FINAL

REMEDIAL INVESTIGATION REPORT

FOR SITE FTMM-02

FORT MONMOUTH, OCEANPORT, MONMOUTH COUNTY, NEW JERSEY

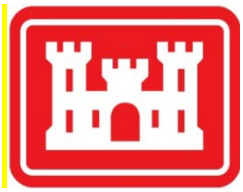
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LIST OF ACRONYMS

ACRONYM	DEFINITION
µg/dL	micrograms per deciliter
µg/L	micrograms per liter
ALM	Adult Lead Model
API	American Petroleum Institute
ARARs	Applicable or Relevant and Appropriate Requirements
ARRCS	Administrative Requirements for the Remediation of Contaminated Sites
ATSDR	Agency for Toxic Substances and Disease Registry
BEE	Baseline Ecological Evaluation
bgs	below ground surface
BRAC	Base Realignment and Closure
Brinkerhoff	Brinkerhoff Environmental Services, Inc.
CEA	Classification Exception Area
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
COCs	constituents of concern
COPC	constituents of potential concern
CSM	conceptual site model
CWA	Charles Wood Area
DDs	Decision Documents
DERP	Defense Environmental Restoration Program
DoD	Department of Defense
EA	Evans Area
EEB	Enzyme-Enhanced Bioremediation
ECP	Environmental Condition of Property
EPA	Environmental Protection Agency
EPC	exposure point concentration
FMETL	Fort Monmouth Environmental Testing Laboratory
FMERPA	Fort Monmouth Economic Redevelopment Planning Authority
FS	feasibility study
ft	feet
ft/day	feet per day
FTMM	Fort Monmouth
GES	Groundwater & Environmental Services, Inc.
GIS	geographic information system
gpd/ft^2	gallons per day per square foot
gpm	gallons per minute
GRAs	general response actions
GWQS	Ground Water Quality Standard(s)
HHRA	human health risk assessment
HDSB	Hazardous Substances Data Bank
HTRW	hazardous, toxic, and radiological waste

ACRONYM	DEFINITION
IC	institutional control
IGW	Impact to Ground Water
IRP	Installation Restoration Program
LUC	land use controls
LTM	long-term monitoring
Kd	soil/water distribution coefficient
Koc	organic carbon/water partition coefficient
MCL	maximum contaminant level
mg/kg	milligrams per kilogram
MNA	monitored natural attenuation
MP	Main Post
msl	mean sea level
MTBE	methyl tert-butyl ether
NCP	National Contingency Plan
NHANES	National Health and Nutrition Examination Survey
N.J.A.C.	New Jersey Administrative Code
NJDEP	New Jersey Department of Environmental Protection
NJPDES	New Jersey Pollutant Discharge Elimination System
NRDCSRS	Non-Residential Direct Contact Soil Remediation Standard
NRWQS	National Recommended Water Quality Standard
O&M	operations and maintenance
ORC	Oxygen Release Compounds
PAHs	polynuclear aromatic hydrocarbons
Parsons	Parsons Government Services Inc.
PCB	polychlorinated biphenyl
PCE	tetrachloroethene
PRG	Preliminary remediation goal
ppt	parts per thousand
ppm	parts per million
R&D	research and development
RAGS	Risk Assessment Guidance for Superfund
RAOs	remedial action objectives
RAPR	remedial action progress report
RAWP	Remedial Action Work Plan
RCRA	Resource Conservation and Recovery Act
RDCSRS	Residential Direct Contact Soil Remediation Standard
RDCSCC	Residential Direct Contact Soil Cleanup Criteria
RI	remedial investigation
RI/FS	remedial investigation/feasibility study
RIR	remedial investigation report
RSL	Regional Screening Level
SI	site investigation
SL	Screening Level

ACRONYM	DEFINITION
SRA	specific response action
SVOCs	Semi-volatile organic compounds
SWQS	Surface Water Quality Standards
TAL	target analyte list
TBA	tert-butyl alcohol
TBC	to be considered
TCE	Trichloroethene
THQ	Target Hazard Quotient
TIC	tentatively identified compound
TO	task order
TPV	total present value
TR	Target Cancer Risk
TRSR	Technical Requirements for Site Remediation
TSCA	Toxic Substances Control Act
UCL	Upper Confidence Limit
USACE	U.S. Army Corps of Engineers
USAEHA	U.S. Army Environmental Hygiene Agency
USAESCH	U.S. Army Engineering and Support Center, Huntsville
USATHAMA	U.S. Army Toxic and Hazardous Materials Agency
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
VOCs	volatile organic compounds
WERS	Worldwide Environmental Restoration Services

EXECUTIVE SUMMARY

E.1 SITE DESCRIPTION

Fort Monmouth Landfill 02 (FTMM-02) is located in the southwest corner of the Main Post (MP) (**Figure 1.1**), south of and adjacent to Mill Creek which flows eastward into Parkers Creek. FTMM-02 was used for the general disposal of domestic and industrial wastes. FTMM-02 was in operation between 1964 and 1968. FTMM-02 is approximately 6.5 acres in size and is currently vacant and covered with vegetation (i.e., grass, trees, and brush). The FTMM Reuse and Redevelopment Plan indicates that the anticipated future land use at FTMM-02 is passive open space (EDAW, Inc., 2008). FTMM (MP and Charles Wood Area [CWA]) was selected for closure by the Base Realignment and Closure (BRAC) Commission in 2005, and officially closed on September 15, 2011.

E.2 GEOLOGY AND HYDROGEOLOGY

The landfill soil cover material ranges in thickness from 0 to 10 feet below ground surface (bgs) and averages 2.4 feet thick. The soil cover is composed primarily of topsoil and brown sand. Deeper soil below the fill material is composed primarily of tan, brown, or grey sand or silty sand with some gravel, and orange and grey silty sand. The fill material encountered during intrusive investigation activities has consisted of plastic bags, metal pieces, plastic, concrete, wire, ash, coal, glass, cans, broken bottles, brick, and ceramic plates. The depth to groundwater at FTMM-02 was observed at a depth of approximately 8 ft bgs. Groundwater at FTMM-02 is estimated to migrate in a northerly direction towards Mill Creek.

E.3 SOIL SAMPLING RESULTS

Soil samples were collected at FTMM-02 between November 1998 and March 2000; sample depths ranged from 6 to 108 inches bgs. Soil samples collected between 6 and 12 inches bgs were analyzed for metals, semi-volatile organic compounds (SVOCs), pesticides, and polychlorinated biphenyl (PCB) compounds. Most samples for analysis of volatile organic compounds (VOCs) were collected at 24 inches bgs, but some were collected from deeper intervals ranging up to 108 inches bgs. Detected analyte concentrations were compared to Federal and State residential, non-residential, and impact to groundwater screening criteria as well as FTMM-specific background concentrations for metals. Residential criteria were used to support identification of constituents of potential concern (COPCs), but were not used to evaluate risk (Section E.8).

Concentrations of one VOC, six SVOCs (all of which are polynuclear aromatic hydrocarbons [PAHs]), three pesticides, five PCBs, and 14 metals exceeded their current New Jersey Department of Environmental Protection (NJDEP) Residential Direct Contact Soil Remediation Standard (RDCSRS) and/or U.S. Environmental Protection Agency (USEPA) Residential Regional Screening Level (RSL) in at least one soil sample. Concentrations of one VOC, five SVOCs, five PCBs, and six metals exceeded their NJDEP Non-Residential Direct Contact Soil Remediation Standard (NRDCSRS) and/or USEPA Industrial Soil RSL in at least one soil sample. Concentrations of 10 VOCs, 15 SVOCs, eight pesticides, five PCBs, and 18 metals exceeded their NJDEP Impact to Ground Water (IGW) Screening Level and/or USEPA Protection of Groundwater RSL in at least one soil sample.

The maximum detected concentrations of each of the metals targeted for analysis in soil samples exceeded the maximum background concentration for the MP presented by Weston (1995) in at least one sample. Therefore, none of the metals can be assumed to be representative of natural background conditions at the soil boring locations.

E.4 GROUNDWATER SAMPLING RESULTS

Quarterly groundwater monitoring occurred at FTMM-02 from May 1997 to August 2011 using a network of up to 24 monitoring wells. Eight quarters of groundwater monitoring data (December 2009 to August 2011) plus the August 2013 Baseline Sampling Event and December 2014 Annual Long-Term Monitoring (LTM) Sampling Event were evaluated as being representative of recent conditions. As recommended in the Final Baseline Groundwater Sampling Report (Parsons, 2014), and approved by NJDEP in a letter "Re: Final Baseline Ground Water Sampling Report (August 2013)" dated July 3, 2014, an annual LTM program for select monitoring wells was continued for VOC analysis at FTMM-02 in 2014. Detected analyte concentrations were compared to Federal and State screening criteria for potable water, as well as FTMM-specific background concentrations for metals to identify COPCs (Section E.8). Concentrations of eight VOCs and 20 metals exceeded the NJDEP Ground Water Quality Standard (GWQS) and/or the USEPA Tapwater RSL in at least one sample.

VOCs detected in groundwater exceeding their GWQS and/or the USEPA Tapwater RSL include 1,1,2-trichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, ethyl benzene, methyl tert-butyl ether (MTBE), tert-butyl alcohol (TBA), and naphthalene. Of these compounds benzene, MTBE, chlorobenzene, naphthalene, and 1,4-dichlorobenzene were retained as COPCs.

The metals detected at concentrations exceeding their NJDEP GWQS and/or USEPA Tapwater RSL and also the maximum background concentration for the MP established by Weston (1995) include antimony, arsenic, barium, beryllium, copper, iron, manganese, mercury, selenium, silver, sodium, and zinc. Other metals that exceeded their NJDEP GWQS and/or USEPA RSL were determined to be representative of background conditions. However, antimony, arsenic, barium, beryllium, copper, mercury, selenium, silver, and zinc were determined to be anomalous occurrences, early occurrences followed by several rounds below maximum background concentration, or exceedances occurred in an upgradient monitoring well; therefore they are not indicative of site contamination. Iron and sodium are essential human nutrients. The remaining metal, manganese was retained as a COPC.

E.5 SURFACE WATER SAMPLING RESULTS

Surface water samples were collected in Parkers Creek, Lafetra Creek, and Mill Creek from October 1996 to September 2010. Five of these sampling stations have historically been associated with FTMM-02 and are located upstream, adjacent to, and downstream of FTMM-02.

The most recent eight quarters (December 2008 through September 2010) of surface water sampling, which include two upstream and one adjacent sampling locations, indicate that only two VOCs (tetrachloroethene [PCE] and trichloroethene [TCE]) were detected at concentrations exceeding the NJDEP Surface Water Quality Standards (SWQS) and no VOC exceeded the USEPA National Recommended Water Quality Criteria (NRWQC). However, PCE and TCE concentrations detected in the Mill Creek surface water originate from an upstream, offsite source. In addition, antimony, arsenic, and mercury were detected at upstream sampling locations of FTMM-02 at concentrations that exceeded their respective NJDEP SWQS and only

arsenic was detected above USEPA NRWQC. The lack of downstream metals data closer to FTMM-02 makes it difficult to discern any site-related impacts. Similar concentrations of these metals were detected at upstream locations during the eight most recent sampling events. FTMM-02 does not appear to be significantly impacting metal concentrations in the reach of Mill Creek that borders this site. Therefore, no constituents are evaluated as COPCs in surface water for the risk assessment.

E.6 SEDIMENT SAMPLING RESULTS

Sediment sampling was conducted in April 2000 in Mill Creek to evaluate potential PCB-related impacts to stream sediments associated with FTMM-02. In the absence of sediment-specific screening criteria, soil criteria were used. No PCBs exceeded their respective NJDEP RDCSRS or NRDCSRS and the USEPA Residential RSLs for total PCBs in the 12 samples collected at and downstream from FTMM-02. Therefore, no COPCs were identified in sediment for the risk assessment.

E.7 CONTAMINANT FATE AND TRANSPORT

Detected constituents of interest in terms of contaminant fate and transport at FTMM-02 include VOCs, SVOCs, pesticides, PCBs, and metals in vadose zone soil. VOCs in vadose zone soil are expected to have a low persistence and moderate to high mobility. In contrast, SVOCs, pesticides, PCBs, and metals in near-surface soil at FTMM-02 are expected to be persistent and immobile, limiting their impact on groundwater quality.

VOCs that dissolve into groundwater are expected to be moderately to highly mobile and transported laterally with advective groundwater flow, although some sorption to aquifer matrix materials will occur. Highly chlorinated solvents such as PCE and TCE have a higher sorption potential than less chlorinated solvents such as vinyl chloride, and the migration of PCE in groundwater will be more retarded as a result. VOCs will be subject to non-destructive attenuation processes in the saturated zone (i.e., diffusion, dilution, dispersion) and therefore will decrease in concentration over time regardless of their destructive attenuation rates (e.g., via biodegradation).

E.8 RISK ASSESSMENT

According to the Baseline Ecological Evaluation (BEE), exceedances of ecological screening criteria have been sufficiently evaluated and addressed for ecological consideration, and no additional ecological evaluation is necessary. Therefore, further ecological risk evaluation was not conducted for FTMM-02.

An evaluation of the potential risk resulting from human exposure to contaminants in soil, surface water, sediment, and groundwater was conducted as part of this remedial investigation (RI). No COPCs were identified in surface water or sediment. Therefore, further evaluation of surface water and sediment in the baseline risk assessment was not conducted and no unacceptable risk associated with exposure to surface water or sediment is expected. The human health risk assessment (HHRA) evaluates exposure of current/future outdoor workers, future utility workers, and future recreational users to COPCs in soil and groundwater through dermal contact, incidental ingestion, and inhalation of particulates. The HHRA used an exposure point concentration based on the maximum detected concentration or the 95 percent upper confidence limit on the mean (95% UCL) for soil and the maximum detected concentration from any well

for groundwater. In accordance with USEPA guidance on the evaluation of lead, lead in soil was evaluated separately from the other constituents.

For outdoor workers exposed to soil at FTMM-02, the cumulative carcinogenic risk of 9×10^{-5} is less than 1×10^{-4}, above which a remedial action may be required. The cumulative non-carcinogenic hazard is 0.8, which is less than the cumulative hazard goal of 1. Therefore, no potential non-carcinogenic or carcinogenic effects to outdoor workers are expected from exposure to soil at FTMM-02.

For utility workers exposed to soil at FTMM-02, the cumulative carcinogenic risk of 1×10^{-6} is less than 1×10^{-4}, above which a remedial action may be required. The cumulative non-carcinogenic hazard is 0.3, which is less than the cumulative hazard goal of 1. Therefore, no potential non-carcinogenic or carcinogenic effects to utility workers are expected from exposure to soil at FTMM-02.

For recreational users exposed to soil at FTMM-02, the cumulative carcinogenic risk of 3×10^{-5} is less than 1×10^{-4}, above which a remedial action may be required. The cumulative non-carcinogenic hazard is 0.1, which is less than the cumulative hazard goal of 1. Therefore, no potential non-carcinogenic or carcinogenic effects to recreational users are expected from exposure to soil at FTMM-02.

The calculated non-carcinogenic hazards for lead are 0.08, 0.05, and 0.02 for outdoor workers, utility workers, and recreational users, respectively. Lead hazards at FTMM-02 are less than the hazard goal of 1. Therefore, no effects to human receptors are expected from exposure to lead in soil at FTMM-02.

For utility workers exposed to groundwater, the cumulative carcinogenic risks for all wells is 7×10^{-9}, which is less than 1×10^{-4}, above which a remedial action may be required. The cumulative non-carcinogenic hazard for all wells is 0.02, which is less than the cumulative hazard goal of 1. Therefore, no potential non-carcinogenic or carcinogenic effects to utility workers are expected from exposure to groundwater at FTMM-02.

E.9 CONCLUSION

The RI concluded that risks to human health and the environment from soil are within acceptable ranges. A feasibility study (FS) was not performed for FTMM-02. No further action is required at FTMM-02 under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).

Although risks from soil, which included an assessment of PCBs in soil, are within acceptable ranges, there are areas at FTMM-02 where PCBs were detected. The presence of PCBs in soil requires further consideration based on the NJDEP Guidance on Coordination of NJDEP and USEPA PCB Remediation Policies (NJDEP, 2013). NJDEP Site Remediation Program (SRP) policy allows for contaminants with appropriate institutional and engineering controls to be non-permanently remediated as long as the remedy is found to be protective of human health and the environment. Cleanup requirements under the Toxic Substances Control Act (TSCA) are triggered if PCB contamination is $\geq$ 50 parts per million (ppm). The TSCA regulations specify the level of cleanup depending on site media and future occupancy levels. Under these regulations, the USEPA considers sites such as FTMM-02 to be remediated if PCB concentrations do not exceed 1 ppm or if the final remedial levels are > 1 ppm and $\leq$ 25 ppm and

the site is covered with an appropriate cap. Therefore, a limited PCB excavation will be conducted at FTMM-02 to remove soils with PCB concentrations in excess of 25 ppm. A pre-design investigation (PDI) will be conducted prior to a limited PCB removal action to determine lateral and vertical extent of PCB concentrations greater than 25 ppm.

After removal of isolated areas with concentrations of PCBs exceeding 25 ppm, to address safety concerns, a vegetated soil cover or functional equivalent will be placed over the landfill area after the landfill is regraded. The vegetated soil cover or functional equivalent will provide safety protection for future non-residential use and improve drainage. The soil cap will be placed consistent with the NJDEP Solid Waste regulations (New Jersey Administrative Code [N.J.A.C.] 7:26-2A). Additional soil will be added to the existing soil cover to provide a minimum of two feet of clean soil between the ground surface and landfilled debris.

Prior to designing and placing the cap, refinement of the landfill boundary will be performed to investigate the data gaps identified in this RI. The refinement of landfill boundaries is on-going, field work was completed in September 2015, and the results will be presented under separate cover. The existing landfill surface will be clear cut and regraded prior to the installation of a vegetated native soil cover or functional equivalent. The vegetated cover or functional equivalent will offer safety protection to non-residents from future exposure to solid waste at the landfill and to control surface water runoff and erosion.

Land Use Controls (LUCs) to maintain the soil cover and prevent residential land use will also be implemented at FTMM-02. The Army will prepare a LUC Implementation Plan during the remedial design phase to document the institutional controls (ICs), location of the engineering control (EC) and identify procedural responsibilities including landfill cover inspections, monitoring and reporting, and long-term management requirements. The Army will be responsible for documenting and implementing the LUCs and will also be responsible to conduct regular reviews to ensure that the LUCs remain protective of human health and the environment. It is expected that the LUCs will take the form of a deed notice. When the property is transferred to private ownership, the LUCs will be incorporated into the title and the new owner will be responsible for complying with the LUCs. Although the Army may later transfer its procedural responsibilities to another party by contract, property transfer agreement, or through other means, the Army shall retain ultimate responsibility for remedy integrity.

In addition, the existing Classification Exemption Area (CEA) accepted by the NJDEP in January 2001(updated in 2011) for FTMM-02 will be revised accordingly. The CEA will remain in place until NJDEP GWQS are achieved at the Site.

SECTION 1
INTRODUCTION

1.1 PROJECT AUTHORIZATION

Parsons Government Services Inc. (Parsons) is serving as the prime contractor to the Corp of Engineers, New York District, U.S. Army Engineering and Support Center, Huntsville (USAESCH) for preparation of Remedial Investigations (RI) or Remedial Investigation/Feasibility Study (RI/FS) reports to achieve acceptance of Decision Documents (DDs) at the Fort Monmouth (FTMM) site in Oceanport, Monmouth County, New Jersey. This project is being performed under task order (TO) 0012 issued under the Worldwide Environmental Restoration Services (WERS) contract number W912DY-09-D-0062.

This TO was issued to address a number of environmental sites at FTMM that are in various stages of hazardous, toxic, and radiological waste (HTRW) investigation and remediation. Specific activities that will be performed under this TO include:

1. Performance of RIs and FSs and preparation of RI and RI/FS reports to achieve acceptance of DDs in compliance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), National Contingency Plan (NCP), 40 Code of Federal Regulations (CFR) Part 300 and to the extent possible to meet the substantive remedial requirements of New Jersey Administrative Code (N.J.A.C.) 7:26E Technical Requirements for Site Remediation (TRSR); and
2. Supporting the closure of environmental sites to facilitate the efficient transfer of real property to other parties.

1.2 PURPOSE AND SCOPE

Parsons has prepared this RI report for landfill site FTMM-02 based on historical site characterization activities performed from 1994 to 2014. The report provides relevant site background information, characterizes the nature and extent of site-related contamination, evaluates the potential risk to human health, environment, and (if needed) evaluates remedial alternatives, and provides a comparative analysis of remedial alternatives. The overall goal of this process is to obtain stakeholder concurrence on a final report for each site, and if appropriate, provide sufficient data to facilitate future remedial action or administrative closure. The NJDEP is the lead regulatory agency for FTMM and will provide regulatory review of this document.

1.3 SITE BACKGROUND INFORMATION

The following sections describe the site background. Included is a description of the site location, site history, background investigations, and summary of previous technical reports.

1.3.1 Site Location and Description

FTMM is located in the central-eastern portion of New Jersey in Monmouth County, approximately 45 miles south of New York City, New York, 70 miles northeast of Philadelphia, Pennsylvania, and 40 miles east of Trenton, New Jersey. The Atlantic Ocean is approximately 3 miles to the east. FTMM was comprised of three areas: the Main Post (MP), the Charles Wood Area (CWA), and the Evans Area (EA) (**Figure 1.1**). The areas of the MP and CWA are 637

acres and 489 acres, respectively. The EA (not shown on **Figure 1.1**) was located approximately 8 miles to the south of the MP and CWA and was formerly used for administration, research and development (R&D), and some training. FTMM's MP and CWA were selected for closure by the BRAC Commission in 2005, and officially closed on September 15, 2011. The EA was closed under BRAC 1998 and has been transferred from FTMM. FTMM falls within the Boroughs of Eatontown, Oceanport, and Tinton Falls. The MP is in the Eatontown and Oceanport Boroughs. The CWA is in the Eatontown and Tinton Falls Boroughs.

Figure 1.2 shows the location of the FTMM-02 landfill, which is in the southwest corner of the MP, south of and adjacent to Mill Creek which flows eastward into Parkers Creek. The landfill is approximately 6.5 acres in size and is bounded to the north by Mill Creek, to the east by Building 1122, to the west by an open grassed area, and to the south by an abandoned railroad track bed. The site layout is depicted on **Figure 1.3**. FTMM-02 has also been referred to as Landfill 2 and Landfill M-2 in historical documents.

1.3.2 Site History

FTMM-02 was in operation between 1964 and 1968 and was reportedly used for the general disposal of domestic and industrial wastes. Types of wastes reportedly disposed at FTMM-02 include oil cans, oil burner filters, and soot. The banks along Mill Creek towards the west end of the landfill were reportedly covered with building rubble (concrete and cinder blocks) to stabilize the bank (U.S. Army Toxic and Hazardous Materials Agency [USATHAMA, 1980]). A chronological summary of events related to the environmental characterization and remediation of FTMM-02 is provided in **Table 1.1** and detailed in this subsection.

Suspected hazardous waste sites were initially identified at FTMM in a report prepared by USATHAMA (1980). The purpose of the report was to assess the environmental quality of FTMM with regard to the use, storage, treatment, and disposal of toxic and hazardous materials. Thirty-seven sites at the MP, CWA, and EA were identified as having known or suspected waste material, including FTMM-02. The report recommended that FTMM perform surface water and groundwater sampling at the installation's landfills and report the results to USATHAMA.

A follow-up evaluation was completed by USATHAMA (1988) to determine if environmental/hazardous waste disposal conditions at FTMM (including the landfills) had changed since the assessment in the USATHAMA (1980) report. Based on an assessment of available data, it was recommended that USATHAMA not conduct a SI, but surface water and groundwater sampling at the MP landfill areas (including FTMM-02) should be continued (USATHAMA, 1988). Several studies were summarized or mentioned in this report including a landfill study performed by William F. Cosulich Associates, P.C. (Cosulich), a water quality engineering study by the U.S. Army Environmental Hygiene Agency (USAEHA), and several monitoring studies (USAEHA, 1985; NJDEP, 1985; USAEHA, 1986; and RCA Services Company, 1986).

Cosulich conducted a landfill study in 1980 identifying five locations that were considered to be major landfill areas. One of the five locations, Area D, includes FTMM-02. Monitoring wells were installed and groundwater and surface water samples were collected and analyzed for compliance with National Interim Primary Drinking Water Standards and National Secondary Drinking Water Regulations. The study concluded that the targeted parameters were not found at sufficiently elevated concentrations to cause degradation to groundwater or surface water, but it

was recommended FTMM submit a landfill registration statement to the NJDEP (USATHAMA, 1988).

A USAEHA water quality engineering study was conducted in 1984 to determine if landfill leachate was forming and entering streams. Surface water samples were collected in Mill Creek adjacent to FTMM-02. The sampling results indicated that the landfill's impacts to the stream were minimal (USATHAMA, 1988). It was recommended that the results be presented to the NJDEP in compliance with the New Jersey Pollutant Discharge Elimination System (NJPDES).

A Site Investigation (SI) (Weston 1995; provided in **Appendix A**) was performed at FTMM-02, which included the installation of three shallow groundwater monitoring wells in 1994, and performance of two rounds of groundwater sampling in February and March 1995. The results of the groundwater sampling were presented in the SI report (Weston, 1995). The SI presented a proposal for long-term groundwater and surface water monitoring that utilized the existing groundwater monitoring wells and surface water sampling locations to monitor and document downgradient surface water and groundwater quality conditions over time.

Groundwater sampling was performed from 1997 to 2000 in the three wells installed at FTMM-02 in 1994 (M2MW01, M2MW02, and M2MW03). An additional 21 wells were installed between 1997 and 2000, bringing the total number of monitoring wells to 24 at FTMM-02, and these wells were used for quarterly groundwater sampling (Versar, 2001; provided in **Appendix A**). The wells were installed to characterize the shallow groundwater at two distinct depth intervals: approximately 13 to 22 ft bgs, a depth interval considered to be within the fill, and 30 to 50 ft bgs, a depth considered to be below any fill material. Sampling at M2MW04 began in February 1998, followed by M2MW05 through M2MW10 in October 1998. Sampling at M2MW11 through M2MW24 did not begin until May 2000. Quarterly groundwater monitoring was performed at the site from May 1997 to August 2011. **Figure 1.3** shows the locations of groundwater monitoring wells associated with FTMM-02.

Since October 1996, three surface water samples have been collected quarterly in the vicinity of the landfill. In October 2000, two new locations were added to the surface water LTM program. As part of the 1999-2000 PCBs investigation, 12 sediment samples were collected from Mill Creek adjacent to FTMM-02 (Versar, 2001).

Near-surface soils were characterized in 1999 by analyzing soil samples collected on a grid pattern within the boundaries of FTMM-02. The results of soil sampling were documented in an RI Report (Versar, 2004b; provided in **Appendix A**).

An investigation of deeper soils for VOCs (benzene and chlorobenzene) was performed as part of an RI in March 1999 through January 2000. Samples were analyzed using a grid-like pattern within the boundaries of FTMM-02, with depths ranging from 1 foot to 9 ft bgs. One sample per location was collected based on field observations including photoionization detector (PID) readings, or just above the water table, and analyzed for VOCs. The results of soil sampling were documented in a *Remedial Investigation Report (RIR) and Remedial Action Work Plan (RAWP), Landfill M-2* (Versar, 2001; provided in **Appendix A**).

The RIR (Versar, 2001) also included a more focused polychlorinated biphenyl (PCBs) soil investigation to investigate one area in the eastern portion of the landfill in the vicinity of M2MW23 and a second area in the western portion of the landfill in the vicinity of M2MW02. Samples were collected along a grid continuously every six inches from the ground surface to the

groundwater table, approximately 8 ft bgs. The results of soil sampling were documented in an RIR and RAWP (Versar, 2001; provided in **Appendix A**).

A Classification Exception Area (CEA) report for FTMM-02 was prepared by Versar (2001) and approved by NJDEP on January 31, 2001 due to detected concentrations of benzene and chlorobenzene in groundwater samples that exceeded NJDEP Ground Water Quality Standards (GWQS). The CEA extends to depth of 50 feet (ft) bgs and encompasses an area delineated by the landfill boundaries. The projected duration of the CEA was 4 years for benzene and 9 years for chlorobenzene (however, it remains in effect today as described below). This report is in Appendix H of the RIR and RAWP (Versar, 2001), which is included in **Appendix A** of this report. The area of the CEA is currently depicted on the NJDEP Geoweb Map Viewer.

The FTMM-02 landfill boundaries were initially determined through a review of aerial photographs of the MP from 1940 to 1974 and the 1999 near surface soil RI. The boundary was reassessed during a 2008 and 2010 investigation that consisted of excavating 40 test pits and reviewing boring logs from 213 locations to determine the presence or absence of landfill debris, and the thickness of the cover material. The investigation was undertaken in order to more precisely delineate the perimeter of the landfill. Test pit depths ranged from 1 to 8 feet bgs. The thickness of cover material at 213 locations ranged from 0 to 10 feet and averaged 2.4 feet (see Table 5/Cover Material Summary for the Landfill Delineation Project in **Appendix A**). Waste material observed in the test pits included wood, cinders, asphalt, ash, ceramic plates, slag, brick, glass, broken bottles, cans, wires, plastic, concrete, and metal pieces. The landfill boundary delineation activities concluded that FTMM-02 boundaries were not defined on the southern part of FTMM-02 directly along the former railroad line and recommended supplemental borings/test pits to be performed in order to complete the delineation. The result of the delineation investigation was included in Appendix B of a March 2012 Remedial Action Progress Report ([RAPR], U.S. Army 2012), which is included in **Appendix A** of this report. The 2010 landfill boundary is depicted on **Figure 1.3.**

The landfill boundaries were reexamined by Parsons in 2015 using the available test pit and soil boring data, as well as historical aerial photographs (**Appendix A**). The test pit logs were reexamined to confirm the accuracy of the waste determination (as shown on **Figure 1.3**), and the aerial photographs were reviewed to confirm any visible signs of landfill activities. Following the reexamination, the boundaries of Landfill FTMM-02 were refined in a few areas but remained generally similar to how they were defined in 2010. The most significant refinement was made to the southern boundary of the landfill, which, based on aerial photographs, was moved north to correspond with the northern edge of the abandoned raised railroad bed. The photographs from 1947, 1957, 1963, 1969, 1970, 1979, and 2007 depict the progression of suspected filling activities that occurred to produce the FTMM-02 landfill (**Appendix A**). The landfill clearly postdated the construction of the raised railroad bed in these photographs, and this physical boundary formed the southern boundary of the landfill. The presence of ash, unused coal, ceramics, and glass at shallow depth in test pits performed in the raised railroad bed and to the south are attributed to the material used to construct the raised rail bed, remnants from the trains themselves, and/or disposal of household items by residence of Rose Court. These items do not represent filling related to the formation of FTMM-02. Also, the aerial photographs depict the persistence of an elongate area of low brush vegetation and trees along the southwestern boundary, and thus landfilling related to FTMM-02 is believed to not have extended into this elongate area. The FTMM-02 landfill boundary was revised to reflect the

persistence of this area of brush vegetation and trees. The 2015 revised boundary is shown on **Figure 1.3**. Confirmation of this southwestern boundary will be performed through a landfill refinement investigation. Field work was performed for the refinement of landfill boundaries in September 2015 and results will be documented under separate cover.

A biennial CEA Certification Report for the 2001 CEA was prepared by Brinkerhoff Environmental Services, Inc. (Brinkerhoff, 2011b) to address concentrations of benzene, chlorobenzene, and tert-butyl alcohol (TBA) in groundwater. The biennial certification noted that a revision to the CEA was necessary due to TBA, and based on the findings of the biennial certification, a CEA report was prepared in June 2011(Brinkerhoff, 2011c) to revise the CEA. The vertical extent of the CEA was revised to 20 ft bgs, and the horizontal extent of the CEA encompassed a rectangular, 5.8-acre area, which follow approximately the FTMM-02 landfill boundaries. The revised CEA added TBA and proposed a duration of seven years for benzene (September 2010 to September 2017), two years for chlorobenzene (September 2010 to September 2012), and 15 years for TBA (September 2010 to September 2025). The biennial CEA Certification report and CEA Report were included in Appendix O of the March 2012 RAPR (U.S. Army, 2012) and are presented in **Appendix A**. It appears that the revised CEA report was submitted to the NJDEP based on information contained in the NJDEP Geoweb Map Viewer.

In October 2002, the NJDEP approved the implementation of an Enzyme-Enhanced Bioremediation (EEB) program, supplemented by Oxygen Release Compounds (ORC), to remediate benzene and chlorobenzene identified in shallow groundwater at FTMM-02. The EEB program was documented in the January 2001 RIR/RAWP (Versar, 2001). The EEB/ORC program targeted six distinct areas in and around the FTMM-02 site where elevated concentrations of benzene and chlorobenzene were detected in the shallow groundwater. Four ORC injections events were performed at the landfill from March 2001 through July 2005 (U.S. Army, 2012; provided in **Appendix A**).Environmental investigations performed at FTMM-02 are summarized in greater detail in Section 2, and the nature and extent of contamination detected during the environmental investigations are summarized in Section 4.

1.4 REPORT ORGANIZATION

This RI report is organized to be compliant with relevant portions of the outline presented in the *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA* (USEPA, 1988).

- Introduction: Section 1 details the overall scope and objective of the project, presents the organization of the report, and presents an overview of the site and its history, including previous investigations;
- Previous Investigations and Interim Remedial Actions: Section 2 details the site characterization field activities and interim remedial actions that have been performed;
- Physical Characteristics of the Site: Section 3 describes the physical setting of the site, including surface features, surface water hydrology, geology and hydrogeology, land use, and ecological setting;

- Nature and Extent of Contamination: Section 4 summarizes the degree to which sampled media have been impacted by site-related contamination, and identifies those constituents that were detected above applicable cleanup criteria but are believed to be representative of natural background concentrations;
- Contaminant Fate and Transport: Section 5 describes the migration and fate of selected constituents present in the subsurface based upon site-specific data, the geologic and hydrogeologic characteristics of the site, and the physicochemical properties of the constituents;
- Baseline Risk Assessment: Section 6 provides a quantitative assessment of the risk posed by site-related constituents of potential concern (COPCs) to potential human receptors;
- Remedial Investigation Summary: Section 7 summarizes the main findings of the RI;
- Conclusion: Section 8 presents the conclusion and details reasons why a feasibility study is not necessary; and
- References: Section 9 includes a list of references used in the preparation of this report.

Additional information is attached to this work plan as appendices:

- **Appendix A** – Key historical reports and background information (also included electronically on CD);
- **Appendix B** – Utility Worker and Recreational User Screening Level Equations and Calculations; ProUCL Output (included only electronically on CD); and
- **Appendix C** – Cost Estimate.

SECTION 2
PREVIOUS INVESTIGATIONS AND INTERIM REMEDIAL ACTIONS

2.1 GEOLOGIC/HYDROGEOLOGIC INVESTIGATIONS

The geologic and hydrogeologic characteristics of FTMM have been investigated during numerous historical installation-wide and site-specific environmental studies. The primary methods of geologic/hydrogeologic investigation at FTMM-02 have consisted of describing soils encountered while during monitoring well drilling, measuring water levels in site monitoring and recovery wells, and constructing potentiometric surface (i.e., groundwater surface elevation contour) maps indicating the direction and magnitude of the horizontal hydraulic gradient.

2.2 SOIL AND VADOSE ZONE INVESTIGATIONS

Soil samples were collected at FTMM-02 between November 1998 and March 2000 as part of the RIR and RAWP (Versar, 2001). The RIR included a near-surface soil investigation, PCB investigation, and focused VOC investigation. The results of the near-surface soil investigation were published separately in the Remedial Investigation Report for Near-Surface Soils, M-2 Landfill Site (Versar, 2004b).

The Army characterized near-surface soils using borings installed throughout the site. The Army advanced 193 soil borings (B-4 through B-6, B-13 through B-15, B-19 through B-21, B-25 through B-27, and B-31 through B-211) and collected soil samples from each boring from November 1998 to June 1999. Each of the soil samples, except those collected for VOC analysis, were collected between approximately 0.5 and 1 feet bgs. VOC samples were collected at approximately 2 feet bgs since surface soils would not be expected to retain volatile constituents over time. A total of 390 soil samples were analyzed for VOCs, SVOCs, pesticides, PCBs, and target analyte list (TAL) metals. Laboratory analyses were conducted at the Fort Monmouth Environmental Testing Laboratory (FMETL), a New Jersey certified laboratory (Certification No. 13461). The locations of the borings were established in a grid-like pattern as shown on **Figure 2.2**. Although separate samples were collected at deeper intervals, some of the soil borings (B-31 through B-118) were shared with the VOC soil investigation conducted for the RIR and RAWP (Versar, 2001).

A soil investigation was conducted to delineate VOC (benzene and chlorobenzene) concentrations in the soil and shallow groundwater of FTMM-02. Samples were collected continuously from the ground surface to the groundwater table, which was approximately 8 ft bgs. A total of 208 Geoprobe® soil samples were collected from March 1999 through January 2000 as a part of the investigation for the analysis of VOCs at depths ranging from 1 foot to 9 ft bgs. Borings B-31 through B-118 were shared with the near-surface soil investigation, additionally the boring series B-64A through B-69H and B-113A through B-119C were sampled as part of the sampling VOC investigation. The locations of the borings are shown on **Figure 2.2**. One sample per location was collected based on field observations including PID readings, or just above the water table, and analyzed for VOCs.

The RIR (Versar, 2001) also included a more focused PCBs soil investigation to investigate one area in the eastern portion of the landfill in the vicinity of M2MW23 and a second area in the western portion of the landfill in the vicinity of M2MW02. The Army advanced 73 Geoprobe® borings in the eastern and westerns portions of FTMM-02 in February 1999. Samples were

collected along a grid continuously every six inches from the ground surface to the groundwater table, approximately 8 ft bgs. A total of 622 soil samples (and 25 duplicate samples) were collected and analyzed for total PCBs. The locations of the borings are shown on **Figure 2.1**.

The landfill site boundary (**Figure 1.3**) is based on the near-surface soil RI report (Versar, 2004), a landfill cover requirements report (Brinkerhoff, 2011), and a review of historical data and aerial photos by Parsons in 2015. **Figure 2.1** depicts the current understanding of the FTMM-02 landfill boundary, the soil boring locations, and the test pit locations used for the delineation of the landfill.

2.3 GROUNDWATER INVESTIGATIONS

2.3.1 Monitoring Wells

Groundwater monitoring wells were installed at FTMM-02 to determine if leachate from the landfill was impacting groundwater quality. Well construction details are provided in **Table 2.1**, and the scope of the groundwater monitoring program from 1998 to 2014 is summarized in **Table 2.2**. Well locations are shown on **Figure 1.3**.

In December 1995, as part of a SI, three shallow groundwater monitoring wells (M2MW01 through M2MW03) were installed and two rounds of groundwater sampling were conducted in February and March 1995 (Weston, 1995). Groundwater samples were analyzed for VOCs, SVOCs, pesticides, PCBs, TAL metals, and cyanide. The results of the groundwater sampling were presented in the SI report (Weston, 1995). Based on the findings of the SI, the Army implemented a long-term groundwater monitoring program.

An additional seven wells (M2MW04 through M2MW10) were installed during the fourth quarter of 1997 and third quarter of 1998. The final 14 wells (M2MW11 through M2MW24) were installed during the PCB investigation performed in April and May 2000 (Versar, 2001). Groundwater sampling was conducted quarterly from December 1997 through July 2011 and in August 2013. Groundwater samples were analyzed for TAL metals, VOCs, pesticides and SVOCs until June 2004 (**Table 2.2**) when the groundwater LTM sampling program was reduced to 16 wells (M2MW02 through M2MW13 and M2MW21 through M2MW24) and samples were analyzed for VOCs only.

Groundwater samples collected in August 2013 were analyzed for VOCs and pesticides. Results of the 2013 sampling event were reported in the Final August 2013 Baseline Groundwater Sampling Report (Parsons, 2014), which recommended the continuation of annual groundwater sampling for VOCs at select monitoring wells. The NJDEP approved the recommendation for FMM-02 in a letter dated July 3, 2014, Re: Final Baseline Groundwater Sampling Report (August 2013).

2.3.2 Groundwater Grab Sample Investigations

Groundwater grab sample investigations were conducted in conjunction with the PCBs and VOCs soil investigations:

- 45 groundwater grab samples of the 73 Geoprobe® soil borings were collected on both PCBs investigation areas (see **Figure 2.1**) and submitted for total PCB analysis (Versar, 2001); and

- 185 groundwater grab samples were collected from each of the Geoprobe® locations (see **Figure 2.2**) and submitted for VOC analysis using USEPA Method 624 (Versar, 2001).

2.4 SURFACE WATER INVESTIGATIONS

Surface water samples were collected from a location on the upstream end of the site (similar to SS-23) and a downstream location (similar to SS-24) at FTMM-02 during the SI (Weston, 1995; provided in **Appendix A**) (current locations are shown on **Figure 2.3**). The sampling locations were considered freshwater, and the analytical results for VOCS, SVOCs, pesticides/PCBs, total TAL metals, soluble metals, and cyanide were compared to NJDEP fresh water surface water criteria. High tide salinity measurements for the surface water in Mill Creek at FTMM-02 presented in the Baseline Ecological Evaluation (BEE) Report (Shaw, 2012) indicate that the reach of Mill Creek adjacent to FTMM-02 has an overall site average high tide salinity of 3.4 parts per thousand (ppt), which classifies it as freshwater. Between October 1996 and September 2010, quarterly sampling events were conducted that included at least three surface water samples in the vicinity of FTMM-02 (Table 2.3). Between October 1996 and March 2000, SS-13, SS-15, and SS-16 were collected quarterly in the vicinity of the landfill. In October 2000, two new locations (SS-23 and SS-24) were added to the surface water LTM program. In August 2004, surface water locations SS-16 and SS-23 were removed from the LTM program, leaving SS-13, SS-15, and SS-24 as the sampling locations until the quarterly sampling program ended in September 2010. Surface water samples were analyzed for VOCs only until 2000, when pesticides and PCBs were added at SS-15 and SS-16. In November 2004, metals were added to the parameter list at SS-15. Pesticides and PCBs were dropped from the program in March 2009. The scope of the surface water monitoring program from 1996 to 2010 is summarized in **Table 2.3**. Surface water sampling locations are shown on **Figure 2.3**. Sampling results have been summarized by U.S. Army (2012).

2.5 SEDIMENT INVESTIGATIONS

The FTMM Directorate of Public Works (DPW) initiated a sediment sampling investigation in the second quarter of 2000 to evaluate potential impacts to stream sediments adjacent to the MP landfill sites. FTMM-02 was included in the sediment sampling program to supplement previous characterization results for soil, surface water, and groundwater (Versar, 2001).

To determine if there were PCB-related impacts to sediments in Mill Creek from FTMM-02, the Army collected 13 surface (0-0.5ft bgs) and 13 near-surface (0.5-1 ft bgs) samples in Mill Creek in April 2000 including one duplicate sample (sampled at 0-0.5 ft bgs and 0.5-1ft bgs) for quality assurance/quality control (QA/QC) purposes. The locations sampled were B-1 through B-12. Twelve sediment sampling locations (two depth intervals sampled per location) were collected along Mill Creek adjacent to FTMM-02 as shown on **Figure 2.3**. The 26 sediment samples were analyzed for total PCBs and compared by Versar (2001) to sediment sampling guidance concentrations defined in the NJDEP's (1998) *Guidance for Sediment Quality Evaluations*. Data collected during this investigation is discussed in Section 4.4.

2.6 ECOLOGICAL INVESTIGATIONS

A Baseline Ecological Evaluation (BEE) report (Shaw, 2012; provided in **Appendix A**) was performed at the MP and CWA to fulfill requirements set forth in NJDEP's TRSR (N.J.A.C. 7:26E-5.3 as cited in a previous version of the TRSR). The BEE is Tier I of the ecological

evaluation and ecological risk assessment process as developed by the Site Remediation Program, and is defined in the TRSR and Site Remediation News (NJDEP, 1997). The objective of the BEE at FTMM was to examine each of 23 identified sites (eight Environmental Condition of Property [ECP] parcels and 15 Installation Restoration Program [IRP] sites). The BEE was developed to be an efficient and cost-effective screening process. As such, the results of a BEE are used to determine whether potential ecological impacts are negligible or whether more site-specific ecological evaluation is warranted.

The NJDEP has accepted the 2012 BEE report's recommendations and conclusions and concurs that no further evaluation of ecological risk is required. Therefore, based on the recommendation of the 2012 BEE report, no further ecological risk assessment was conducted for FTMM-02. Additional ecological information pertinent to this site was obtained from the BEE report and is summarized in Section 3.5.

2.7 PREVIOUS INVESTIGATIONS OF BACKGROUND SOIL, GROUNDWATER, AND SURFACE WATER QUALITY

2.7.1 Weston (1995) Background Investigation

Weston (1995) collected 10 soil and 10 groundwater samples on both the CWA and MP to determine concentrations of constituents that occur naturally or as a result of activities unrelated to FTMM. Background sampling locations were selected as specified in the document *Investigations of Suspected Hazardous Waste Sites at Fort Monmouth, New Jersey* (Weston, 1993), which was approved by NJDEP. The resulting background data set was found to be neither normally or log-normally distributed; therefore, the tolerance interval method for determining representative background concentrations described in the then-current version of the USEPA document *Statistical Analysis of Groundwater Monitoring Activities at RCRA Facilities* (USEPA, 2009) was not used. Weston (1995) states that nonparametric methods that are similar to the tolerance interval method involve selecting the data value that is at the 95th percentile of the data set. Because there were 10 data points, the equivalent method for the FTMM background data set was to use the maximum value. An outlier screening was conducted to identify background concentrations that were inconsistent with the rest of the data set. Based on the screening, outliers were identified for beryllium, chromium, cobalt, lead, vanadium, and zinc in MP groundwater, and manganese in CWA soil. These outliers were eliminated from the data set.

In addition, Weston (1995) identified maximum background values for Monmouth County based on published data. The Monmouth County background concentrations for soils were based on analyses of samples from the vicinity of FTMM. Weston (1995) also provides results for two background surface water and sediment samples that were collected at the MP in areas not expected to be affected by base activities. These samples were collected from Mill and Lafetra Creeks at the western (upstream) edge of the MP.

2.7.2 Brinkerhoff (2011) Background Evaluation

Brinkerhoff (2011a) performed an evaluation to achieve the following objectives:

- Document the presence of naturally occurring metals in groundwater;

- Identify various conditions which are likely to have resulted in exceedances of NJDEP GWQS by concentrations of various metals detected in groundwater at FTMM; and
- Develop a strategy for determining which sites contain metal concentrations in groundwater that represent site-related contamination.

For FTMM-02, Brinkerhoff (2011a; provided in **Appendix A**) calculated the 90th percentile values for metals using groundwater quality data collected from March 2009 through September 2010, and determined that the 90th percentile values for barium, beryllium, chromium, copper, nickel, and thallium were less than the GWQS for these metals. Based on this calculation, Brinkerhoff (2011a) recommended no further sampling of groundwater for metals with 90th percentile values less than the GWQS.

2.7.3 Base-Wide Glauconitic Soil Sampling Report

Previous studies have documented the presence of elevated naturally-occurring metal concentrations (e.g., arsenic, beryllium, lead) in glauconitic soils such as those present within the New Jersey Coastal Plain physiographic province (Dooley, 2001; U.S. Geological Survey [USGS], 1984). In an effort to confirm and document that select metals detected in groundwater on the MP are naturally associated with glauconitic soils, the FTMM DPW (FTMM, 2011) conducted a soil and groundwater sampling investigation to determine whether naturally occurring metals in soil are causing metal concentrations in groundwater to exceed the NJDEP GWQS. According to Jablonski (1968) the Red Bank and Tinton Sands that outcrop at the MP contain glauconite. Minard (1969) states that glauconite may comprise 60 to 80 percent of the sand fraction in the upper portion of the Tinton Sand.

Six co-located soil and low-flow groundwater samples (unfiltered) were collected at three sites and analyzed for total TAL metals. The study concluded that arsenic and lead co-exist as naturally occurring metals that are unrelated to any documented source at any of the sampled sites. The study also concluded that arsenic in groundwater, which was detected at concentrations exceeding the NJDEP GWQS of 3 micrograms per liter (µg/L) in three of the six samples, is due to natural conditions rather than man-made/anthropogenic sources (FTMM, 2011).

SECTION 3
PHYSICAL CHARACTERISTICS OF THE SITE

3.1 SURFACE FEATURES

FTMM-02 is located at the southwest corner of the MP, south of and adjacent to Mill Creek. The ground surface topography at FTMM-02 is relatively flat at an elevation of less than 20 feet above mean sea level (msl) and (Versar, 2004b).

3.2 SURFACE-WATER HYDROLOGY

Surface water runoff from the western part of the MP flows into the Lafetra Creek to the north or into Mill Creek to the south. Both Mill Creek and Lafetra Creek originate off-post. Mill Creek flows along the southern boundary of the MP and Lafetra Creek forms the northern boundary of the MP and joins Mill Creek to form Parkers Creek (**Figure 2.3**). Parkers Creek flows eastward along the northern boundary and joins Oceanport Creek east of the post. Most of Husky Brook, Parkers Creek, Lafetra Creek, and Mill Creek are tidally-influenced. Surface water runoff from FTMM-02 is likely to flow northward into Mill Creek (Versar, 2004b).

3.3 GEOLOGY AND HYDROGEOLOGY

3.3.1 Regional Geology and Hydrogeology

The MP and CWA are situated on coastal plain deposits that thicken to the southeast. The regional geologic and hydrogeologic framework for the New Jersey coastal plain is described by Zapecza (1989), who identified 15 regional hydrogeologic units, including nine aquifers and six confining units. An early regional geologic cross-section for the FTMM vicinity based on the work of Zapecza (1989), and presented in Versar (2005b), is provided in **Appendix A**. This cross-section indicates that the depth to crystalline bedrock at FTMM is approximately 1,000 feet. In 2010, the understanding of the geology in the area around FTMM was refined by Sanford and Sugarman of the New Jersey Geological Survey. They describe the unconsolidated material in the coastal plain as consisting of sand, silt, clay, and glauconitic clay laid down in coastal, nearshore-marine, and continental shelf settings between 95 and 10 million years ago. The sediments are grouped into 19 formations and members.

The geology of the Long Branch Quadrangle (Stanford and Sugarman, 2010) indicates that the Hornerstown, Vincentown, and Tinton formations are the unconsolidated units that outcrop or occur close to the ground surface in the area of FTMM. There is a relatively thin veneer of surficial deposits that covers most of the unconsolidated material, according to the Surficial Geology of the Long Branch Quadrangle (Stanford, 2000). The 2010 bedrock geologic map provides a geologic cross-section (A-A') through FTMM that is more refined than the one developed by Zapecza (1989); this refined cross section is also included in **Appendix A**. Regressive, upward-coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations and the Cohansey Sand), while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown, Navesink, and Hornerstown Formations). The individual thicknesses for these units vary greatly from several tens of feet to several hundred feet.

The Hornerstown Formation, which underlies much of the MP and the northern portion of the CWA, consists of glauconitic (>50%) clay and silty clay. This unstratified formation is olive, dark green and black where unweathered and olive-brown with brown to reddish-brown mottles

where weathered (Stanford and Sugarman, 2010). The Hornerstown Formation is 25 to 30 feet thick. The Vincentown Formation, which unconformably overlies the Hornerstown Formation, consists of glauconitic (5-20%), silty, medium-to-coarse, quartz sand; some fine-to-medium sand; and some very coarse sand to very fine pebbles. This formation is yellow, reddish-yellow, olive yellow, or olive-brown in color and has a total thickness of 180 feet.

The Tinton (Sand) Formation unconformably underlies the Hornerstown Formation and conformably overlies the Red Bank Sand and consists of glauconitic (5-30%), silty, medium-to-coarse and fine-to-medium, quartz sand. The color is reddish-brown, reddish-yellow, or yellowish-brown where weathered, and grayish-brown, brown, and olive-brown where unweathered. It is commonly iron-cemented into beds and masses as much as 15 feet thick. The uppermost 4 to 6 feet, just below the contact with the Hornerstown Formation, is a brown to olive-gray, glauconitic, clayey silt to sandy or silty clay (Stanford and Sugarman, 2010).

The water table aquifer in the MP and CWA areas is identified as part of the "Navesink-Hornerstown Confining Units," or minor aquifers. The minor aquifers include the Navesink Formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation, and the basal clay of the Kirkwood Formation. These geologic formations comprise a "Composite Confining Bed" for the underlying Wenonah Mount Laurel Aquifer (Zapecza, 1989 as reported by Versar, 2005b) (see regional geologic cross-section in **Appendix A**). The Composite Confining Bed is estimated to be approximately 125 feet thick at FTMM (Versar, 2005b). Wells installed in the Red Bank and Tinton Sands produce 2 to 25 gallons per minute (gpm) (Jablonski, 1968). The shallow water table conditions in the Tinton and Red Bank Sands, and the similar composition of these sands within the Kirkwood Formation, suggest that the Tinton-Red Bank-Kirkwood sequence forms a single, laterally continuous aquifer. Regionally, groundwater in this water table aquifer flows east towards the Atlantic Ocean. However, local topography tends to deflect the flow toward local depressions (Versar, 2005b).

A pumping test performed at FTMM in 1992 yielded a hydraulic conductivity of 32 gallons per day per square foot (gpd/ft^2) (4.3 feet per day [ft/day]) (Groundwater & Environmental Services, Inc. [GES] 1999). The location of the pumping test and the geologic unit tested are not known. Additional hydraulic conductivity information for the MP area is provided in Appendix IV of the *MODFLOW Groundwater Modeling Report* prepared by Brinkerhoff (2010). Twenty-one hydraulic conductivity values derived from slug tests performed in monitoring wells installed at various building areas ranged from 0.3 ft/day to 31.7 ft/day with a geometric mean value of 3.2 ft/day.

3.3.2 Site-Specific Geology and Hydrogeology

Soil types identified to a depth of 8 feet bgs on logs of test pits excavated in 2008 as part of a landfill boundary delineation project (Section 1.3.2) include grey, black, and brown silty clay, tan and grey or brown silty sand with some gravel and clay, or brown and tan sand with some gravel. Monitoring wells at FTMM-02 were installed to depths ranging from 13 to 50 feet bgs (**Table 2.3**). The borehole logs for these wells indicate that shallow soil is composed of brown silty sand, sometimes underlain by peat. Deeper soil logged in monitoring wells is composed of silt or silty sand (encountered at approximately 10 to 15 feet bgs) underlain by glauconite soil (encountered at approximately 15 to 20 feet bgs).

The thickness of cover material at 193 locations identified during the landfill boundary delineation project ranged from 0 to 10 feet and averaged 2.4 feet (Section 1.3.2). The components of the fill material encountered during historical intrusive investigations have been identified as consisting of slag, coal, ash, ceramic plates, brick, glass, plastic, broken bottles, cans, wire, plastic bags, and metal pieces. FTMM-02 overlies the unconsolidated material of the Hornerstown Formation, according to the Geologic Map of the Long Branch Quadrangle (Stanford and Sugarman, 2010). Naturally deposited surficial soils also exist above the unconsolidated units (Stanford, 2000).A site-specific geologic cross-section is presented as Figure 4-2 in the RI report (Versar, 2001); this report is provided in **Appendix A**.

The depth to groundwater at the MP typically ranges from approximately 2 to 9 feet bgs. At FTMM-02, the groundwater was observed at a depth of approximately 8 ft bgs across the site (Versar, 2004). Groundwater contour maps from the 2014 and 2015 groundwater sampling events are provided as **Figures 3.1** and **3.2**. Historical groundwater contour maps generated as part of historical reports are provided in **Appendix A** and include the RAWP (Versar, January 2001) and RAPR (Versar, 2004 and Veetech September 2010). Groundwater consistently migrates towards the north-northwest, toward Mill Creek.

Slug testing was performed on monitoring wells M2MW-12, M2MW-13, M2MW-18, M2MW-20, and M2MW-23 and a pump test was performed on monitoring well M2MW-19. Hydraulic conductivities of subsurface materials calculated with water level collected during slug tests is low, ranging from 1.24×10^{-6} ft/day to 5.14×10^{-06} ft/day and averaging at 2.50×10^{-06} ft/day (Versar, 2001). Water levels were collected at monitoring well M2MW-19, total depth of 50 ft bgs, and M2MW-24, total depth of 20 ft bgs. Analysis of data from M2MW-19 established a hydraulic conductivity of 0.2 to 0.4 ft/day (transmissivity = 72 to 135 gallons/day/foot), while analysis of data from M2MW-24 estimated a hydraulic conductivity of 1.2 ft/day (transmissivity = 381 gallons/day/foot). Hydraulic conductivities in monitoring well M2MW-24 may be more representative of the shallow (less than 20 feet) saturated zone while the hydraulic conductivity in monitoring well M2MW-19 is an approximate representation of the deeper saturated zone (Versar, 2001). The aquifer test results are provided in **Appendix A**.

3.4 LAND USE

FTMM-02 has reportedly been inactive since 1969. Since then there has been steady growth and stabilization of vegetation (grass, trees, and bushes) at the site. The anticipated future land use at FTMM-02 is passive open space (EDAW, Inc., 2008) (see Land Use Plan in **Appendix A**). Land planned for use as "open space" is expected to remain undeveloped, with only occasional maintenance activities (e.g., grounds keeping), utility work associated with underground or overhead utilities that may be present within the site boundary, and recreational activity (e.g., hiking and biking on established trails).

3.5 ECOLOGY

Major vegetation zones at FTMM consist of landscaped areas, estuarine and fresh water wetlands, riparian areas, upland forests, and old field habitats. Much of the upland areas of the MP and CWA consist of extensive areas of regularly mowed lawns and landscaped areas (Shaw, 2012). The vegetative cover of FTMM-02 is mostly cut field with isolated areas of wood-shrub habitat. Mill Creek borders FTMM-02 along its north side and a small drainage tributary to Mill Creek borders it along its west side. At this location, Mill Creek is tidally influenced (Weston,

1995). The bank of Mill Creek along FTMM-02 has undergone stabilization and a service road lies adjacent to Mill Creek. The site slopes gently to the north and surface runoff is discharged to Mill Creek. The BEE report (Shaw, 2012) indicates that the banks of Mill Creek are wetland areas with suitable habitats for endangered, threatened, or priority wildlife species, but there were no confirmed occurrences of such species. The geographic information system (GIS) digital data provided by NJDEP indicates the presence of deciduous wetlands along Mill Creek and to the east and west of FTMM-02 as well as herbaceous wetlands across the site (Shaw, 2012).

Except for occasional transient species, no federally-listed or proposed threatened or endangered flora or fauna are known to exist at FTMM. There was one observance in 1992 of a New Jersey-listed endangered species, the clustered sedge. No federal- or state-listed species were observed during the BEE site visit conducted on the MP and CWA in September 2009.

SECTION 4
NATURE AND EXTENT OF CONTAMINATION

Environmental sampling results for soil, groundwater, surface water, and sediment at, and adjacent to, FTMM-02 are described in this section.

4.1 SOIL QUALITY

Soil quality results were obtained from three types of soil investigations, which were conducted between November 1998 and March 2000: the near-surface soil characterization (Versar, 2004b), and the VOCs soil investigation and PCB soil investigations conducted as part of the RI and RAWP (Versar, 2001). Sample locations are shown on **Figure 2.1** and **Figure 2.2**. **Tables 4.1** and **4.2** show the sampling results for detected analytes only and also show selected NJDEP and background comparison criteria, including:

- NJDEP RDCSRS, NRDCSRS, and IGW Screening Levels (**Table 4.1**); and
- USEPA RSLs (target risk [TR] = 1 x 10^{-6} and target hazard quotient [THQ] = 0.1) for residential and industrial soil and protection of groundwater (the latter being analogous to the NJDEP IGW Soil Screening Levels) (**Table 4.2**).

Comparison of site concentrations to USEPA RSLs was used because the U.S Army is tasked with completing a CERCLA-compliant RI (including risk assessment). Therefore, RSLs are used to identify those chemicals that are present at a sufficient concentration to justify inclusion as COPC and consideration in the quantitative baseline risk assessment. Any analyte present at a concentration greater than both the Residential Soil RSL based on a target risk of 1 x 10^{-6} or a THQ of 0.1 and the range of FTMM-specific background concentrations for metals (Weston, 1995) is considered a COPC (except for metals considered essential human nutrients) and included for further evaluation in the baseline risk assessment. Any analyte that is present at concentrations less than these residential criteria are not expected to pose a risk to human receptors under any future land use, and so are not included in the baseline risk assessment. A comparison to residential criteria is not meant to imply that residential land use is expected or planned at the site. Residential criteria are simply used as a tool to identify COPCs.

Site concentrations were also compared to NJDEP criteria. Both residential and non-residential criteria are used to provide context for NJDEP to evaluate potential future land use.

Table 4.3 summarizes the number of times detected analyte concentrations were greater than one or more NJDEP or USEPA comparison criteria, and the number of times that detected metal concentrations were greater than maximum background concentrations presented by Weston (1995).

4.1.1 Summary of Comparison Criteria Exceedances in Soil

Concentrations of VOCs, SVOCs, pesticides, PCBs, and metals that exceed NJDEP and/or USEPA comparison criteria were detected in soil samples.

As part of the PCB soil investigation, Versar (2001) reported that PCBs appeared to be randomly distributed both within and among the soil borings and no source area was defined, which is illustrated by the variety of waste materials placed within the landfill. As part of the

investigation, Versar collected soil samples to ensure vertical delineation, however, based on the random distribution, concentrations could not be "connected".

The soil VOC investigation shows that VOCs were detected in subsurface soils (to a depth of approximately 7-8 ft bgs), but no exceedance of the then-current residential direct contact soil cleanup criteria (RDCSCC) was observed (Versar, 2001).

As part of the near-surface soil investigation, Versar (2004b) reported that analysis of the soil sampling results did not define a source area or level of contamination that necessitated the identification and evaluation of potential remedial actions. For many of the analytical results that exceeded the then-current RDCSCC, the "compliance averaging" approach was used by Versar (2004b) to determine compliance with NJDEP technical requirements. Compliance averaging uses the average contaminant concentration in an area of concern rather than the concentration in individual samples for comparison to applicable soil cleanup criteria. In most cases, either the calculated compliance average was below the respective RDCSCC or the exceedance was considered marginal (Versar, 2004b). For the analytes that were not eliminated based on compliance averaging, Versar (2004b) reported that a document equivalent to a Declaration of Environmental Restriction would be incorporated into the FTMM Master Plan for soils containing these exceedances, and recommended no further action for near-surface soil at FTMM-02. A Declaration of Environmental Restriction is similar to the current "Deed Notice" in the NJDEP regulations. It should be noted that in a NJDEP comment letter on the RIR for near-surface soils and RAPR dated June 26, 2009, NJDEP stated that the averaging policy was applied incorrectly at the FTMM-02 landfill site. In addition, NJDEP stated in a comment letter dated November 20, 2013 that they did not agree that the near surface soils had marginal exceedances and did not agree that the exceedances were of an isolated nature and a de minimis quantity.

4.1.1.1 Summary of Exceedances of Residential Direct Contact Comparison Criteria

Concentrations of the following constituents exceeded the current NJDEP RDCSRS and/or USEPA Residential Soil RSL in at least one of the soil samples analyzed for VOCs, SVOCs, pesticides/PCBs, and metals (**Tables 4.1 through 4.3**):

- The VOC chloroform;
- The SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene;
- The pesticides 4,4'-DDT, dieldrin, and 4,4'-DDE;
- The PCBs Aroclor 1016, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260, and total PCBs (the total PCBs were calculated as the total PCB aroclors detected in soil); and
- The metals aluminum, antimony, arsenic, cadmium, cobalt, copper, iron, lead, manganese, mercury, nickel, thallium, vanadium, and zinc.

4.1.1.2 Summary of Exceedances of Non-Residential Direct Contact Comparison Criteria

Concentrations of the following constituents exceeded the current NJDEP NRDCSRS and/or USEPA Industrial Soil RSL in at least one of the soil samples analyzed for VOCs, SVOCs, pesticides/PCBs, and metals (**Tables 4.1 through 4.3**):

- The VOC chloroform;
- The SVOCs benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and dibenz(a,h)anthracene;
- The PCBs Aroclor 1016, Aroclor 1242, Aroclor 1248, Aroclor 1254, and Aroclor 1260, and total PCBs; and
- The metals arsenic, cadmium, cobalt, iron, lead, and manganese.

4.1.1.3 Summary of Exceedances of Impact to Groundwater Comparison Criteria

Concentrations of the following constituents exceeded the current NJDEP IGW and/or USEPA Protection of Groundwater RSL in at least one of the soil samples analyzed for VOCs, SVOCs, pesticides/PCBs and metals (**Tables 4.1 through 4.3**):

- The VOCs acetone, benzene, carbon disulfide, chlorobenzene, chloroform, ethyl benzene, methyl ethyl ketone, methylene chloride, toluene, and total xylenes;
- The SVOCs 2-methylnaphthalene, acenaphthene, azobenzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, dibenz(a,h)anthracene, dibenzofuran, di-n-butylphthalate, indeno(1,2,3-cd)pyrene, naphthalene, and pyrene;
- The pesticides 4,4'-DDD, 4,4'-DDE 4,4'-DDT, dieldrin, endrin, alpha-chlordane, gamma-chlordane, and gamma-BHC;
- The PCBs Aroclor 1016, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260, and total PCBs; and
- The metals aluminum, antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc.

4.1.1.4 Identification of Background Constituents

Metal concentrations were compared to maximum background concentrations for the MP presented by Weston (1995) (**Tables 4.1 through 4.3**). The maximum-detected concentrations of aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, vanadium, and zinc were greater than the maximum background concentration in background soil samples collected by Weston (1995).

4.1.2 COPCs in Soil

Following USEPA (1989) guidance, data with J, E or ER, and D qualifiers were treated as detects and usable for COPC identification purposes. U and UJ qualified data were considered to be non-detects but usable for COPC identification. B and BJ qualified data were treated as non-

detects because the analyte was detected in the associated blank and the estimated chemical concentration in the sample was not five or ten times greater than the concentration in the associated blank (USEPA, 1989). Detections flagged with a B and BJ are not otherwise usable for COPC identification purposes as the detections may be associated with laboratory contamination.

COPCs in soil were identified by comparing the maximum detected concentration of each analyte to the USEPA Residential Soil RSL (TR = 1 x 10^{-6} and THQ = 0.1). If organic chemicals were detected at concentrations greater than USEPA Residential Soil RSLs in at least one sample, they were considered COPCs. Metals detected at concentrations exceeding the Residential Soil RSL were then compared to the maximum background concentration (Weston, 1995). If the maximum concentration of a metal was greater than both the USEPA Residential Soil RSL and the maximum background concentration in at least one sample, that metal was considered to be a COPC. If the maximum concentration was greater than the USEPA Residential Soil RSL but less than the maximum background concentration, it was not considered a COPC. However, metals that are considered to be essential human nutrients (calcium, iron, magnesium, potassium, and sodium) were not considered to be COPCs. This decision logic is presented on **Figure 4.1.**

COPCs in soil (**Table 4.3**) include:

- VOC chloroform;
- SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene;
- Pesticides 4,4'-DDE, 4,4'-DDT, and dieldrin;
- PCBs Aroclor 1016, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260, and total PCBs; and
- Metals aluminum, antimony, arsenic, cadmium, cobalt, copper, lead, manganese, mercury, nickel, thallium, vanadium, and zinc.

4.2 GROUNDWATER QUALITY

The scope of the groundwater monitoring program implemented from May 1997 to August 2011, and the additional sampling performed in August 2013 and December 2014 is summarized in **Table 2.2**. As recommended in the Final Baseline Groundwater Sampling Report (Parsons, 2014), and approved by NJDEP in a letter "Re: Final Baseline Ground Water Sampling Report (August 2013)" dated July 3, 2014 (provided in **Appendix A**), an annual LTM program was continued for VOCs only at select monitoring wells at FTMM-02 in 2014. Monitoring well locations are shown on **Figure 1.3**.

Groundwater sampling results are summarized in the following subsections. Information was obtained from the following sources:

- Summary sampling results tables for data collected from May 1997 to September 2010 received from the U.S. Army and partially (starting with data collected in March 2008) reproduced in this report as **Table 4.4**;
- Versar (2004, 2005) for data collected from June 2000 to September 2003 (**Appendix A**);

- VEETech, P.C. (2009, 2010a, 2010b) for data collected from December 2003 to December 2008 (**Appendix A**);
- U.S. Army (2012) for data collected from March 2009 to September 2010 (**Appendix A**);
- Previously unpublished FMETL laboratory data reports for quarterly sampling events performed from December 2010 to August 2011;
- Sampling results from the August 2013 Baseline Groundwater Sampling Event (presented in **Table 4.5)**; and
- Sampling results from the December 2014 LTM Sampling Event presented in **Table 4.5**.

Groundwater quality results obtained throughout the monitoring period from May 1997 to August 2011, and additional sampling performed for the 2013 Baseline Sampling event and 2014 Annual LTM Sampling events are summarized in the following subsections. **Table 4.4** presents sampling results for detected analytes from March 2008 to August 2011 (16 monitoring events), and **Table 4.5** presents sampling results from the August 2013 and December 2014 groundwater sampling events. Summary tables that provide groundwater quality data collected from June 1997 to January 2008 are provided in **Appendix A**. **Tables 4.4 and 4.5** also show both the NJDEP GWQS and the USEPA Tapwater RSLs to facilitate the comparison of sampling results to criteria developed to be protective of use of groundwater as a potable water source. Maximum background concentrations for metals in groundwater as presented by Weston (1995) are also provided in **Tables 4.4 and 4.5**.

4.2.1 Summary of Historical Groundwater Sampling Results

Quarterly groundwater sampling events were conducted from May of 1997 through August of 2011 and included analysis for VOCs, SVOCs, pesticides, PCBs, and metals. In March 2004, sampling was reduced to volatiles only at all wells on site except M2MW05 which continued to be sampled for pesticides and PCBs. In December 2005, all groundwater sampling at FTMM-02 was reduced to volatiles only. In March 2009 all parameters were sampled again for that quarter, and in March 2010 metals were reintroduced as part of the quarterly sampling. As summarized by the U.S. Army (2012), benzene, chlorobenzene, and TBA were identified at concentrations exceeding the GWQS in groundwater. The Army concluded that metals exceedances in groundwater reported in the 2012 RAPR were related to background concentrations of metals in soil.

4.2.2 Summary of Results from Eight Quarterly Groundwater Sampling Events and 2013 and 2014 Events

Eight quarters of groundwater monitoring data (December 2009 through August 2011) and the 2013 Baseline Sampling Event and 2014 Annual LTM Sampling Event are evaluated in greater detail in this subsection as being representative of recent groundwater conditions. During groundwater monitoring, detected concentrations of select VOCs and metals exceeded NJDEP GWQS and/or USEPA Tapwater RSLs (**Tables 4.4 and 4.5**). Both NJDEP and USEPA comparison criteria were used for the reasons described for soil in Section 4.1. USEPA Tapwater RSLs incorporate a TR of 1×10^{-6} and a THQ of 0.1.

Table 4.6 summarizes the number of times concentrations of a detected analyte were greater than the NJDEP GWQS and/or USEPA Tapwater RSLs during the eight quarters of groundwater monitoring (from December 2009 through August 2011), the 2013 Baseline Event, and the 2014 Annual LTM Event, and the number of times detected metal concentrations exceeded the maximum background concentration presented by Weston (1995).

4.2.2.1 Summary of Exceedances of NJDEP and USEPA Comparison Criteria

Concentrations of the following constituents exceeded their current NJDEP GWQS and/or USEPA Tapwater RSL in at least 1 of the 188 samples collected during the eight quarters of groundwater monitoring and (in the case of VOCs) the August 2013 Baseline Sampling Event, and December 2014 Annual LTM Sampling Event (**Table 4.6**):

- The VOCs 1,1,2-trichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, ethyl benzene, methyl tert-butyl ether (MTBE), naphthalene, and TBA; and
- The metals aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, selenium, silver, sodium, thallium, vanadium, and zinc.

4.2.2.2 Identification of Background Constituents

Aluminum, cadmium, chromium, cobalt, lead, thallium, and vanadium were detected at concentrations greater than their NJDEP GWQS and/or USEPA Tapwater RSL, but less than their maximum background concentration (Weston, 1995) and are not identified as COPCs. The metals detected at concentrations exceeding their NJDEP GWQS and/or USEPA Tapwater RSLs and also the maximum background concentration for the MP established by Weston (1995) included antimony, arsenic, barium, beryllium, copper, iron, manganese, mercury, selenium, silver, sodium, and zinc. These exceedances are addressed below:

- Iron and sodium, as essential nutrients, were not evaluated as COPCs;
- The detected concentrations of barium, beryllium, copper, mercury, and silver are considered to be anomalous, or consistent with background concentrations, and these four metals are not identified as COPCs, specifically:
    - Exceedances of the maximum background for barium were isolated (the three exceedances were in two monitoring wells (including a duplicate sample) during the June 2011 sampling event) and overall are not representative of the vast majority of the dataset.
    - Beryllium exceeded the USEPA Tapwater RSL and background only in the March 2011 sample event at several wells, followed by multiple non-detects.
    - Copper exceeded the maximum background in only one sample.
    - Mercury exceeded maximum background only in the September 2010 and August 2011 sampling events, and occurred during only one event at a given well (September 2010 exceedances were in M2MW06, M2MW12, and M2MW13, and in August 2011 they were in M2MW03, M2MW05, and M2MW22). Overall, one exceedance at a given well, is not representative of the vast majority of the dataset, and mercury is considered a background constituent of groundwater.

- Silver exceeded the USEPA Tapwater RSLs in only 1 sample and well, followed by multiple sample events where it was not detected.

- Antimony, arsenic, and selenium were detected at concentrations exceeding maximum background at several wells early in the data set analyzed, followed by multiple rounds of non-detects or less than maximum background; and
- Zinc exceeded the USEPA Tapwater RSL and maximum background in upgradient well M2MW01.

4.2.3 COPCs in Groundwater

As shown on **Figure 4.1**, COPCs in groundwater were identified by comparing the maximum detected concentration during the eight quarterly sampling events (December 2009 to August 2011) and the August 2013 and December 2014 sampling events to the USEPA Tapwater RSL (TR = 1 x 10^{-6} and THQ = 0.1). Organic chemicals that were detected at concentrations greater than USEPA Tapwater RSLs would be considered COPCs unless the exceedances were sufficiently limited, localized, and/or anomalous that they were not considered to be representative. Metals that were detected at concentrations exceeding the Tapwater RSL were then compared to the maximum detected background concentration (Weston, 1995). Detected metals that also exceeded the maximum background concentration (Weston, 1995) were then assessed more holistically to determine whether background exceedances were representative of site-related contamination, or were due to other factors such as turbidity or upgradient sources. Metals exceeding background were exempted from being identified as COPCs as a result of this holistic assessment if any of the following conditions were met:

- There were only a small number of background exceedances during the most recent sampling events such that the exceedances were anomalous outliers in time and/or space and not representative of the vast majority of the data;
- The background exceedances occurred early in the time period encompassed by the most recent sampling events, and concentrations in subsequent samples were below the maximum background concentration;
- The background exceedances only occurred in an upgradient monitoring well;
- Background exceedances cannot be plausibly related to potential site-related sources of contamination; or
- Based on the site-specific evaluation of metals data for FTMM-02.

Metals that are essential human nutrients (calcium, iron, magnesium, potassium, and sodium) were not identified as COPCs, and based on the analysis provided above in Section 4.2.2.2, the only metal that was not considered representative of background conditions was manganese. Manganese exceeded the USEPA Tapwater RSL and maximum background in multiple rounds of sampling at M2MW01, M2MW02, M2MW03, M2MW06, M2MW09, M2MW16, M2MW21, and M2MW24. Therefore manganese was identified as a COPC in groundwater.

SVOCs were eliminated from the sampling program in 2004 (**Table 2.2**) and determined not to be COPCs. PCBs and pesticides were eliminated from the sampling program in 2005, but pesticides were sampled in the 2013 Baseline Sampling Event; and the only detections were of

pesticides that had no established RSLs, therefore, no SVOC, pesticide, or PCB COPCs were identified in groundwater at FTMM-02.

VOCs that exceeded USEPA Tapwater RSL in a small number such that the exceedances were considered anomalous outliers in comparison with the vast majority of the data are 1,1,2-trichloroethane and ethyl benzene. VOCs that were retained as COPCs (**Table 4.6**) include 1,4-dichlorobenzene, benzene, chlorobenzene, MTBE, and naphthalene.

4.3 SURFACE WATER

The scope of the surface water monitoring program implemented from October 1996 to September 2010 is summarized in **Table 2.3**, and sampling locations historically associated with FTMM-02 are shown on **Figure 2.3**. Surface water sampling results are summarized in the following subsections. Information was obtained from previous reports (**Appendix A**) and summary sampling results tables for data collected from October 1996 through September 2010 has been reproduced in this report as **Table 4.7**.

Tables 4.7 and 4.8 also show NJDEP Fresh Water SWQS and USEPA criteria for protection of human health for VOCs, metals, and select wet chemistry constituents for comparison purposes. Both NJDEP and USEPA comparison criteria were used for the reasons described for soil in Section 4.1. A hierarchy of USEPA human health criteria was used in the priority shown below to aid the evaluation. For example, if the highest priority criterion was not available for a particular analyte, the second priority criterion was used, and so on down the line.

1. National Recommended Water Quality Criteria (NRWQC) (organism only)
2. NRWQC (water + organism)
3. Tapwater RSLs
4. Maximum Contaminant Levels (MCLs)

Two sampling locations (SS-13 and SS-15) are located upstream of FTMM-02, and one location (SS-24) is located at the downstream edge of FTMM-02. Sampling results from these locations are provided in **Table 4.7**.

Based on high tide salinity measurements presented in the BEE (Shaw, 2012), the downstream edge location of the landfill (SS-24) is slightly saline, with salinity ranging from 4 to 9 parts per thousand (ppt). High tide salinity measurements at the upstream edge location to the site (SS-15) ranged from 4 to 7 ppt, indicating that this reach of Mill Creek is also slightly saline. Six high tide salinity measurements on Mill Creek south bank along FTMM-02 landfill were taken during the June 2010 BEE investigation and the average high tide salinity was 0.27 ppt. The high tide salinity measurements for the most distant upstream location on Mill Creek (SS-13) were 0 ppt, indicating fresh water. The overall site average high tide salinity is 3.4 ppt which is slightly lower than the NJDEP criteria (3.5 ppt) characterized as the point of demarcation between freshwater and saltwater. Based on field-observations of tidal influence, BEE report stated that Mill Creek water along FTMM-02 was considered as fresh water. Weston (1995) also stated that Mill Creek becomes saline immediately downgradient of FTMM-02 landfill. Therefore, Mill Creek along FTMM-02 is classified as fresh water (FW2-NT) (N.J.A.C. 7:9B *et seq.*).

4.3.1 Summary of Surface Water Sampling Results

Recent surface water monitoring data is available for samples SS-13, SS-15, and SS-24 (**Table 4.7**). During the eight most recent sampling events (December 2008 through September 2010), PCE and TCE were detected adjacent to the site (SS-15 and SS-24) at concentrations exceeding the NJDEP Fresh Water SWQS (0.34 µg/L and 1 µg/L, respectively). PCE exceedances detected upstream of FTMM-02 (SS-15) ranged from 0.93 µg/L to 3.03 µg/L and PCE exceedances detected downstream of FTMM-02 (SS-24) ranged from 0.65 µg/L to 2.66. Only one TCE exceedance was detected upstream of FTMM-02 (1.26 µg/L at SS-15) and downstream of FTMM-02 (1.04 µg/L at SS-24). TCE and PCE maximum concentrations were detected in March 2010. Downstream concentrations were similar to or lower than concentrations detected upstream.

Only upstream surface water location SS-15 had samples collected for metals. Antimony, arsenic, lead, and mercury were detected at concentrations that exceeded their respective NJDEP Fresh Water SWQS and/or USEPA Human Health criterion (**Table 4.7**). Antimony exceedances ranged from 6.06 µg/L to 17.8 µg/L, arsenic exceedances ranged from 1.13 µg/L to 66.6 µg/L, the only lead exceedance was detected at 5.74 µg/L, and the only mercury exceedance was detected at 0.18 µg/L.

4.3.2 COPCs in Surface Water

COPCs were identified in surface water by comparing the maximum detected concentration to the USEPA NRWQC for protection of human health (organism only) (**Table 4.8**). Detected analytes that exceeded the USEPA NRWQC in surface water samples were considered COPCs unless the analyte was also detected upstream of the site at a similar or greater concentration.

Only Arsenic exceeded the NRWQC, and as described above, the sample was collected at an upstream location, and is not related to the site. Therefore, no COPCs were retained for surface water.

4.4 SEDIMENT

Sediment sampling was conducted in April 2000. A total of 12 borings (B-1 through B-12) were advanced along Mill Creek adjacent to FTMM-02; boring locations are shown on **Figure 2.3** and analytical results are presented in **Table 4.9**.

A total of 24 sediment samples (and two duplicate samples) were collected at depths of 0 to 6 inches bgs and 6 to 12 inches bgs. Sediment sampling results were compared to both NJDEP and USEPA criteria for the reasons described for soil in Section 4.1. Human health-based criteria for soil are used for comparison purposes to support identification of COPCs in the sediment. PCBs (specifically Aroclor 1254) were detected at a concentration of 0.047 milligrams per kilograms (mg/kg) at B-11 (0 to 6 inches) and 0.055 mg/kg in the duplicate sample at B-12 (0 to 6 inches). No other PCB was detected. The detected PCB concentrations do not exceed the NJDEP NRDCSRS or USEPA Industrial Soil RSL. Boring B-11 and B-12 are the farthest upstream sampling locations. The detected concentrations of Aroclor 1254 are likely related to an upstream source, and they may not be associated with FTMM-02. As a result, no PCBs are evaluated as a COPC in the risk assessment.

Sediment samples were also collected from Mill Creek, adjacent to FTMM-02 as part of the 2010 BEE (Shaw, 2012). A total of 13 sediment samples (including one duplicate sample) were

collected from Mill Creek in relation to Landfill 2 (FTMM-02) as part of the 2010 BEE. The samples were analyzed for VOCs, SVOCs, pesticides, PCBs, and metals. Sampling results were compared to ESCs that are intentionally conservative. The results of the comparisons were used to identify COPECs. COPECs identified in sediment included SVOCs, PCBs, and metals. The BEE (Shaw, 2012) concluded that constituents in sediment at FTMM-02 were unlikely to have a deleterious effect on sensitive ecological receptors or habitats, and additional ecological assessments were not warranted or recommended.

SECTION 5
CONTAMINANT FATE AND TRANSPORT

This section addresses the fate and transport of VOCs, SVOCs, pesticides and PCBs, and metals detected in soil and groundwater, at FTMM-02 at concentrations exceeding one or more NJDEP or USEPA comparison criteria and/or (in the case of metals) maximum background concentrations reported in Weston (1995) (see Section 4 descriptions of sampling results). The fate and transport of detected constituents in other sampled media (surface water and sediment) are not addressed because sampling data indicate that these media have not been significantly impacted by historical activities at FTMM-02.

The environmental fate and transport of a contaminant is controlled by the contaminant's physical and chemical properties and the nature of the subsurface media through which the contaminant is migrating (USEPA, 1998).

Unless otherwise indicated in the text, the fate and transport information presented in this section was derived from three primary sources:

1. The online Toxnet Hazardous Substances Data Bank (HSDB; http://toxnet.nlm.nih.gov/cgi-bin/sis/search);
2. Toxicological profiles prepared by the Agency for Toxic Substances and Disease Registry (ATSDR) (http://www.atsdr.cdc.gov/toxprofiles/index.asp); and
3. The Framework for Metals Risk Assessment (USEPA, 2007).

5.1 POTENTIAL ROUTES OF MIGRATION

Potential migration routes for contaminants detected in soil and groundwater at FTMM-02 include the dissolution of soluble residual contamination in the vadose zone soil into infiltrating precipitation that percolates through the vadose zone to the water table, and primarily lateral migration of contaminants dissolved in groundwater toward Mill Creek.

5.2 CONTAMINANT PERSISTENCE IN SOIL

5.2.1 VOCs

The mobility of VOCs in soil will depend largely on the following factors (USEPA, 1998):

- Chemical-specific soil/water distribution coefficient (Kd) and organic carbon/water partition coefficient (Koc) impacting the tendency of the constituent to sorb to soil particles;
- Water solubility, and
- Vapor pressure and Henry's Law constant (impacting the tendency to volatilize into air).

In general, chloroform in soil is subject to volatilization, biodegradation, and vertical migration toward the water table in percolating recharge water. Therefore, chloroform is expected to have a relatively low degree of persistence in vadose zone soil at FTMM-02.

5.2.2 SVOCs

The SVOCs that exceeded NJDEP and/or USEPA comparison criteria in the largest numbers of samples are PAHs. Therefore, the fate and transport analysis in this subsection focuses on PAHs.

The SVOCs identified as COPCs in soil, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene are PAHs. As hydrocarbons approach a size of approximately 15 to 20 carbon atoms (including the above-listed PAHs), their vapor pressures and water solubilities become negligible, and partitioning to air or dissolution in water is unimportant (American Petroleum Institute [API], 2011). API (2011) generally classifies petroleum substances in the C9 to C25 range as "not readily biodegradable" because their biodegradation rates are typically slower than lighter, more volatile fuels, such as gasoline or jet fuel. Therefore, PAHs are expected to be relatively persistent in vadose zone soil at FTMM-02.

5.2.3 Pesticides/PCBs

Pesticides that are classified as persistent organic pollutants (including those detected at FTMM-02: 4,4'-DDE, 4,4'-DDT, and dieldrin) are compounds that are insoluble in water, adsorb strongly to soil particles, and are resistant to biodegradation. However, some volatilization may occur, enabling them to move long distances before atmospheric deposition occurs. Overall, organic pesticides are expected to be relatively persistent in vadose zone soil at FTMM-02.

Similarly, PCBs are expected to have little to no mobility in soil. The lower the degree of chlorination, the more water soluble a PCB congener will be. However, PCBs may be volatilized from soil surfaces into the atmosphere and subsequently removed from the atmosphere by wet or dry deposition.

5.2.4 Metals

Metals are subject to various transformation processes in soil. For example, metals can exist in the environment in several valence forms, and they can also exist as organometallic compounds that have a metal-carbon bond. Metal transformation processes, such as metal methylation, occur through interactions with other chemicals and biota in the environment. In general however, metals are elements that are resistant to natural degradation in the environment, and therefore are expected to be relatively persistent in vadose zone soil at FTMM-02.

5.3 CONTAMINANT PERSISTENCE IN GROUNDWATER

5.3.1 VOCs

The VOC 1,4-dichlorobenzene can be slowly biodegraded in both aerobic and anaerobic environments, with half-lives of approximately one year or longer. Moderate water solubility suggests that this compound can dissolve in groundwater in excess of regulatory drinking water standards. The vapor pressure of this compound indicates that that volatilization from groundwater is possible. Chlorobenzene and benzene are expected to react similarly, with benzene being considerably more volatile. Considering destructive attenuation processes such as biodegradation, as well as non-destructive attenuation processes in the saturated zone (i.e., diffusion, dilution, and dispersion), these VOCs will likely decrease in concentration over time.

Given its high vapor pressure, MTBE will be expected to volatilize rapidly from surface water and soil surfaces. However, MTBE can be fairly persistent in groundwater since it shows limited susceptibility to either anaerobic or aerobic biodegradation. MTBE will likely remain in groundwater.

Naphthalene can dissolve in water to a limited degree and can become weakly attached to soil or pass through soil into groundwater. In groundwater, biodegradation will break it down or it will evaporate into the air.

5.3.2 Metals

Metals in groundwater are subject to retardation processes. Retardation processes depend on a number of factors including sorption (attachment of metals species to mineral surfaces), speciation (particularly metals complexes which have differing tendencies to be adsorbed or desorbed), precipitation (metals precipitate out of solution when solubility limits are reached), colloid formation (formation of colloids and association of metal species within them), biofixation (binding of metals to solid surfaces through the actions of microorganisms or plants) and natural organic matter interactions. The processes may be affected at least by pH, oxidation-reduction potential, salinity, and concentrations of competing ions. In general, metals in groundwater are sorbed to particles or retained in solution, and are expected to be relatively persistent in shallow groundwater at FTMM-02.

The reducing groundwater environment induced by the presence of organic carbon in the saturated zone (e.g., fuel hydrocarbons, organic waste in landfills, high concentrations of native organic carbon) may increase the concentrations of manganese dissolved in groundwater (Air Force Center for Environmental Excellence [AFCEE], 2007). In this scenario, solid-phase, bioavailable manganese (Mn^{+4}) may be used by microbes as an electron acceptor during anaerobic biodegradation of organic carbon. During this process, Mn^{+4} is reduced to soluble manganese (Mn^{+2}), resulting in increased concentrations of dissolved manganese in groundwater. Therefore, concentrations of dissolved manganese in groundwater can be used as an indicator of anaerobic biodegradation of anthropogenic organic carbon such as at fuel release sites or landfills. While manganese is more soluble under reducing conditions, migration of this metal out of the reactive zone where anaerobic biodegradation is occurring is often substantially retarded by adsorption to the aquifer matrix and/or precipitation as insoluble manganese sulfides (*e.g.*, Butler and Hayes, 1999). In naturally oxidizing groundwater systems, the mobilized Mn^{+2} is typically precipitated/immobilized downgradient of the reactive zone when the groundwater conditions return to a more oxidizing state closer to background conditions. In addition, as the mass of bioavailable organic carbon (e.g., landfilled organic waste) in the reaction zone becomes depleted, the groundwater system will likely become more oxidizing, and concentrations of manganese in groundwater should decrease.

5.4 CONTAMINANT MIGRATION IN SOIL

5.4.1 VOCs

In general, VOCs are expected to be moderately to highly mobile in vadose zone soil, and the potential for substantial vertical migration to groundwater exists.

5.4.2 SVOCs

For the reasons described in Section 5.2.2, PAHs identified in soil at FTMM-02 are expected

to be relatively immobile and will not readily leach to groundwater.

5.4.3 Pesticides/PCBs

For the reasons described in Section 5.2.3, the organic pollutant pesticides/PCBs present at FTMM-02 are expected to be strongly sorbed to soil particles and have little to no mobility in soil. Therefore, they will not readily leach to groundwater.

5.4.4 Metals

Because the behavior of metals in the environment defies simple generalities, understanding the chemistry of the particular metal and the environment of concern is necessary to assess the metal's behavior in the environment in a detailed fashion. However, the factors that control metal chemistry and the environmental characteristics used to produce estimates of metal fate and effects can be generalized. The pH of the host medium is probably the single most important variable that influences the behavior of metals in the environment; most complexation and precipitation reactions are pH dependent.

Movement of metals through soils is dependent on the chemical properties controlling speciation, the presence of ligands that control complexation of metals within pore water and adsorption onto mineral surfaces, and the rate of water flux through the soil. Metals are lost from the soil by leaching into groundwater and through metal-specific uptake by plants. As metals age in soils, they decrease in bioavailability.

In the soil environment, metals can exist as cations (having a positive charge), anions (having a negative charge), or neutral species (having a zero charge). Their form significantly affects their sorption, solubility, and mobility. For example, most soils are chiefly negatively charged; thus, metal cations have a higher propensity to be sorbed by soil particles than do metal anions. For most soils in the U.S., negatively charged sites are more plentiful; less than 5% of the total available charge on the soil surface is positively charged. Metals existing as cationic species have a greater propensity to associate with such soils, making them less bioavailable. Anionic metals generally move into pore water—and so are more bioavailable—but leach out of the system much more rapidly. In summary, soil pH and availability of charged sites on soil surfaces are the primary soil factors controlling release of metals to pore water and, subsequently, bioavailability. Metals are usually cations, including those evaluated as COPCs in the risk assessment. Therefore, metals in vadose zone soil at FTMM-02 are expected to be relatively immobile.

5.5 CONTAMINANT MIGRATION IN GROUNDWATER

5.5.1 VOCs

The VOC 1,4-dichlorobenzene is moderately soluble in water, and is expected to adsorb to aquifer solids in groundwater. It is slowly biodegraded in both aerobic and anaerobic environments. Therefore, migration of this compound in groundwater is possible, but will likely be retarded through adsorption as well as by destructive biodegradation mechanisms.

MTBE has a relatively high water solubility and combined with little tendency to sorb to soil particles, it can be expected to migrate in groundwater.

5.5.2 Metals

As with soils, the behavior of metals in groundwater cannot readily be generalized. Under some conditions metals in groundwater can be mobile as colloidal sized particles, even though the metal is in an insoluble form. Although not soluble, colloidal particles are so small they may approach the size of ionized species within an order of magnitude. As such they are transportable in the pore spaces of tight aquifer formations (Vance, 1993). Metals in groundwater will interact with and adsorb to components of the soil matrix. Clays, other mineral components, and carbonaceous material (especially humic and fulvic substances) can act in this manner. However in the case of metals, the dominant adsorptive component of the soil matrix is iron. Iron oxides (particularly of Ferric (Fe^{+3}) iron) have a very high adsorptive affinity and total capacity for metal ions and oxyanionic metal complexes (Vance, 1993).

EPA (1992) states that transport of metals may be enhanced due to formation of organic and inorganic metal complexes that do not sorb to soil surfaces, and concludes that evaluating the extent of metal retention by a soil (and by extension, in an unconsolidated aquifer) is site-, soil-, and waste-specific due to the wide range of soil characteristics and various forms that metals can take in the subsurface. Predicting the migration of metals in shallow groundwater at FTMM-02 is further complicated by the presence of landfill debris that may extend below the water table, at least seasonally.

While manganese is more soluble under reducing conditions, migration of this metal out of the reactive zone where anaerobic biodegradation of organic carbon (e.g., landfilled organic waste) is often substantially retarded by adsorption to the aquifer matrix and/or precipitation as insoluble manganese sulfides (e.g., Butler and Hayes, 1999). In naturally oxidizing groundwater systems, the mobilized Mn^{+2} is typically precipitated/immobilized downgradient of the reactive zone when the groundwater conditions return to a more oxidizing state closer to background conditions.

5.6 SUMMARY

The contaminant fate and transport information presented above indicates that VOCs in vadose zone soil are expected to have a relatively low persistence and moderate to high mobility in vadose zone soil. In contrast, SVOCs, pesticides, PCBs, and metals in soil at FTMM-02 are expected to be relatively persistent and immobile, limiting their impact on groundwater quality. Migration of the VOC 1,4-dichlorobenzene, MTBE, and naphthalene are expected to be attenuated by adsorption as well as biodegradation. Metals in groundwater will likely be moderately to highly sorbed to aquifer matrix materials and thus have limited mobility, but their mobility in groundwater is dependent on too many metal- and site-specific factors to predict with confidence. NJDEP (2003) found that New Jersey soils typically have high iron concentrations. Glauconitic soils have iron-rich clay minerals (Dooley, 2001); these soils are common at FTMM and potentially may enhance sorption of metals to the soil matrix in the saturated zone.

SECTION 6
BASELINE RISK ASSESSMENT

The objective of this baseline human health risk assessment (HHRA) is to provide a quantitative evaluation of the risk associated with exposure to soil, surface water, sediment, and groundwater at FTMM-02. The HHRA will determine if there is potential unacceptable risk to human health associated with exposure to contaminants present in these environmental media. The streamlined method to assess human health risk at FTMM-02 was developed as a component of a presumptive remedial strategy for the landfills at FTMM. The streamlined method was developed without consultation with the U.S. Army Public Health Command. However, as discussed below, the resulting quantitative risk estimates are comparable to those resulting from conventional risk assessment methods defined in the *Risk Assessment Guidance for Superfund* (RAGS; USEPA, 1989) and U.S. Army Corps of Engineers' (USACE) *Risk Assessment Handbook* (EM 200-1-4) (USACE, 1999) for the purpose of evaluating risk at a landfill site where a presumptive remedy will be implemented.

In a letter to Ms. Wanda Green, BRAC Environmental Coordinator at FTMM, dated August 27, 2012, NJDEP (2012) accepted the revised BEE submittal (Shaw, 2012), agreed that "all exceedances have been sufficiently evaluated and addressed for ecological receptor considerations", and stated that "no additional ecological evaluation or assessment is necessary for the Main Post and Charles Wood Area." Therefore, additional ecological risk evaluation was not performed for FTMM-02.

6.1 RISK ASSESSMENT PROCESS

6.1.1 Summary of Available Data for FTMM-02

This quantitative HHRA for FTMM-02 used the data collected in the investigations summarized in Section 2 of this RI. As described in Section 2, environmental sampling at the site included surface soil, sediment, surface water, and groundwater.

The analytical results for chemicals detected in each environmental medium at FTMM-02 are provided in data summary tables in Section 4 of this RI (**Tables 4.1 and 4.2** [soil], **Tables 4.4 and 4.5** [groundwater], **Table 4.7** [surface water], **and Table 4.9** [sediment]). COPCs were identified in soil (**Table 4.3**) and groundwater (**Table 4.6)**. No COPCs were identified in surface water (**Table 4.8**) or sediment (**Table 4.9**).

6.1.2 General HHRA Approach and Guidance Documents

Techniques and methods developed or recognized by the USACE and the USEPA were modified for use in this HHRA. This quantitative HHRA used a risk ratio approach (which is further described in Section 6.2.1 below) to quantify potential carcinogenic risk and non-carcinogenic hazards. This streamlined approach, rather than the traditional risk assessment approach, was selected for use at the landfill sites because there is already a presumptive remedy of containment that will be implemented. Use of the streamlined approach will reduce costs associated with the risk assessment process by reducing the risk assessment effort, rapidly identifying the need for corrective action, and supporting property transfer and redevelopment plans. In the case of the landfill sites at FTMM, where a presumptive remedy of containment will be implemented, the streamlined risk assessment is appropriate. See *Conducting Remedial Investigations/Feasibility Studies for CERCLA Municipal Landfill Sites* (USEPA, 1991).

Additionally, USEPA guidance states "One method for establishing risk using a streamlined approach is to compare contaminant concentration levels (if available) to standards that are potential chemical-specific applicable or relevant and appropriate requirements (ARARs) for the given action." (USEPA, 2015. *Presumptive Remedy for CERCLA Municipal Landfill Sites*, viewed at: http://www.epa.gov/superfund/policy/remedy/presump/clms.htm (last accessed January 30, 2015).

The risk ratio approach is a useful surrogate for the RAGS analysis because, as discussed in detail below, there is a direct relationship between the COPC concentration and risk, and therefore cancer and non-cancer risk can be estimated as the ratio of site concentrations to RSLs. The risk ratio approach encompasses the principles and procedures included in USEPA guidance, while streamlining them for evaluating risk and determining the need for corrective action at FTMM landfill sites. The risk assessment process used in this document incorporates the four steps that define a human health risk assessment according to USEPA (1989) (i.e., data evaluation and identification of COPCs, exposure assessment, toxicity assessment, and risk evaluation), as summarized below.

Data Evaluation and Identification of COPCs: This step of the risk assessment process was conducted in a manner consistent with RAGS and the Risk Assessment Handbook. COPCs were identified in environmental media following comparison to published medium-specific screening values and FTMM-specific background concentrations. Those analytes that were detected at the site at concentrations greater than appropriate screening values and that are attributable to site activities were identified as COPCs and included in the risk assessment.

Exposure Assessment: This step of the risk assessment includes identification of relevant receptors and potential exposure pathways. Once relevant receptors and exposure pathways and a potential source of contamination are identified, a conceptual site model (CSM) is developed to define the potential for exposure. Exposure pathways for various media and exposure routes (i.e., ingestion, dermal contact, inhalation) that coincide are determined to be potentially complete and are evaluated in the risk assessment. In this case, exposure pathways may be complete for current and future outdoor workers, future utility workers, and potential future recreational users (as defined by project stakeholders).

The USEPA RSLs are risk-based concentrations that were developed by USEPA to rapidly identify chemicals that have the potential to present human health risks as a result of exposure. The exposures of concern for FTMM-02 include inhalation, ingestion, and dermal contact of outdoor workers, utility workers, and recreational users to COPCs. Site-specific screening levels for exposure of utility workers and recreational users to soil were calculated to support this risk evaluation.

The streamlined risk assessment approach for the FTMM landfills incorporates exposure parameters and toxicity values inherent to the RSLs, along with observed site concentrations, to calculate risks or hazards associated with identified COPCs at the site. The intent is for the conclusions of the risk assessment to represent likely future land use at FTMM.

Toxicity Assessment: This step of the risk assessment identifies toxicity factors that will be used when calculating the risk or hazard associated with exposure to COPCs at the site. In this case the toxicity factors are those either established or used by USEPA to calculate risk estimates and RSLs. Therefore, there are no differences in the toxicity values used in a conventional

RAGS-based approach and the USEPA risk ratio approach conducted for FTMM-02 as described in this report.

Risk Characterization: Cancer risk estimates and noncancer hazard quotients are calculated based on site concentrations, exposure assumptions, and toxicity factors. The RSLs for a given exposure scenario can be used to rapidly determine site-specific cancer risks or hazard estimates for that scenario. RSLs are medium-specific concentrations corresponding to predetermined cancer risk or noncancer hazard estimates (see RSL supporting documentation for further details on calculation of RSLs). A COPC concentration in soil equal to the USEPA RSL will result in a 1×10^{-6} cancer risk and/or a HQ of 1. Because there is a direct relationship between COPC concentrations and risk, cancer risks and/or noncancer hazard quotients can be estimated as the ratio of site concentrations to RSLs. This approach is extended to calculated receptor specific screening levels (i.e., recreational user and utility worker screening levels). Cumulative cancer risk and hazard index estimates resulting from multiple COPCs may then be resolved by summing the ratios. As a streamlined approach, the risk ratio approach does not specifically express the contribution of specific routes of exposure (e.g., ingestion, dermal contact, inhalation) to overall risk, and the risk estimates are limited to the inherent exposure parameters (such as days per year exposed) used in calculating the screening values that are used in calculating the risk ratios. This approach can limit the flexibility of the risk manager in making risk management decisions. The resulting risk estimates do, however, incorporate the noted multiple exposure routes, and are appropriate for making health-based determinations for the landfills.

Comparison of Traditional and Streamlined Risk Assessment Approach

Streamlined Risk Assessment Approach	Traditional Risk Assessment Approach
• Appropriate for simple sites, when generic exposure assumptions are appropriate, and summary risk estimates are sufficient	• Appropriate for complex sites, when site-specific exposure assumptions, and exposure-route specific risk estimates are needed for risk management decisions
• Provides chemical-specific risk estimates that are identical to traditional calculations, when exposure assumptions are the same, and all exposure routes are combined	• Exposure routes (i.e., ingestion, inhalation, dermal) can be evaluated separately
• Streamlined, using simple calculations requiring minimal documentation to support the calculations	• Calculations are more complex and require a greater amount of supporting documentation. However, there is greater flexibility to calculate risk only for those scenarios that are directly applicable to the site.
• Exposure assumptions used in the calculations are consistent with those favored by USEPA	• Allows the use of site-specific exposure assumptions allowing the risk calculations to be tailored to the exact exposure scenarios expected at the site

6.1.3 Organization of the HHRA

The overall risk assessment process consists of four key steps: data evaluation and identification of COPCs, exposure assessment, toxicity assessment, and risk characterization. These four steps of risk assessment provide the general outline of a quantitative risk assessment report. Because this HHRA uses the risk ratio approach, the outline and overall format is slightly modified from the traditional HHRA. This HHRA is still consistent with USEPA guidelines as presented in RAGS (USEPA, 1989) and supporting supplemental guidance including the Standard Scopes of Work for HTRW Risk Assessments (USACE, 2001). This HHRA is organized into five sections (including this one), as outlined below.

6.1 Risk Assessment Process;

6.2 Data Evaluation and Identification of Chemicals of Potential Concern;

6.3 Exposure Assessment;

6.4 Risk Ratio and Screening Criteria Assessment; and

6.5 Risk Assessment Results and Uncertainties.

6.2 DATA EVALUATION AND IDENTIFICATION OF CHEMICALS OF POTENTIAL CONCERN

Soil data included in the risk assessment were collected in 1998 and 1999 (Versar, 2004b). Groundwater data are included from the eight quarterly sampling events and the 2013 Baseline and 2014 Annual LTM Sampling Events. Data validation classified the data through the use of several qualifiers. Data without qualifiers were considered appropriate for risk assessment purposes. Following USEPA guidance (1989), data with J, E or ER, and D qualifiers were treated as detected concentrations and used for risk assessment purposes. U and UJ qualified data were considered to be non-detected, but usable for risk assessment purposes. B and BJ qualified data were treated as non-detected chemicals, because the chemical was detected in the associated blank and the estimated chemical concentration in the sample was not five or ten times greater than the concentration in the associated blank (USEPA, 1989). R qualified data were excluded from this risk assessment (USEPA, 1989).

Calcium, iron, magnesium, potassium, and sodium were not evaluated in the HHRA because they are essential nutrients and are not expected to pose a risk to human health.

COPCs at FTMM-02 are those site-related contaminants for which there is evidence of a potential release due to site activities. COPCs are then evaluated for their potential to pose a risk to human health. Soil, surface water, sediment, and groundwater have been sampled at the site. Sampling results for the chemicals detected in each of the environmental media are summarized in **Tables 4.1 and 4.2** (soil), **Tables 4.4 and 4.5 (**groundwater), **Table 4.7 (**surface water), **and Table 4.9 (**sediment). COPCs were identified in soil (**Table 4.3**) and groundwater (**Table 4.6**). No COPCs were identified in surface water (**Table 4.8**) or sediment (**Table 4.9**). Therefore, surface water and sediment exposure will not be evaluated further in the risk assessment.

6.2.1 Risk Ratio Approach

The quantitative HHRA uses a risk ratio approach to quantify potential cumulative carcinogenic risk and non-carcinogenic hazard for each COPC in each contaminated medium. The general risk assessment process for FTMM-02 is summarized in **Figure 6.1**.

Exposure point concentrations (EPC) are the concentrations of chemicals in a given medium to which a receptor may be exposed at a specific location known as the "exposure point." The maximum detected concentration or the 95% Upper Confidence Limit (UCL) on the mean for each environmental medium was used as the EPC.

To calculate a risk ratio, the EPC is divided by the appropriate screening level for the environmental medium to determine the ratio of the site concentration to a risk-based health protective concentration. Risk ratios are calculated for outdoor workers, utility workers, and recreational users exposed to soil (Section 6.5.1) and for utility workers exposed to groundwater (Section 6.5.2). The criteria used to calculate the risk ratios for outdoor worker exposure to soil were the USEPA Industrial Soil RSLs (TR = 1 x 10^{-6}; THQ = 1.0). The site-specific soil screening levels calculated in support of this project were used to calculate the risk ratios for utility worker and recreational user exposure to soil. The site-specific screening levels for utility workers and recreational users are presented in **Appendix B**.

The criteria used to calculate risk ratios for groundwater were site-specific screening levels calculated in support of this project for utility workers exposed to groundwater. The cumulative risk at FTMM-02 is calculated using the maximum detected concentration from any well. If the cumulative carcinogenic risk for all groundwater samples was risk that may require remedial action (i.e., 1 x 10^{-4}) or if the non-carcinogenic hazard quotient was less than 1, no further evaluation was conducted. If the carcinogenic risk and/or hazard quotient was outside the USEPA acceptable ranges, the risk estimate is further refined to calculate the risk at individual wells. Evaluation of risk for individual wells provides a more accurate representation of exposure, since potential future exposure to groundwater would assume that a utility worker would excavate and encounter groundwater at a specific point, represented by a single well.

After calculating the risk ratios for individual COPCs, the ratios are then summed to determine the cumulative risk for all samples collected at the site. Cumulative non-carcinogenic risk ratios greater than one indicate a potentially unacceptable non-carcinogenic risk. Cumulative carcinogenic risk ratios greater than the upper end of USEPA's risk level of 1 x 10^{-4} that may require remedial action indicate a potentially unacceptable carcinogenic risk.

After the cumulative carcinogenic risk or non-carcinogenic hazards were calculated, the COPCs posing the greatest risk or hazard were identified. These COPCs are the primary contributors to cumulative risk. Initially, the maximum detected concentration of each COPC was used as the EPC. Use of maximum concentrations generally provides a conservative (i.e., health-protective) estimate of exposure to that chemical. However, the use of maximum detected concentrations overestimates the potential exposure, if elevated concentrations of a contaminant are limited to a small portion of a potential exposure area. Therefore, an average site concentration, represented by the 95% Upper Confidence Limit (95% UCL) on the mean, can be used as the EPC. The 95% UCL better represents the concentration that a receptor may be exposed to in a given area over an extended exposure duration. To provide a more accurate estimate of exposure, the 95% UCL is calculated for each primary contributor to cumulative risk. The cumulative risk is then calculated using the 95% UCL in place of the maximum detected concentration for all primary risk drivers. The selected EPCs (maximum detected concentration or the 95% UCL) are identified on the risk ratio tables.

Generally, use of 95% UCL on the mean as the EPC provides a conservative (i.e., health-protective) estimate of exposure, but better represents the concentration that a receptor may be

exposed to over a period of time. Therefore, the 95% UCL is less likely to overestimate the potential exposure than the use of a maximum concentration. The 95% UCL was calculated using parametric methods (for a normal or lognormal distribution) or nonparametric methods if data are not normally or lognormally distributed (USEPA 2002). Data distribution was tested using the Shapiro-Wilk test prior to calculating the 95% UCL. Statistical evaluation was not conducted for analytes with fewer than eight detected concentrations in a data set. 95% UCLs were calculated using ProUCL (Version 5.0) (USEPA, 2013a). ProUCL output, including summary statistics, graphic representations of the data distribution (quantile plot), and outlier tests are provided in **Appendix B.**

Lead is not included in the cumulative risk ratios. Following USEPA guidance, lead is evaluated based on the potential for exposure to increase blood lead levels and not the potential for carcinogenic risk or non-carcinogenic hazards. Therefore, lead concentrations (based on the simple arithmetic mean) at the site are directly compared to the screening level. A ratio of the site concentration to the screening value will be calculated. For soil, the screening value is the Industrial Soil RSL (TR = 1 x 10^{-6}; THQ = 1.0) for outdoor workers, and the calculated site-specific utility worker or recreational user screening levels. If lead concentrations at the site exceed the screening level, then unacceptable risk is assumed. However, if lead concentrations are less than the screening level, then further evaluation of the risk associated with exposure to lead is not required and further management of the risk associated with exposure to lead will not be required.

USEPA's Adult Lead Model (ALM) is the recommended approach for assessing nonresidential adult risks and uses a set of equations that relate soil lead concentrations to blood lead concentrations in women of child-bearing age and their fetuses as a result of chronic exposure (USEPA, 2003a). To determine the screening level for utility workers, the ALM was used, assuming that the utility worker is onsite for 30 days per year, and assumed to have a soil ingestion rate of 330 mg/day. However, recreational users are expected to have intermittent exposures to lead in soil at the site, rather than chronic exposures. Therefore, to determine the appropriate screening level for recreational users at the site, the ALM was modified to address the adolescent and adult (USEPA, 2003b). Recreational users at the site are assumed to be onsite one day per week for 50 weeks of the year. Adolescent recreational users (from ages 6 to 16) are assumed to have a soil ingestion rate of 100 mg/day. While adult recreational users have a soil ingestion rate of 50 mg/day. The ALM output is provided in **Appendix B**.

The ALM assumes a baseline blood lead level to ensure that exposure does not result in exceedances of a target blood lead level when considered additively. The ALM references two different National Health and Nutrition Examination Survey (NHANES) studies that estimated baseline blood lead levels in adults. To determine a soil concentration that would not result in a blood lead level (considering a baseline blood lead level) greater than 10 micrograms per deciliter (µg/dL), the soil concentration is adjusted until the model returns a blood lead level of 10 µg/dL. The ALM can also calculate a preliminary remediation goal (PRG) for women of child-bearing age, assuming a fetal blood lead level of 10 µg/dL. The screening level for the utility worker, is based on the lowest (most conservative) PRG that attains a target fetal blood lead level of 10 µg/dL (1,400 mg/kg). The ALM was also used to calculate a PRG assuming that a pregnant adolescent recreational user contacted lead contaminated soil at the site. This is a conservative approach, since the probability of a pregnant recreational user contacting soil at the site in a manner consistent with the exposure assumptions used in this calculation is quite low.

The lowest (most conservative) PRG that attains a target fetal blood lead level of 10 µg/dL is 2,700 mg/kg, which is protective of the pregnant adolescent recreational user. Therefore, this PRG is used as the screening level for recreational users exposed to lead in soil at the site. If lead concentrations at the site exceed the screening level, then unacceptable risk is possible. However, if lead concentrations are less than the screening level, then further evaluation of the risk associated with exposure to lead is not required and further management of the risk associated with exposure to lead will not be required.

USEPA guidance (USEPA, 1989) also allows elimination of COPCs if they are detected in fewer than 5 percent of the samples in a particular medium. This would require at least 20 samples. However, detection frequency was only qualitatively reviewed on a case by case basis in this HHRA and only following the risk ratio analysis (e.g., infrequently detected chemicals that are driving an unacceptable risk are identified). Thus, constituents were not screened from the HHRA based on detection frequency.

6.2.2 Soil Samples

This HHRA evaluated chemicals identified as COPCs, which includes those analytes attributed to site activities for which there is evidence of a release to environmental media. Organic compounds detected at concentrations greater than screening levels, and metals detected at concentrations greater than screening levels and greater than background concentrations, were identified as COPCs and included in the risk assessment. Surface soil at the site is defined as soil collected at depths less than 2 feet from the surface and would include exposure pathways with no, or very minor, soil disturbance (e.g., wind dispersion of surface soil, landscaping/grounds keeping activities in surface soil). Surface soil samples were collected in 1998 (Versar, 2004a). Each of the soil samples, except those prepared for VOC analysis, were collected between approximately 6 and 12 inches bgs. VOC samples were collected at approximately 24 inches bgs since surface soil would not be expected to retain volatile constituents over time. **Tables 4.1 and 4.2** provide the sampling depths and analytical laboratory results and **Figure 2.2** shows the sampling location. **Table 4.3** identifies the COPCs in soil that are evaluated in the HHRA.

6.2.3 Groundwater Samples

Multiple rounds of groundwater samples were collected from monitoring wells at FTMM-02 (**Figure 1.3**). Many of these samples were collected at the same wells during different time frames and not all sampling activities included analyses for a complete suite of analytes.

The locations of groundwater wells at FTMM-02 are provided on **Figure 1.3**. **Tables 2.1 and 2.2** present the well construction summary and groundwater sampling summary respectively. Groundwater sampling results for data from 2008 through 2011 are presented in **Table 4.4** and groundwater sampling results for data from 2013 and 2014 are presented in **Table 4.5**. This HHRA evaluates chemicals identified as COPCs, which includes those analytes attributed to site activities for which there is evidence of a release to environmental media. Organic compounds detected at concentrations greater than screening levels, and metals detected at concentrations greater than screening levels and greater than background concentrations, were identified as COPCs (**Table 4.6**) and included in the risk assessment.

6.2.4 Surface Water Samples

Eight quarters of surface water monitoring data collected from December 2008 through September 2010 were evaluated for the HHRA (**Tables 4.7 and 4.8**). Sampling locations historically associated with FTMM-02 are shown on **Figure 2.3**. No COPCs were identified in surface water (**Table 4.9**). Therefore, there are no complete exposure pathways for surface water, and no unacceptable risks or hazards due to exposure to surface water are expected.

6.2.5 Sediment Samples

Sediment sampling was conducted in April 2000. Twelve borings were advanced along Mill Creek adjacent to FTMM-02; boring locations are shown on **Figure 2.3** and analytical results are presented in **Table 4.9**. No COPCs were identified in sediment (**Table 4.9**). Therefore, there are no complete exposure pathways for sediment, and no unacceptable risks or hazards due to exposure to sediment are expected.

6.3 EXPOSURE ASSESSMENT

The objective of the exposure assessment is to estimate the type and magnitude of potential exposures to COPCs at the site. The exposure assessment includes identification of potential exposure pathways, receptors, and exposure scenarios, as well as quantification of exposure. Characterization of the exposure setting and identification of potentially exposed receptors and exposure pathways are discussed in this section. A CSM showing results of the exposure assessment is shown on **Figure 6.2**. Quantification of exposure involves quantifying the magnitude, frequency, and duration of exposure for the receptors and exposure pathways of concern.

COPCs were present in soil and groundwater. Therefore, soil and groundwater are evaluated as the environmental media of concern at FTMM-02. The exposure pathways relevant to the site are described in this exposure assessment of the HHRA and shown in the CSM.

6.3.1 Conceptual Site Model

A CSM is an effective tool for defining site dynamics, streamlining risk assessments, establishing exposure hypotheses, and developing appropriate corrective actions. The CSM diagram for FTMM-02 is provided as **Figure 6.2**. CSMs are useful for identifying completed exposure pathways between the contaminated media and potential receptors. The purpose of the CSM is to aid in understanding and describing a site and presents the assumptions regarding:

- Suspected sources and types of contaminants present;
- Contaminant release and transport mechanisms;
- Affected media;
- Potential receptors that could come in contact with site-related contaminants in affected media under current and future land use scenarios; and
- Potential routes of exposure.

An overall description of contaminant sources, affected media, and removal actions was provided in previous Sections. Potential receptors and completed exposure pathways are discussed in the following subsections.

6.3.2 Potential Receptors and Exposure Pathways

Potential human receptors are defined as individuals who may be exposed to site-related contaminants in environmental media. Consistent with USEPA RAGS (1989) guidance, current and reasonably anticipated land uses were considered in the receptor selection process.

USEPA (1989) defines an exposure pathway as: "The course a chemical or physical agent takes from a source to an exposed organism. An exposure pathway describes a unique mechanism by which an individual or population is exposed to chemicals or physical agents at or originating from a site. Each exposure pathway includes a source or release from a source, an exposure point, and an exposure route. If the exposure point differs from the source, a transport/exposure medium (e.g., air) or media (in cases of intermedia transfer) is also included."

A review of potential exposure pathways links the sources, locations, and types of environmental releases with receptor locations and activity patterns to determine the significant pathways of concern.

Observations and reasonable assumptions for the potential human receptors for FTMM-02 are listed below, and summarized in **Figure 6.2**.

- **Current Receptors** – FTMM-02 is a landfill that was used for domestic and industrial waste disposal and was in operation between 1964 and 1968. The Fort Monmouth Economic Redevelopment Planning Authority (FMERPA) reuse plan calls for FTMM-02 to be designated as passive open space (EDAW, Inc., 2008). It is currently vacant and unused. There are no new development activities occurring. Current activities at the site include infrequent visits to the site, such as those that would be performed during routine landscaping/mowing, resulting in exposure to COPCs in soil through incidental ingestion, dermal contact, and inhalation of volatiles and particulates. Exposure to soil by an outdoor worker is assumed for this current land use scenario. This calculation assumes an exposure frequency of 225 days per year and an exposure duration of 25 years. Thus, it provides a conservative evaluation for a potential current outdoor worker who would be expected to have less frequent exposure at this particular site. Surface water runoff from the western part of the MP flows into Lafetra Creek to the north or into Mill Creek to the south. The surface water is not used as a potable water supply. Incidental ingestion of surface water/sediment, inhalation of volatiles from surface water/sediment, and dermal contact with surface water/sediment were assumed for this current land use scenario. However, no COPCs were identified in surface water or sediment at the site. Therefore, current exposure to surface water/sediment are incomplete pathways.
- **Future Receptors** – Evaluation of the outdoor worker as a current receptor would be protective of future outdoor workers as well and is not re-evaluated for the future scenario. There are no current plans to develop commercial buildings at the site, but if commercial buildings were constructed in the future, then indoor workers would potentially be exposed to soil. Evaluation of the current outdoor worker would also protect the hypothetical future indoor commercial worker because indoor commercial worker exposure to soil would be much less than the outdoor worker. Thus, the indoor worker exposure scenario was considered to be conservatively evaluated by the above current outdoor worker scenario. Future utility workers may be present on

the site, involved in single short-term excavation projects at a given location, such as would be expected to be associated with repair or installation of utility lines. The calculation of the exposure of a utility worker to soil assumes that the utility crew would not return to the same location to conduct additional repairs, installation, or maintenance of underground utility lines. Utility workers are assumed to be on-site for 30 days of the year, over the course of one year and would be expected to come in contact with soil and shallow groundwater during excavation activities. Utility workers may also come in contact with surface water and sediment. However, surface water and sediment pathways are evaluated for the outdoor worker, which would be protective of the utility worker, since the exposure duration for outdoor workers is longer than for utility workers. No COPCs were identified in surface water or sediment at the site. Therefore, future exposure to surface water and sediment are incomplete pathways for all receptors. The FMERPA reuse plan calls for FTMM-02 to be designated as passive open space. Because the site is planned to be passive open space, a future recreational user could be exposed to COPCs in the soil. The calculation of the exposure of a recreational user to soil assumed that the person is onsite once a week for 50 weeks of the year, for 24 years. Further, the site-specific screening value for the recreational user assumes that a portion of the time is spent on the site as an adolescent (age 6 to 16) and a portion as an adult (age 17 to 30). This provides a conservative evaluation for a future recreational user that is not likely to be onsite every week of the year. The site is not residential and no plans are in place to convert it to residential use. Therefore, the future residential scenario was not further evaluated.

- **Current Exposure to Groundwater –** Site groundwater is not used by current outdoor workers or indoor workers, because municipal water is provided for use. Therefore, there are no current exposures to groundwater.
- **Future Exposure to Groundwater** – In areas with shallow groundwater (i.e., groundwater present at depths less than 15 ft bgs), utility workers may also be exposed to contaminants present in groundwater. Future utility workers may be present on the site, involved in single short-term excavation projects at a given location, such as would be expected to be associated with repair or installation of utility lines. The calculation of the exposure of a utility worker to groundwater assumes that the utility crew would not return in subsequent years to the same location to conduct additional repairs, installation, or maintenance of underground utility lines. Utility workers are assumed to be on-site for 30 days of the year, over the course of one year. Outdoor workers, indoor workers, and recreational users are not exposed to groundwater. Therefore, the outdoor worker, indoor worker, and recreational user groundwater exposure pathways are incomplete. The site is not planned for future residential use. Therefore, future residential exposure to groundwater is an incomplete exposure pathway.

6.3.3 Exposure Pathways

6.3.3.1 Soil Exposure Pathways

Exposure to site soil occurs by direct contact (ingestion and dermal contact) with site soil and wind dispersion of soil resulting in inhalation of contaminants. The receptors and pathways evaluated for soil are listed below.

- Incidental ingestion of soil, inhalation of volatiles and particulates from soil, and dermal contact with soil by a current outdoor worker. This calculation assumes an exposure frequency of 225 days per year and an exposure duration of 25 years (USEPA, 2013b). Thus, it provides a very conservative evaluation for a potential current outdoor worker who would be expected to have much less exposure at this particular site;
- Incidental ingestion of soil, inhalation of volatiles and particulates from soil, and dermal contact with soil by a future outdoor worker. This is a potentially complete exposure pathway but is not included in the risk ratio analysis because it is assumed to be conservatively evaluated under the current outdoor worker scenario (based on the exposure frequency and exposure duration);
- Incidental ingestion of soil, inhalation of volatiles and particulates from soil, and dermal contact with soil by a future utility worker. This calculation assumes an exposure frequency of 30 days per year, and an exposure duration of one year; and,
- Incidental ingestion of soil, inhalation of volatiles and particulates from soil, and dermal contact with soil by a future recreational user. This calculation assumes an exposure frequency of 50 days per year (one time per week), for 24 years. Further, the calculation assumes that a portion of the recreational user exposure occurs as an adolescent (age 6-16) and a portion as an adult (age 17-30). Thus, it provides a conservative evaluation for a future recreational user that is expected to be onsite less frequently than one time per week.

6.3.3.2 Groundwater Exposure Pathways

Exposure to groundwater can occur through direct contact (ingestion and dermal contact) and through inhalation of volatile COPCs present in groundwater. FTMM-02 is currently vacant and unused and the future land use is planned as “open space” and expected to remain undeveloped, with occasional maintenance activities. There are no supply wells present onsite and none are planned. All potable water is provided through municipal water supplies. However, if future utility workers encountered groundwater during construction activities, exposure to contaminants in groundwater may occur through incidental ingestion, dermal contact, and inhalation of volatiles. This calculation assumes an exposure frequency of 30 days per year, and an exposure duration of one year.

6.3.3.3 Surface Water and Sediment Exposure Pathways

Surface water runoff from the western part of the MP flows into Lafetra Creek to the north or into Mill Creek to the south. Surface water is not used as a potable water source. No COPCs were identified in surface water or sediment, so the surface water and sediment exposure pathways are incomplete.

6.4 RISK RATIO AND SCREENING CRITERIA ASSESSMENT

This HHRA used a risk ratio approach to quantify potential carcinogenic risk and non-carcinogenic hazard for each chemical identified as a COPC. This section describes the risk ratio assessment used in this HHRA.

6.4.1 Risk Ratio Assessment

The risk ratio method considered risk due to exposure to soil at FTMM-02. For the risk ratio assessment, the EPC, either the maximum detected concentrations or the 95% UCL (as defined in Section 6.2.1), was used to calculate risk for soil and groundwater.

In the risk ratio analysis, the EPC was divided by the appropriate screening level (as described in Section 6.2.1) for the environmental medium to calculate the risk ratio. The risk ratio for soil was calculated for outdoor workers, utility workers, and recreational users. The risk ratio screening levels for soil are the USEPA Industrial Soil RSLs (TR = 1 x 10^{-6}; THQ = 1.0), site-specific screening levels for utility workers, and site-specific screening levels for recreational users. The risk ratio screening levels for groundwater are the site-specific screening levels for utility workers.

Following calculation of the risk ratios for individual chemicals, the ratios were then summed to determine the cumulative risk due to exposure to each medium. Cumulative non-carcinogenic risk ratios greater than 1 (one) indicate a potential unacceptable non-carcinogenic risk. Cumulative carcinogenic risk ratios greater than the upper end of USEPA's acceptable risk range of 1 x 10^{-4} to 1 x 10^{-6} indicate a potential unacceptable carcinogenic risk.

6.4.2 Risk Ratio Equations

Carcinogenic risks were estimated using the following equation.

$$\text{Cumulative Risk} = \sum (TR)\frac{(EPC_i)}{SL_{c-i}}$$

where:

Cumulative Risk	=	Cumulative risk for carcinogenic COPCs one through "i" (unitless), where $(TR)\frac{(EPC_i)}{SL_{c-i}}$ is the chemical-specific carcinogenic risk for chemical "i";
TR	=	Target lifetime excess carcinogenic risk of 10^{-6} (unitless);
EPC_i	=	Exposure point concentration for chemical "i" (mg/kg for soil) (µg/L for groundwater);
SL_{c-i}	=	Medium–specific human health screening level (i.e., USEPA RSL) (mg/kg for soil) (µg/L for groundwater) for carcinogenic chemical "i".

Non-carcinogenic risks were estimated using the following equation.

$$HI = \sum (THQ) \frac{(EPC_i)}{SL_{nc-i}}$$

where:

HI = Cumulative hazard index for non-carcinogenic COPCs one through "i" (unitless), where $(THQ)\frac{(EPC_i)}{SL_{nc-i}}$ is the chemical-specific non-carcinogenic hazard quotient (HQ) for chemical "i";

THQ = Target hazard quotient of one (unitless);

EPC_i = Exposure point concentration for chemical "i" (mg/kg for soil)(µg/L for groundwater); and

SL_{nc-i} = Medium-specific human health screening levels (i.e., USEPA RSL) (mg/kg for soil) (µg/L for groundwater) for non-carcinogenic chemical "i".

6.4.3 Screening Criteria

6.4.3.1 Soil Screening Criteria

The soil results were evaluated using USEPA Industrial RSLs for outdoor workers, site-specific screening levels for utility workers, and site-specific screening levels for recreational users. The USEPA RSL is based on the combined exposure (i.e., incidental ingestion of soil, dermal contact and inhalation of particulates and volatiles). The utility worker and recreational user screening levels were calculated using the USEPA RSL calculator, based on site-specific exposure parameters (USEPA, 2013b). The equations and inputs used in the calculator are provided in **Appendix B**. The calculated utility worker and recreational user screening levels are based on combined exposure (i.e., incidental ingestion, dermal contact, and inhalation of particulates and volatiles). The exposure parameters for utility workers assumed exposure of 30 days per year, over the duration of one year. The utility worker is assumed to be an adult. The exposure parameters for recreational users assumed exposure of one time per week. Thus, there are 50 exposure events per year for 24 years. Further, the recreational user is expected to be onsite partially as an adolescent (age 6 to 16 years) and partially as an adult (age 17 to 30). The exposure parameters used in the utility worker and recreational user screening levels calculations are shown in **Appendix B**. The outdoor worker screening levels are provided in the USEPA Industrial RSL tables, but for comparison, the exposure parameters for the outdoor worker are also shown in **Appendix B**. The USEPA RSL table indicates whether a chemical is carcinogenic, non-carcinogenic, or both. If a chemical is considered both carcinogenic and non-carcinogenic, it will be included in the cumulative cancer risk calculation and the cumulative hazard quotient calculation.

6.4.3.2 Groundwater Screening Levels

The site-specific screening levels calculated in support of this project used exposure parameters for utility workers which assumed exposure of 30 days within one year. The utility worker is assumed to be an adult. The exposure parameters used in the utility worker screening level calculations are shown in **Appendix B**. The USEPA RSL table indicates whether a chemical is carcinogenic, non-carcinogenic, or both. If a chemical is considered both carcinogenic and non-carcinogenic, it will be included in the cumulative cancer risk calculation as well as the cumulative hazard quotient calculation.

6.5 RISK ASSESSMENT RESULTS AND UNCERTAINTIES

The primary objective of this HHRA was to quantitatively characterize the human health risk and hazard associated with current and reasonably expected future exposure to contaminated media at FTMM-02. As discussed in Section 6.3, potentially complete exposure pathways for the site were evaluated. The exposure pathways are outlined in Section 6.3 and are also shown on the CSM (**Figure 6.2**). The results of the risk ratio quantification are presented in this section.

6.5.1 Estimated Risks for Soil

The risk ratio calculations for potential exposure to soil by a current and future outdoor worker are shown in **Table 6.1,** by a future utility worker are shown in **Table 6.2**, and by a future recreational user are shown in **Table 6.3**.

No unacceptable hazards were calculated for the non-carcinogenic COPCs in soil at FTMM-02, using the maximum detected concentrations or the 95% UCL for those COPCs that are the greatest contributors to cumulative risk. The cumulative hazard for outdoor workers was 0.8 (**Table 6.1**), the cumulative hazard for utility workers was 0.3 (**Table 6.2**), and the cumulative hazard for future recreational users was 0.1 (**Table 6.3**). The cumulative hazards are less than 1. Therefore, no potential non-carcinogenic effects are expected from exposure to soil at FTMM-02.

As previously discussed, lead was evaluated separately from the other chemicals. The maximum detected concentration of lead provides a ratio greater than one, however, when the 95% UCL is used as the EPC (to provide a more accurate estimate of exposure) the ratio was 0.08 for outdoor workers (**Table 6.1**), 0.05 for utility workers (**Table 6.2**), and 0.02 for recreational users (**Table 6.3**). Therefore, no potential effects are expected from exposure to lead in soil at FTMM-02.

The cumulative carcinogenic risk ratio for outdoor workers was 9×10^{-5}, the cumulative carcinogenic risk ratio for future utility workers was 1×10^{-6}, and the cumulative carcinogenic risk ratio for future recreational users was 3×10^{-5}. The calculated cumulative risk for all receptors is less than 1×10^{-4}, which is the cancer risk above which a remedial action may be required. Therefore, unacceptable carcinogenic risk associated with exposure to soil for outdoor workers, utility workers, and recreational users is unlikely.

6.5.2 Estimated Risks for Groundwater

The calculated risk ratios for exposure of a future utility worker to COPCs detected in groundwater from any well on site are shown in **Table 6.4**.

No unacceptable hazards are calculated for the non-carcinogenic COPCs analyzed in groundwater at FTMM-02. The cumulative hazard for future utility workers is 0.02 (**Table 6.4**). Cumulative hazards for potential future receptors are less than 1. Therefore, no potential non-carcinogenic risk are expected from exposure to groundwater.

The cumulative carcinogenic risk ratio for utility workers is 7×10^{-9}. The calculated cumulative risk is less than 1×10^{-4}, which is the cancer risk above which a remedial action may be required (**Table 6.4**). Therefore, unacceptable carcinogenic risk associated with exposure to groundwater for future utility workers is unlikely.

6.5.3 Risk Assessment Uncertainties

All risk assessments involve use of assumptions, professional judgments, and imperfect data to varying degrees, which result in uncertainty in the final estimates of risk. Risk assessment in general is often based on conservative assumptions and scenarios. Uncertainty can be introduced into a risk assessment at every step of the process outlined in this document. Uncertainties are present in a risk assessment because it requires integration of the following:

- Release of constituents into the environment, and the areal and vertical distribution of these materials in soil;
- Fate and transport of constituents in a variety of different and variable environments by processes that are often poorly understood or too complex to quantify accurately;
- Potential for adverse health effects in humans based on extrapolations from animal studies; and
- Probability of adverse effects in a human population that is highly variable with respect to genetics, age, activity level, and lifestyle.

This section qualitatively describes the inherent and site-specific uncertainties of the assessments process.

6.5.3.1 Uncertainty in Data Collection and Evaluation

The analysis of uncertainties focuses on determining whether the available data are representative of contaminant concentrations and site conditions, and whether features of sampling, analyses, or statistical treatment of the data result in an over- or underestimation of potential risk.

Constituents detected in soil at the site and included in the risk assessment were retained regardless of how frequently they had been detected. EPA's ProUCL 5.0 will calculate UCLs for datasets with small sample sizes in order to accommodate the Incremental Sampling Method (USEPA, 2013). Because the soil samples collected at FTMM-02 were collected as discrete samples, not all UCLs calculated or suggested by ProUCL are appropriate for use in the risk calculations. Parametric and non-parametric methods (i.e., Chebyshev [Mean, Sd], KM [Percentile Bootstrap], KM [Chebyshev], Adjusted Gamma KM, and Approximate Gamma KM,) were used to determine the 95% UCL for the analytes with six or more samples. For analytes with six samples or less, or if ProUCL generated a warning with regards to unreliable statistics, the maximum detected concentration was used as the exposure point concentration. The use of the maximum detected concentration introduces uncertainty into the risk assessment, since the use of one analytical result likely does not accurately represent the concentration of the

constituent in the volume of soil that is being evaluated. In cases where the analyte is infrequently detected, the use of the maximum concentration will likely overestimate the actual exposure point concentration, resulting in an overestimate of the risk. In cases with few total samples, the use of the maximum detected concentration can either over- or underestimate the exposure concentration depending on the distribution of the actual concentrations in the medium of concern.

USEPA has researched how to determine the appropriate method for calculating a 95% UCL based on the data distribution, data set size, skewness, and percentage of non-detect observations. The ProUCL output included in **Appendix B** states, "Suggestions regarding the selection of a 95% UCL are provided to help the user select the most appropriate 95% UCL." ProUCL generates UCLs using all available methods for each data set, regardless of the appropriateness of the method. The results listed under "Suggested UCLs to Use" are the results recommended by ProUCL based on data size, data distribution, and skewness of the data set, as well as the results of simulation studies. Where more than one result was listed in the ProUCL output in "Suggested UCLs to Use", the most conservative (highest) of the recommended "Suggested UCLs to Use" was selected for use as the EPC. This is a default selection made without regard to scientific validity. The use of the most conservative UCL may overestimate the EPC and, therefore, the risk.

Detected analytes that do not have screening values are not identified as COPCs. If these analytes are present in environmental media, not including them in the risk assessment may underestimate the risk for exposure to that medium.

Chemicals that were never detected in any samples were eliminated from the HHRA. It is possible that some chemicals may have been present in samples below the sample quantization limit and not retained in the risk assessment. However, because samples were collected from areas where concentrations were expected to be high and because maximum detected concentrations or 95% UCLs were used in the HHRA comparisons, it is very unlikely that chemicals were present at health-significant levels and not detected in at least one sample.

6.5.3.2 Uncertainty in Exposure Assessment

The risk assessment estimates are conditional on actual and potential exposure pathways identified at the site. If exposure does not occur, no risks are present. Furthermore, the risk assessment process does not factor in the probability of exposure occurring. For example, there may not be a reason for an outdoor worker to be present on site 225 days per year. The actual exposure for the potential landscaper/groundskeeper is likely to be less often than 225 days per year.

Current land uses and characterization of the site's current physical setting provided the basis for predicting future land use at and in the vicinity of the site. Steady-state conditions were assumed for evaluation of potential future exposures. The assumption of steady-state conditions may tend to overestimate long-term exposure and health risk because contaminant concentrations may decline over time due to natural dissipation processes. In some cases, depending on the contaminant and or the release mechanisms involved, steady-state assumptions could potentially underestimate risk (e.g., a continuous source contributing to contamination in another media).

There is also some concern as to how well an exposure scenario approximates the actual conditions that a receptor may be exposed to at a given site. Potential human exposures could

deviate from those used in the risk assessment through differences in exposure frequency, contact rates, exposure durations, body weight, and life span. Each of these factors has a degree of uncertainty associated with it that could over- or underestimate risk.

Evaluation of risk for recreational user exposure to soil includes calculation of the risk to adolescents. Other sensitive subpopulations such as children, elderly people, pregnant or nursing women, and people with chronic illnesses were not specifically evaluated in this risk assessment. These subpopulations may be more sensitive to certain chemical exposures. However, USEPA generally considers sensitive subpopulations when developing toxicity factors. Additionally, there are no daycare or school facilities, healthcare facilities onsite, nursing homes, retirement communities, or residential areas with children or adolescents onsite currently.

6.5.3.3 Uncertainty in Toxicity Assessment

Some uncertainty is also inherent in the toxicity values used in the risk assessment. Carcinogenic slope factors and route-specific values were derived only for compounds that have been shown to cause an increased incidence of tumors in either human or animal studies. This dose-response curve is then assumed to be linear at low doses (e.g., those found in situations of environmental contamination) and is used to predict tumor incidence at low exposure levels. When an animal study is used, the final slope factor is adjusted to account for extrapolation of animal data to humans. If the studies used to derive the slope factor were conducted for less than the life span of the test organism, the final slope factor had also been adjusted to reflect risk associated with lifetime exposure. The chronic RfD for a compound is based on studies where either human or animal populations were exposed to a given compound by a given route of exposure for a major portion of the life span (as a USEPA guideline, seven years to a lifetime; USEPA, 1989). RfDs are derived by determining dose-specific effect levels from available quantitative studies and applying uncertainty factors to the most appropriate effect level to determine a RfD for humans. The slope factors and RfD for compounds are used to calculate the default USEPA RSLs or the calculated recreational user screening levels for soil, and are used to calculate the USEPA Tapwater RSLs. The screening levels are then based on conservative assumptions, and tend to overestimate risk.

6.5.3.4 Uncertainty in Estimating Chemical Risk

The expression of the potential risk associated with contaminants detected at the site is a result of the combined steps of data evaluation, exposure assessment, and toxicity assessment. This combination can magnify the uncertainties present in these steps of the HHRA process.

Screening criteria are developed using very conservative (health-protective) exposure and intake assumptions. The HHRA comparisons also use conservative concentrations of the chemicals detected at the site. In addition, screening criteria used in the HHRA are considered health-protective for carcinogenic and non-carcinogenic chemical mixtures. Carcinogenic chemicals correspond to the conservative 1×10^{-6} (one in a million) excess cancer risk level, providing a very protective screening value. Non-carcinogens use a THQ of 1 and also account for the cumulative non-cancer risk for chemicals with the same toxic endpoint or mechanism of action.

6.5.4 Conclusions

The HHRA was conducted to evaluate the potential for human health impacts as a result of potential exposures to chemicals in soil and groundwater at FTMM-02.

The cumulative carcinogenic risks and non-carcinogenic hazards estimated for current and future outdoor workers, future utility workers, and future recreational user exposure to soil are as follows.

- For outdoor workers exposed to soil at FTMM-02, the cumulative carcinogenic risk of 9×10^{-5} is less than 1×10^{-4}, above which a remedial action may be required. The cumulative non-carcinogenic hazard is 0.8, which is less than the cumulative hazard goal of 1. Lead was evaluated separately from carcinogenic and non-carcinogenic COPCs. The ratio of the lead concentration in soil to the screening value is 0.08, which is less than 1. These results indicate that unacceptable carcinogenic risk, unacceptable non-carcinogenic hazard, or hazards from exposure to lead in soil are unlikely for future outdoor workers. Therefore, no potential non-carcinogenic or carcinogenic effects to outdoor workers are expected from exposure to soil at FTMM-02;
- For utility workers exposed to soil at FTMM-02, the cumulative carcinogenic risk of 1×10^{-6} is less than the cancer risk, above which a remedial action may be required (i.e., 1×10^{-4}). The cumulative non-carcinogenic hazard is 0.3, which is less than the cumulative hazard goal of 1. Lead was evaluated separately from carcinogenic and non-carcinogenic COPCs. The ratio of the lead concentration in soil to the screening value is 0.05, which is less than 1.These results indicate that unacceptable carcinogenic risk, unacceptable non-carcinogenic hazard, or hazards from exposure to lead in soil are unlikely for future utility workers. Therefore, no potential non-carcinogenic or carcinogenic effects to utility workers are expected from exposure to soil at FTMM-02;
- For recreational users exposed to soil at FTMM-02, the cumulative carcinogenic risk of 3×10^{-5} is less than 1×10^{-4}, above which a remedial action may be required. The cumulative non-carcinogenic hazard is 0.1, which is less than the cumulative hazard goal of 1. Lead was evaluated separately from carcinogenic and non-carcinogenic COPCs. The ratio of the lead concentration in soil to the screening value is 0.02, which is less than 1. These results indicate that unacceptable carcinogenic risk, unacceptable non-carcinogenic hazard, or hazards from exposure to lead in soil are unlikely for future utility workers. Therefore, no potential non-carcinogenic or carcinogenic effects to recreational users are expected from exposure to soil at FTMM-02;
- For utility workers exposed to groundwater, the cumulative carcinogenic risks for all wells is 7×10^{-9}, which is less than 1×10^{-4}, above which a remedial action may be required. The cumulative non-carcinogenic hazard for all wells is 0.02, which is less than the cumulative hazard goal of 1. Therefore, no potential non-carcinogenic or carcinogenic effects to utility workers are expected from exposure to groundwater at FTMM-02. Therefore, no potential non-carcinogenic or carcinogenic effects to utility workers are expected from exposure to groundwater at FTMM-02.

SECTION 7
REMEDIAL INVESTIGATION SUMMARY

7.1 NATURE AND EXTENT OF CONTAMINATION

The nature and extent of targeted constituents exceeding NJDEP and/or USEPA comparison criteria in sampled media at FTMM-02 are summarized below.

7.1.1 Soil

Soil samples were collected at FTMM-02 during RI sampling activities between November 1998 and March 2000 as part of three investigations: a PCB soil investigation, a VOCs soil investigation, and a near-surface soil investigation. Although some of the soil borings are shared for the VOC and near surface soil investigations, the samples that were collected at different depths. Concentrations of the following constituents exceeded the current NJDEP RDCSRS and/or USEPA Residential Soil RSL in at least one soil sample:

- The VOC chloroform;
- The SVOCs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene;
- The pesticides 4,4'-DDT, dieldrin, and 4,4'-DDE;
- The PCBs Aroclor 1016, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260, and total PCBs; and
- The metals aluminum, antimony, arsenic, cadmium, cobalt, copper, iron, lead, manganese, mercury, nickel, thallium, vanadium, and zinc.

Concentrations of the following constituents exceeded the current NJDEP NRDCSRS and/or USEPA Industrial Soil RSL in at least one soil sample:

- The VOC chloroform;
- The SVOCs benzo(a)anthracene, benzo(b)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and dibenz(a,h)anthracene;
- The PCBs Aroclor 1016, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260, and total PCBs; and
- The metals arsenic, cadmium, cobalt, iron, manganese, and lead.

Concentrations of the following constituents exceeded the current NJDEP IGW Screening Level and/or USEPA Groundwater Protection RSL in at least one soil sample:

- The VOCs acetone, benzene, carbon disulfide, chlorobenzene, chloroform, ethyl benzene, methyl ethyl ketone, methylene chloride, toluene, and total xylenes;
- The SVOCs 2-methylnaphthalene, acenaphthene, azobenzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, dibenz(a,h)anthracene, dibenzofuran, di-n-butylphthalate, indeno(1,2,3-cd)pyre, naphthalene, and pyrene;
- The pesticides 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-chlordane, dieldrin, endrin, gamma-BHC, and gamma-chlordane;

- The PCBs Aroclor 1016, Aroclor 1242, Aroclor 1248, Aroclor 1254, Aroclor 1260, and total PCBs; and
- The metals aluminum, antimony, arsenic, barium, beryllium, cadmium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc.

The maximum-detected concentrations of the metals targeted for analysis exceed the maximum background concentrations for the MP presented in Weston (1995). Therefore, none of the metals can be assumed to be representative of natural background conditions at the soil boring locations.

7.1.2 Groundwater

Previous reports identified benzene, chlorobenzene, and TBA as the primary constituents of concern in FTMM-02 groundwater. During the eight quarters of monitoring and the 2013 and 2014 Sampling Events, concentrations of the following constituents exceeded the current NJDEP GWQS and/or USEPA Tapwater RSLs in at least one sample:

- The VOCs 1,1,2-trichloroethane, 1,4-dichlorobenzene, benzene, chlorobenzene, ethyl benzene, MTBE, TBA, and naphthalene; and
- The metals aluminum, antimony, arsenic, barium, beryllium, cadmium, copper, chromium, cobalt, copper, iron, lead, manganese, mercury, selenium, sodium, silver, thallium, vanadium, and zinc.

The metals detected at concentrations exceeding their NJDEP GWQS and/or USEPA Tapwater RSL and also the maximum background concentration for the MP established by Weston (1995) include antimony, arsenic, barium, beryllium, copper, iron, manganese, mercury, selenium, silver, sodium, and zinc. However, iron and sodium are essential human nutrients, and were eliminated as COPCs. Other metals that exceeded their NJDEP GWQS and/or USEPA Tapwater RSL were determined to be representative of background conditions. A detailed discussion of background metals in groundwater was provided in Section 4.2.

COPCs in groundwater that were evaluated in the risk assessment include the VOCs benzene, chlorobenzene, 1,4-diclorobenzene, MTBE, and naphthalene. As presented by the NJDEP in a comment letter dated July 3, 2014, regarding the August 2013 Baseline Groundwater Sampling Report, metals present in groundwater are reflective of natural background conditions rather than constituents of concern associated with the landfill. Manganese was the only metal retained as a COPC, and evaluated in the risk assessment based on exceedances of the USEPA Tapwater RSL and maximum background that occurred in multiple rounds of sampling at M2MW01, M2MW02, M2MW03, M2MW06, M2MW09, M2MW16, M2MW21 and M2MW24.

7.1.3 Surface Water

During the most recent eight quarters of monitoring (December 2008 through September 2010), concentrations of the following constituents exceeded the current NJDEP SWQS and/or USEPA NRWQC in at least one sample:

- The VOCs PCE and TCE; and
- The metals antimony, arsenic, lead, and mercury.

During the most recent eight quarters of surface water sampling (December 2008 through September 2010), PCE and TCE exceeded only the SWQS in similar concentrations in both upstream and downstream locations (SS-15 and SS-24). SS-15 is located at the boundary of the MP and indicates that there is likely a source beyond the boundary of the FTMM MP. The concentrations in downstream location SS-24 were generally about the same, or slight lower than those upstream in SS-15.

Metals exceeded SWQS and NRWQS in upstream location (SS-15) and no downstream location was sampled for metals. Therefore, metal detections are not considered as on-site source of contamination. There are no site-related COPCs in surface water associated with FTMM-02.

7.1.4 Sediment

Sediment sampling was conducted in April 2000 in Mill Creek to evaluate PCB-related impacts to stream sediments associated with FTMM-02. Aroclor 1254 was detected in one of 12 samples at a concentration of 0.047 mg/kg. The sediment sample was collected on an upstream location. Therefore, it is likely that one or more sources upstream or otherwise outside of FTMM-02 have contributed PCBs to the sediments in Mill Creek. There are no site-related COPCs in sediment associated with FTMM-02.

7.2 CONTAMINANT FATE AND TRANSPORT

Detected constituents of interest in terms of contaminant fate and transport at FTMM-02 include VOCs in vadose zone soil. The migration route of interest includes dissolution of soluble residual concentrations in the vadose zone into infiltrating precipitation that percolates through vadose zone soil to the water table. SVOCs, pesticides, PCBs, and metals in near-surface vadose zone soil at FTMM-02 are expected to be relatively persistent and immobile, limiting their impact on groundwater quality.

VOCs that dissolve into groundwater are expected to be moderately to highly mobile and transported laterally with advective groundwater flow, although some sorption to aquifer matrix materials will occur. Highly chlorinated solvents such as PCE have a higher sorption potential than less chlorinated solvents such as vinyl chloride, and the migration of PCE in groundwater will be more retarded as a result. VOC concentrations in the saturated zone will attenuate over time as a result of destructive and non-destructive attenuation mechanisms.

Metals in groundwater will likely be moderately to highly sorbed to aquifer matrix materials and thus have less mobility than VOCs, but their mobility in groundwater is dependent on too many metal- and site-specific factors to predict with confidence. The presence of abundant iron in soil may enhance sorption of metals to the soil matrix in the saturated zone.

As the mass of bioavailable organic carbon (e.g., landfilled organic waste) at FTMM-02 becomes depleted, the groundwater system will likely become more oxidizing, and concentrations of manganese in groundwater should decrease.

7.3 BASELINE RISK ASSESSMENT

An evaluation of the potential risk resulting from human exposure to soil, surface water, sediment, and groundwater was conducted as part of this RI. No COPCs were identified in surface water or sediment. Therefore, further evaluation of surface water and sediment in the risk assessment was not conducted. The human health risk assessment utilized a conservative

approach that assumed exposure to the maximum detected concentration or the 95% UCL of analytes detected in soil and groundwater.

For outdoor workers exposed to soil at FTMM-02, the cumulative carcinogenic risk of 9×10^{-5} is less than 1×10^{-4}, above which a remedial action may be required. The cumulative non-carcinogenic hazard is 0.8, which is less than the cumulative hazard goal of 1. The risk ratio for lead is 0.08, which is also less than 1. Therefore, no potential non-carcinogenic or carcinogenic effects or effects due to exposure to lead for outdoor workers are expected from exposure to soil at FTMM-02.

For utility workers exposed to soil at FTMM-02, the cumulative carcinogenic risk of 1×10^{-6} is less than 1×10^{-4}, above which a remedial action may be required. The cumulative non-carcinogenic hazard is 0.3, which is less than the cumulative hazard goal of 1. The risk ratio for lead is 0.05, which is also less than 1. Therefore, no potential non-carcinogenic or carcinogenic effects or effects due to exposure to lead for utility workers are expected from exposure to soil at FTMM-02.

For recreational users exposed to soil at FTMM-02, the cumulative carcinogenic risk of 3×10^{-5} is less than 1×10^{-4}, above which a remedial action may be required. The cumulative non-carcinogenic hazard is 0.1, which is less than the cumulative hazard goal of 1. The risk ratio for lead is 0.02, which is also less than 1. Therefore, no potential non-carcinogenic or carcinogenic effects or effects due to exposure to lead for recreational users are expected from exposure to soil at FTMM-02.

For utility workers exposed to groundwater, the cumulative carcinogenic risks for all wells is 7×10^{-9}, which is less than 1×10^{-4}, above which a remedial action may be required. The cumulative non-carcinogenic hazard for all wells is 0.02, which is less than the cumulative hazard goal of 1. Therefore, no potential non-carcinogenic or carcinogenic effects to utility workers are expected from exposure to groundwater at FTMM-02.

SECTION 8
CONCLUSION

The RI concluded that risks to human health and the environment from soil and groundwater are within acceptable ranges for current and future intended land use. A FS was not performed because the RI concluded that no further action is required at FTMM-02 under CERCLA.

Although risks from soil, which included an assessment of PCBs in soil, are within acceptable ranges, there are areas at FTMM-02 where PCBs were detected. The presence of PCBs in soil requires further consideration based on the NJDEP Guidance on Coordination of NJDEP and USEPA PCB Remediation Policies (NJDEP, 2013). Under the current NJDEP Site Remediation Program (SRP) policy, in a non-residential or restricted use scenario such as site FTMM-02, PCBs detected at concentrations greater than 0.2 mg/kg require a deed notice and when above 1 mg/kg, requires a deed notice and cap. However, the NJDEP SRP policy since 1993 allows for contaminants with appropriate institutional and engineering controls to be non-permanently remediated as long as the remedy is found to be protective of human health and the environment.

TSCA provides federal PCB remediation requirements, regulated by the USEPA, which must be coordinated with the NJDEP SRP policy during PCB remediation projects. The TSCA regulations are principally found in 40 CFR Part 761. TSCA does not regulate PCBs at concentrations less than 50 ppm. At concentrations greater than 50 ppm PCBs, TSCA stipulates a range of self-implementing cleanup levels based upon contaminated media and future high and low occupancy scenarios that are identified in 40 CFR § 761.61(a)(4). FTMM-02 is considered low occupancy under TSCA, which has a cleanup level of 25 ppm. Bulk remediation wastes in low occupancy areas may remain between 25 and 50 ppm if the site is secured by a fence and marked with a sign including the ML mark, or remain between 25 and 100 if the site is covered with a cap meeting the requirements of paragraphs 40 CFR 761.61(a)(7) and 761.61 (a)(8).

Since NJDEP SRP policy allows for contaminants with appropriate institutional and engineering controls to be non-permanently remediated as long as the remedy is found to be protective of human health and the environment, and TSCA considers sites such as FTMM-02 to be remediated if PCB concentrations do not exceed 25 ppm; a limited excavation will be conducted at FTMM-02 to remove soils with PCB concentrations in excess of 25 ppm. A pre-design investigation (PDI) will be conducted prior to limited PCB removal action to determine lateral and vertical extent of PCB concentrations greater than 25 mg/kg.

After removal of isolated areas with concentrations of PCBs exceeding 25 ppm, a vegetated soil cover or functional equivalent will be placed over the landfill area after the landfill is regraded, to provide safety protection for future non-residential use. The soil cap with be placed consistent with the NJDEP Solid Waste regulations **(**N.J.A.C. 7:26-2A and TSCA requirements at 40 CFR §§ 761.61[a][7] & [8]). Additional soil will be added to the existing soil cover to provide a minimum of two feet of soil between the ground surface and landfilled debris. The use of a vegetated native soil cover or functional equivalent will offer safety protection to non-residents from future exposure to solid waste at the landfill and will control surface water runoff and erosion.

LUCs to maintain the soil cover and prevent residential land use will also be implemented at FTMM-02. The Army will prepare a LUC implementation plan during the remedy design phase to implement the institutional controls, document the location of the engineering control and identify the procedural responsibilities including landfill cover inspections, monitoring and reporting, and long-term management requirements, etc. In addition, as part of LUC implementation, and prior to designing and placing the vegetated soil cover, refinement of the landfill boundary will be performed to investigate the data gaps identified in Section 1.3.2. The landfill boundary refinement investigation is ongoing; field work was performed in September 2015 and will be documented in a separate report.

The Army will be responsible for documenting and implementing the LUCs, which is expected to occur through the filing of a deed notice, and will also be responsible to conduct reviews to ensure that the LUCs remain protective of human health and the environment. When the property is transferred to private ownership, the LUCs will be incorporated into the title and the new owner will be responsible for complying with the LUCs. Although the Army may later transfer its procedural responsibilities to another party by contract, property transfer agreement, or through other means, the Army shall retain ultimate responsibility for remedy integrity.

In addition, the existing CEA accepted by the NJDEP in January 2001 (and updated in 2011) will be revised accordingly including implementation of a biennial sampling frequency since an extensive groundwater sampling history has been established in FTMM-02. The CEA will remain in place until NJDEP GWQS are achieved at the Site.

The estimated total present value (TPV) of the soil cover and ICs is approximately $2,940,000. Costs associated with ICs is $407,000, and include preparation of a LUC Implementation Plan (including the CEA), refinement of landfill boundaries, long term monitoring of the groundwater as part of the CEA, and IC inspection and reporting for a 30-year duration. The cost associated with the removal action is $984,000 and includes a pre-design investigation, replacement of two monitoring wells, excavation and off-site disposal of approximately 665 cubic yards of PCB-impacted soil, and dewatering activities. The cost associated with the vegetative cover is $1,549,000 and includes the advancement of two geotechnical borings, placement of 18 inches of a soil cover, followed by six inches of a vegetative cover, grading for runoff, and seeding. The cost estimate is provided in **Appendix C.**

SECTION 9
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TABLE 1.1
CHRONOLOGY OF EVENTS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

1918 – Fort Monmouth (FTMM) was established.
1964-1969 – Based on historical research, the period of operation of the FTMM-02 landfill was approximately from 1964 to 1968 (possibly into 1969).
1980 – Installation Assessment of Fort Monmouth. Report 71. U.S. Army Toxic and Hazardous Materials Agency (USATHAMA, 1980). Conducted a records search to assess the environmental quality of FTMM.
1986 – A New Jersey Pollutant Discharge Elimination System (NJPDES) permit was issued and quarterly surface water monitoring began at FTMM-02.
1988 – Update of the Initial Installation Assessment of Fort Monmouth and Subinstallations: Charles Wood Area and Evans Area. A survey was conducted to determine if any environmental/hazardous waste disposal conditions had changed since the Installation Assessment was conducted in 1980 (USATHAMA, 1988).
1993 – An investigation of 45 suspected hazardous waste sites at FTMM was conducted. FTMM-02 was identified as a former landfill which accepted wastes such as oil in cans, oil burner filter, and soot (Weston, 1993).
1995 – A Site Investigation was conducted at FTMM in 1994 and 1995 that included tidal monitoring, installation of three groundwater monitoring wells, and implementation of a quarterly groundwater and surface water monitoring program (Weston, 1995).
1997-2000 – A Remedial Investigation (RI) that included soil and groundwater characterization of FTMM-02 landfill was performed from May 1997 through June 2000. Three soil and groundwater field investigations were performed including a polychlorinated biphenyls (PCBs) soil and groundwater grab investigation within the vadose zone in two areas of FTMM-02 (Versar, 2001), a benzene/chlorobenzene soil and groundwater grab investigation within the vadose zone following a grid pattern across FTMM-02 (Versar, 2001), and a near-surface soils characterization by analyzing soil samples (0-24 inches below grade surface [bgs]) collected on a grid pattern within the boundaries of FTMM-02. An additional seven wells were installed during the third and fourth quarters of 1998 and the final 14 wells were installed in April 2000 at the site.
2001 – A RI and Remedial Action Workplan (RAW) report was completed (Versar, 2001) and approved by the New Jersey Department of Environmental Protection (NJDEP) in October 2002. The report recommends that natural attenuation occurring at the FTMM-02 landfill be enhanced through implementation of an Enzyme-Enhanced Bioremediation (EEB) program. A groundwater Classification Exception Area (CEA) Report for benzene and chlorobenzene was submitted as part of this RI/RAW report (Versar, 2001).
2001 – The NJDEP approved the CEA in a letter dated of January 31, 2001.
2001-2005 – Four Oxygen Release Compounds (ORC) injections events were performed from March 2001 through July 2005 as part of the EEB program to remediate benzene and chlorobenzene identified in shallow groundwater as contaminant of potential concerns (COPC) (U.S. Army, 2012).

TABLE 1.1
CHRONOLOGY OF EVENTS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

2005 - FTMM (MP and Charles Wood Area [CWA]) was selected for closure by the Base Realignment and Closure Commission
2005 – Tert-butyl alcohol (TBA) was included as COPC for FTMM-02 landfill because there was no NJDEP Ground Water Quality Standard (GWQS) prior to November 2005 established for the compound.
2008 – FTMM-02 landfill cover requirements were investigated by reviewing aerial photographs, soil boring advanced during RI performed in 1998-1999, and advancing trenches and soil borings near the perimeter of the known landfill (Brinkerhoff, 2011 & U.S. Army, 2012). The report concluded that additional investigation was required to delineate the southern landfill boundary based on trench delineation work and an additional 12-inch clean soil cover will reduce or eliminate direct contact threat.
2008 – NJDEP approved the biennial CEA Certification report submitted on September 2007 in a letter dated of December 12, 2008. The due date of the next biennial CEA Certification Report was extended to January 31, 2011.
2009 – The NJDEP noted that an additional two feet of clean soil cover is required as a proper final cover for all the landfills at FTMM. This reflects the official position of the NJDEP Bureau of Site Remediation Program (SRP) in accordance with the NJDEP Bureau of Landfill and Hazardous Permitting as mentioned in an internal memorandum dated of March 30, 2009. The NJDEP SRP provided a letter including its official position and the internal memorandum on May 4, 2009.
2010 – Between June and October 2010 Shaw Environmental, Inc. (2012) conducted a Baseline Ecological Evaluation (BEE).
2011 – Biennial CEA Certification report was created by Brinkerhoff (June 2011) and was submitted with the most recent remedial action progress report (RAPR, U.S. Army [2012]).
2011 – The base was officially closed on September 15, 2011.
2012 – The NJDEP concurred with the conclusions of the BEE and indicated that "no additional ecological evaluation or assessment for the Main Post and Charles Wood Area" was required. The NJDEP provided a letter to that effect on August 27, 2012.
2013 – Groundwater sampling was conducted at FTMM-02 in August 2013 to re-establish baseline groundwater conditions following temporary suspension of groundwater sampling in late 2011 (Parsons, 2013).
2014 – NJDEP agreed to continue groundwater sampling at FTMM-02 for VOCs only (NJDEP, 2014) at monitoring wells M2MW03, M2MW10, M2MW11, M2MW21, M2MW22, and M2MW24 based on the recommendations contained in the Final August 2013 Baseline Groundwater Sampling Report.

TABLE 2.1
WELL CONSTRUCTION SUMMARY
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Site	Well Permit #	Y Coord. (Northing)	X Coord. (Easting)	Installation Date	Depth (ft bgs)	Casing Length (ft)	Screen Length (ft)	Top of Casing (ft amsl)	Slot Size (inches)
M2MW01	29-32584	537898.595	617049.856	12/14/1994	22.00	7.00	15.00	19.93	0.01
M2MW02	29-32585	537763.107	616268.137	12/13/1994	17.00	7.00	10.00	**12.67**	0.01
M2MW03	29-32586	538141.520	617064.120	12/13/1994	15.00	5.00	10.00	11.16	0.01
M2MW04	E201008215	537932.074	616545.588	12/17/1997	19.00	4.00	15.00	13.07	0.02
M2MW05	29-39185	537559.131	616129.656	8/24/1998	13.00	3.00	10.00	**9.61**	0.01
M2MW06	29-39184	537821.577	616300.991	8/24/1998	15.00	5.00	10.00	**11.84**	0.01
M2MW07	29-39183	537834.055	616291.020	8/24/1998	15.00	5.00	10.00	**11.37**	0.01
M2MW08	29-39182	537955.563	616583.487	8/24/1998	15.00	5.00	10.00	**10.62**	0.01
M2MW09	29-39181	538091.590	616838.679	8/24/1998	15.00	5.00	10.00	**13.00**	0.01
M2MW10	29-39180	538218.275	617129.435	8/31/1998	20.00	5.00	15.00	**10.99**	0.01
M2MW11	29-42769	538087.706	616845.626	5/4/2000	49.00	29.00	20.00	**12.74**	0.01
M2MW12	29-42770	538147.879	617071.684	5/5/2000	50.00	30.00	20.00	**13.28**	0.01
M2MW13	29-42771	538121.151	617127.234	5/8/2000	20.00	5.00	15.00	**14.99**	0.01
M2MW14	29-42562	538008.076	617054.551	4/9/2000	20.00	5.00	15.00	**18.10**	0.01
M2MW15	29-42773	537891.439	616841.758	5/8/2000	20.00	5.00	15.00	**18.61**	0.01
M2MW16	29-42774	537753.868	616581.947	5/8/2000	20.00	5.00	15.00	**17.08**	0.01
M2MW17	29-42775	537654.083	616396.953	5/3/2000	20.00	5.00	15.00	**19.03**	0.01
M2MW18	29-42776	537753.868	616581.974	5/8/2000	20.00	5.00	15.00	**10.58**	0.01
M2MW19	29-42777	537799.455	616596.355	5/3/2000	50.00	30.00	20.00	**15.57**	0.01
M2MW20	29-42778	537736.556	616336.745	5/2/2000	50.00	30.00	20.00	**15.75**	0.01
M2MW21	29-42779	537814.209	616510.973	5/3/2000	20.00	5.00	15.00	**15.50**	0.01
M2MW22	29-42780	537777.226	616178.461	5/3/2000	20.00	5.00	15.00	**11.62**	0.01
M2MW23	29-42781	538060.520	616894.502	5/2/2000	20.00	5.00	15.00	**14.77**	0.01
M2MW24	29-42772	537805.303	616599.277	5/4/2000	20.00	5.00	15.00	**15.69**	0.01

Notes:
ft = feet
bgs = below ground surface
amsl = above mean sea level
Bolded top of casing elevations represent a mathematical adjustment between earlier NAD systems and the NAD 88 spatial system; the adjusted monitoring wells will be resurveyed. The wells were reduced 1.09 feet to reflect the changes in the NAD systems.

TABLE 2.2
GROUNDWATER SAMPLING SUMMARY
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

	Well ID																						
Date	**M2MW01**	**M2MW02**	**M2MW03**	**M2MW04**	**M2MW05**	**M2MW06**	**M2MW07**	**M2MW08**	**M2MW09**	**M2MW10**	**M2MW11**	**M2MW12**	**M2MW13**	**M2MW14**	**M2MW15**	**M2MW16**	**M2MW17**	**M2MW18**	**M2MW19**	**M2MW20**	**M2MW21**	**M2MW22**	**M2MW23**	**M2MW24**
May-97	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Aug-97	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oct-97	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb-98	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Apr-98	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jul-98	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oct-98	--	--	--	--	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nov-98	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Feb-99	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jun-99	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jul-99	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Oct-99	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jan-00	--	--	--	--	--	M	--	--	M	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar-00	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--
May-00	--	--	--	--	--	--	--	--	--	--	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Jun-00	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Sep-00	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Dec-00	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Mar-01	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Jun-01	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Sep-01	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Nov-01	--	--	--	--	--	--	--	--	--	--	V,S,P,M	--	--	--	--	--	--	--	V,S,P,M	V,S,P,M	--	--	--	--
Dec-01	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Mar-02	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Jun-02	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Sep-02	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Dec-02	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Mar-03	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Jun-03	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Sep-03	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Nov-03	V,S,P,M	--	--	--	--	V,S,P,M	--	--	V,S,P,M	V,S,P,M	--	--	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	V,S,P,M	--
Dec-03	--	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	V,S,P,M	V,S,P,M	--	--	V,S,P,M	V,S,P,M	--	--	--	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	V,S,P,M
Feb-04	--	--	--	--	--	V,S,P,M	--	--	V,S,P,M	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mar-04	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	V,S,P,M	V,S,P,M	--	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Jun-04	--	V	V	V	V,P	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Aug-04	--	V	V	V	V,P	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Dec-04	--	V	V	V	V,P	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Feb-05	--	V	V	V	V,P	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
May-05	--	V	V	V	V,P	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Sep-05	--	V	V	V	V,P	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Dec-05	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Feb-06	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
May-06	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Sep-06	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Nov-06	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Feb-07	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
May-07	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Aug-07	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Dec-07	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Mar-08	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
May-08	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Aug-08	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Dec-08	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Mar-09	--	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M	--	--	--	--	--	--	--	V,S,P,M	V,S,P,M	V,S,P,M	V,S,P,M
Jun-09	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Sep-09	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Dec-09	--	V	V	V	V	V	V	V	V	V	V	V	V	--	--	--	--	--	--	--	V	V	V	V
Mar-10	--	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	--	--	--	--	--	--	--	V,M	V,M	V,M	V,M
Jun-10	--	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	--	--	--	--	--	--	--	V,M	V,M	V,M	V,M
Sep-10	--	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	--	--	--	--	--	--	--	V,M	V,M	V,M	V,M
Dec-10	V	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	--	--	--	--	--	--	--	V,M	V,M	V,M	V,M
Mar-11	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	--	V,M	V,M	V,M	--	--	--	V,M	V,M	V,M	V,M
Jun-11	--	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	--	--	--	--	--	--	--	V,M	V,M	V,M	V,M
Aug-11	--	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	V,M	--	--	--	--	--	--	--	V,M	V,M	V,M	V,M
Aug-13	--	V, P	V, P	V, P	V, P	V, P	V, P	V, P	V, P	V, P	V, P	V, P	V, P	--	--	--	--	--	--	--	V, P	V, P	V, P	V,P
Dec-14	--	--	V	--	--	--	--	--	--	V	V	--	--	--	--	--	--	--	--	--	V	V	--	V

Notes:
V = volatile organic compounds (VOCs) + tentatively-identified compounds (TICs)
S = semivolatile organic compounds + TICs
M = metals
P = pesticides and polychlorinated biphenyls (PCBs), dash (--) = not sampled.
NJDEP agreed to continue long-term monitoring for volatiles only at FTMM-02 based on recommendations in the Final Baseline Groundwater Sampling Report (NJDEP, 2014).

TABLE 2.3
SURFACE WATER SAMPLING SUMMARY
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

	Location				
Date	**SS-13**	**SS-15**	**SS-16**	**SS-23**	**SS-24**
Oct-96	V	V	V	--	--
Nov-96	V	V	V	--	--
Dec-96	V	V	V	--	--
Jan-97	V	V	V	--	--
Feb-97	V	V	V	--	--
Mar-97	V	V	V	--	--
Apr-97	V	V	V	--	--
Jul-97	V	V	V	--	--
Oct-97	V	V	V	--	--
Feb-98	V	V	V	--	--
Apr-98	V	V	V	--	--
Aug-98	V	V	V	--	--
Nov-98	V	V	V	--	--
Feb-99	V	V	V	--	--
Jun-99	V	V	V	--	--
Sep-99	V	V	V	--	--
Dec-99	V	V	V	--	--
Mar-00	V	V	V	--	--
Jun-00	V	V,P	V	V	V
Aug-00	V	V,P	V,P	V	V
Nov-00	V	V,P	V,P	V	V
Mar-01	V	V,P	V,P	V	V
May-01	V	V,P	V,P	V	V
Sep-01	V	V,P	V,P	V	V
Nov-01	V	V,P	V,P	V	V
Feb-02	V	V,P	V,P	V	V
Jun-02	V	V,P	V,P	V	V
Sep-02	V	V,P	V,P	V	V
Nov-02	V	V,P	V,P	V	V
Mar-03	V	V,P	V,P	V	V
May-03	V	V,P	V,P	V	V
Sep-03	V	V,P	V,P	V	V
Nov-03	V	V,P	V,P	V	V
Mar-04	V	V,P	V,P	V	V
Jun-04	V	V,P	V,P	V	V
Aug-04	V	V,P	V,P	V	V
Nov-04	V	V,P,M	--	--	V
Mar-05	V	V,P,M	--	--	V
Jun-05	V	V,P,M	--	--	V
Sep-05	V	V,P,M	--	--	V
Nov-05	V	V,P,M	--	--	V
Feb-06	V	V,P,M	--	--	V
May-06	V	V,P,M	--	--	V
Sep-06	V	V,P,M	--	--	V
Dec-06	V	V,P,M	--	--	V
Mar-07	V	V,P,M	--	--	V
Jun-07	V	V,P,M	--	--	V
Sep-07	V	V,P,M	--	--	V
Dec-07	V	V,P,M	--	--	V
Mar-08	V	V,P,M	--	--	V
Jun-08	V	V,P,M	--	--	V
Sep-08	V	V,P,M	--	--	V
Dec-08	V	V,P,M	--	--	V
Mar-09	V	V,M	--	--	V
Jun-09	V	V,M	--	--	V
Sep-09	V	V,M	--	--	V
Dec-09	V	V,M	--	--	V
Mar-10	V	V,M	--	--	V
Jun-10	V	V,M	--	--	V
Sep-10	V	V,M	--	--	V

Notes:
V = volatile organic compounds + tentatively-identified compounds (TICs),
M = metals, P = pesticides/PCBs, dash (--) = not sampled.

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-100			FTMM02-B-101	
Sample ID					FTMM02-SS-B-100-0-1.0	FTMM02-SS-B-100-2-2	FTMM02-SS-B-100-0-1.0_19990601	FTMM02-SS-B-101-0-1.0	FTMM02-SS-B-101-2-2
Sample Date					4/26/1999	4/26/1999	6/1/1999	4/26/1999	4/26/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 620	NA	NA	**2,200**
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 310	NA	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 620	NA	NA	< 580
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 620	NA	NA	< 580
Toluene	6,300,000	91,000,000	7,000	-	NA	< 310	NA	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,500**	NA	NA	**9,800**
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1200	< 1200	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1200	< 1200	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	**1,500**	< 1200	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	**780 J**	< 1200	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1200	< 1200	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	**9,500**	< 1200	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	**10,000 D**	< 1200	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	**13,000 D**	< 1200	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	**2,700**	< 1200	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	**11,000 D**	< 1200	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 1200	**120 JB**	NA
Chrysene	62,000	230,000	80,000	-	**170 J**	NA	**14,000 D**	**170 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	**2,000**	< 1200	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1200	< 1200	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1200	< 1200	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**170 JB**	NA	**260 JB**	< 1200	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**120 J**	NA	**5,400**	**160 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1200	< 1200	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	**3,300**	< 1200	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1200	< 1200	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**220 J**	< 1200	NA
Pyrene	1,700,000	18,000,000	840,000	-	**130 J**	NA	**12,000 D**	**160 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**16,180**	NA	**39,930**	**22,140**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-100			FTMM02-B-101	
Sample ID					FTMM02-SS-B-100-0-1.0	FTMM02-SS-B-100-2-2	FTMM02-SS-B-100-0-1.0_19990601	FTMM02-SS-B-101-0-1.0	FTMM02-SS-B-101-2-2
Sample Date					4/26/1999	4/26/1999	6/1/1999	4/26/1999	4/26/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	**0.186**	< 0.0137	NA
4,4'-DDE	2	9	18	-	NA	NA	**0.119**	**0.03**	NA
4,4'-DDT	2	8	11	-	NA	NA	**0.073**	< 0.0251	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	< 0.0113	< 0.0114	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	< 0.0113	< 0.0114	NA
Endrin	23	340	1	-	NA	NA	< 0.0113	< 0.0114	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	< 0.0091	< 0.0091	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	< 0.0113	< 0.0114	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	< 0.3628	< 0.3657	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	< 0.1451	< 0.1463	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	< 0.0907	< 0.0914	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	< 0.0816	< 0.0823	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**7,660**	NA	NA	**10,800**	NA
Antimony	31	450	6	ND	**0.665**	NA	NA	**1.06**	NA
Arsenic	19	19	19	22.9	**7.18**	NA	NA	**7.9**	NA
Barium	16,000	59,000	2,100	32.3	**27.9**	NA	NA	**50.1**	NA
Beryllium	16	140	0.7	2	**0.959**	NA	NA	**0.757**	NA
Cadmium	78	78	2	ND	< 0.112	NA	NA	**0.177**	NA
Calcium	NLE	NLE	NLE	921	**576**	NA	NA	**8,560**	NA
Chromium	NLE	NLE	NLE	269	**108**	NA	NA	**70.9**	NA
Cobalt	1,600	590	90	2.5	**0.742**	NA	NA	**2.45**	NA
Copper	3,100	45,000	11,000	8	**6.09**	NA	NA	**26**	NA
Iron	NLE	NLE	NLE	55,800	**27,700**	NA	NA	**24,400**	NA
Lead	400	800	90	19.5	**9.58**	NA	NA	**57.6**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,170**	NA	NA	**4,290**	NA
Manganese	11,000	5,900	65	90.7	**14.7**	NA	NA	**267**	NA
Mercury	23	65	0.1	ND	**0.041**	NA	NA	**0.228**	NA
Nickel	1,600	23,000	48	8.4	**3.41**	NA	NA	**9.28**	NA
Potassium	NLE	NLE	NLE	15,400	**7,170**	NA	NA	**5,130**	NA
Selenium	390	5,700	11	1.9	**1.16**	NA	NA	**1.05**	NA
Silver	390	5,700	1	1.1	< 0.672	NA	NA	< 0.718	NA
Sodium	NLE	NLE	NLE	51.6	**104**	NA	NA	**227**	NA
Thallium	5	79	3	ND	< 0.672	NA	NA	< 0.718	NA
Vanadium	78	1,100	NLE	94.1	**41**	NA	NA	**43.4**	NA
Zinc	23,000	110,000	930	81.4	**51.4**	NA	NA	**130**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-102		FTMM02-B-103		
Sample ID					FTMM02-SS-B-102-0-1.0	FTMM02-SS-B-102-2-2	FTMM02-SS-B-103-0-1.0	FTMM02-SS-B-103-0-1.0-Dup	FTMM02-SS-B-103-2-2
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 730	NA	NA	< 590
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 370	NA	NA	< 300
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 730	NA	NA	< 590
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 730	NA	NA	< 590
Toluene	6,300,000	91,000,000	7,000	-	NA	< 370	NA	NA	< 300
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1200	NA	< 1200	< 1200	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1200	NA	< 1200	< 1200	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1200	NA	< 1200	< 1200	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1200	NA	< 1200	< 1200	NA
Azobenzene	NLE	NLE	NLE	-	< 1200	NA	< 1200	< 1200	NA
Benzo(a)anthracene	600	2,000	800	-	< 1200	NA	< 1200	**130 J**	NA
Benzo(a)pyrene	200	200	200	-	< 1200	NA	< 1200	< 1200	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1200	NA	< 1200	< 1200	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1200	NA	< 1200	< 1200	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1200	NA	< 1200	< 1200	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1200	NA	**140 J**	< 1200	NA
Chrysene	62,000	230,000	80,000	-	< 1200	NA	< 1200	**200 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1200	NA	< 1200	< 1200	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1200	NA	< 1200	< 1200	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1200	NA	< 1200	< 1200	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	< 1200	NA	**310 J**	**260 J**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1200	NA	< 1200	**250 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1200	NA	< 1200	< 1200	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1200	NA	< 1200	< 1200	NA
Naphthalene	6,000	17,000	25,000	-	< 1200	NA	< 1200	< 1200	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1200	NA	< 1200	**310 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1200	NA	< 1200	**280 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**5,490**	NA	**6,040**	**2,820**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-102		FTMM02-B-103		
Sample ID					FTMM02-SS-B-102-0-1.0	FTMM02-SS-B-102-2-2	FTMM02-SS-B-103-0-1.0	FTMM02-SS-B-103-0-1.0-Dup	FTMM02-SS-B-103-2-2
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.482**	NA	< 0.0137	**0.018**	NA
4,4'-DDE	2	9	18	-	**0.028**	NA	**0.014**	**0.022**	NA
4,4'-DDT	2	8	11	-	< 0.0251	NA	**0.031**	**0.053**	NA
Alpha-Chlordane	NLE	1	NLE	-	**0.017**	NA	< 0.0114	< 0.0114	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0114	NA	< 0.0114	< 0.0114	NA
Endrin	23	340	1	-	< 0.0114	NA	< 0.0114	< 0.0114	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0091	NA	< 0.0092	< 0.0091	NA
Gamma-Chlordane	0.2	1	NLE	-	**0.025**	NA	< 0.0114	< 0.0114	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3658	NA	< 0.3661	< 0.3647	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1463	NA	< 0.1465	< 0.1459	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0914	NA	< 0.0915	< 0.0912	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0823	NA	< 0.0824	< 0.0821	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**14,100**	NA	**14,200**	**18,600**	NA
Antimony	31	450	6	ND	**0.495**	NA	**0.665**	**1.02**	NA
Arsenic	19	19	19	22.9	**9.09**	NA	**13.6**	**14.4**	NA
Barium	16,000	59,000	2,100	32.3	**86.4**	NA	**46.6**	**51.1**	NA
Beryllium	16	140	0.7	2	**1.21**	NA	**1.65**	**1.62**	NA
Cadmium	78	78	2	ND	**0.687**	NA	< 0.122	< 0.127	NA
Calcium	NLE	NLE	NLE	921	**3,540**	NA	**1,750**	**1,800**	NA
Chromium	NLE	NLE	NLE	269	**110**	NA	**166**	**157**	NA
Cobalt	1,600	590	90	2.5	**3.15**	NA	**1.85**	**2.07**	NA
Copper	3,100	45,000	11,000	8	**20.8**	NA	**15.8**	**13.8**	NA
Iron	NLE	NLE	NLE	55,800	**24,100**	NA	**47,000**	**47,700**	NA
Lead	400	800	90	19.5	**77.2**	NA	**21.9**	**22**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,090**	NA	**5,810**	**4,870**	NA
Manganese	11,000	5,900	65	90.7	**95.9**	NA	**68.2**	**78.5**	NA
Mercury	23	65	0.1	ND	**0.119**	NA	**0.052**	**0.048**	NA
Nickel	1,600	23,000	48	8.4	**11.2**	NA	**9.29**	**10.4**	NA
Potassium	NLE	NLE	NLE	15,400	**6,480**	NA	**12,600**	**10,500**	NA
Selenium	390	5,700	11	1.9	**1.35**	NA	**0.936**	**1.08**	NA
Silver	390	5,700	1	1.1	< 0.635	NA	< 0.73	< 0.762	NA
Sodium	NLE	NLE	NLE	51.6	**432**	NA	**124**	**176**	NA
Thallium	5	79	3	ND	< 0.635	NA	< 0.73	< 0.762	NA
Vanadium	78	1,100	NLE	94.1	**54.6**	NA	**77.6**	**91.8**	NA
Zinc	23,000	110,000	930	81.4	**101**	NA	**95.9**	**86.5**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-103	FTMM02-B-104		FTMM02-B-105	
Sample ID					FTMM02-SS-B-103-2-2-Dup	FTMM02-SS-B-104-0-1.0	FTMM02-SS-B-104-2-2	FTMM02-SS-B-105-0-1.0	FTMM02-SS-B-105-2-2
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 580	NA	< 570	NA	< 590
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 290	NA	< 280	NA	< 300
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 580	NA	< 570	NA	< 590
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 580	NA	< 570	NA	< 590
Toluene	6,300,000	91,000,000	7,000	-	< 290	NA	< 280	NA	< 300
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1200	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1200	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1200	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1200	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	NA	< 1200	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1200	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1200	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1200	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1200	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**230 J**	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	NA	**140 J**	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1200	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1200	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**300 J**	NA	**240 J**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	< 1200	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1200	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1200	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1200	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1200	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	**130 J**	NA	< 1100	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**8,760**	NA	**5,860**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-103	FTMM02-B-104		FTMM02-B-105	
Sample ID					FTMM02-SS-B-103-2-2-Dup	FTMM02-SS-B-104-0-1.0	FTMM02-SS-B-104-2-2	FTMM02-SS-B-105-0-1.0	FTMM02-SS-B-105-2-2
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	**0.021**	NA	**0.299**	NA
4,4'-DDE	2	9	18	-	NA	**0.027**	NA	**0.295**	NA
4,4'-DDT	2	8	11	-	NA	< 0.0258	NA	**0.036**	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0117	NA	< 0.0113	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0117	NA	< 0.0113	NA
Endrin	23	340	1	-	NA	< 0.0117	NA	< 0.0113	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0094	NA	< 0.009	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0117	NA	< 0.0113	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3758	NA	< 0.361	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1503	NA	< 0.1444	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.094	NA	< 0.0902	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0846	NA	< 0.0812	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**14,800**	NA	**15,200**	NA
Antimony	31	450	6	ND	NA	**1.16**	NA	**0.692**	NA
Arsenic	19	19	19	22.9	NA	**13**	NA	**10.5**	NA
Barium	16,000	59,000	2,100	32.3	NA	**39**	NA	**35**	NA
Beryllium	16	140	0.7	2	NA	**1.43**	NA	**1.15**	NA
Cadmium	78	78	2	ND	NA	< 0.104	NA	< 0.106	NA
Calcium	NLE	NLE	NLE	921	NA	**1,790**	NA	**1,180**	NA
Chromium	NLE	NLE	NLE	269	NA	**91.6**	NA	**96.2**	NA
Cobalt	1,600	590	90	2.5	NA	**2.49**	NA	**2.56**	NA
Copper	3,100	45,000	11,000	8	NA	**16.3**	NA	**9.13**	NA
Iron	NLE	NLE	NLE	55,800	NA	**40,700**	NA	**35,100**	NA
Lead	400	800	90	19.5	NA	**69.9**	NA	**49.7**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**2,640**	NA	**3,480**	NA
Manganese	11,000	5,900	65	90.7	NA	**84.6**	NA	**37.4**	NA
Mercury	23	65	0.1	ND	NA	**8.091**	NA	**5.465**	NA
Nickel	1,600	23,000	48	8.4	NA	**9.15**	NA	**8.63**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**4,900**	NA	**8,100**	NA
Selenium	390	5,700	11	1.9	NA	**0.763**	NA	< 0.636	NA
Silver	390	5,700	1	1.1	NA	< 0.622	NA	**5.08**	NA
Sodium	NLE	NLE	NLE	51.6	NA	**142**	NA	**142**	NA
Thallium	5	79	3	ND	NA	< 0.622	NA	< 0.636	NA
Vanadium	78	1,100	NLE	94.1	NA	**74.8**	NA	**61.6**	NA
Zinc	23,000	110,000	930	81.4	NA	**99.6**	NA	**117**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-106		FTMM02-B-107		FTMM02-B-108
Sample ID					FTMM02-SS-B-106-0-1.0	FTMM02-SS-B-106-2-2	FTMM02-SS-B-107-0-1.0	FTMM02-SS-B-107-2-2	FTMM02-SS-B-108-0-1.0
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	5/4/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 780	NA	< 700	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 390	NA	< 350	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 780	NA	< 700	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 780	NA	< 700	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 390	NA	< 350	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1100	NA	< 1200
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA	< 1200
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA	< 1200
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA	< 1200
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**120 J**	NA	< 1100	NA	< 1200
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 1100	NA	**220 J**
Chrysene	62,000	230,000	80,000	-	**170 J**	NA	< 1100	NA	< 1200
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**180 J**	NA	**370 J**	NA	**400 J**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	< 1100	NA	< 1200
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA	< 1200
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA	< 1200
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	< 1100	NA	< 1200
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**13,620**	NA	**4,380**	NA	**5,500**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-106		FTMM02-B-107		FTMM02-B-108
Sample ID					FTMM02-SS-B-106-0-1.0	FTMM02-SS-B-106-2-2	FTMM02-SS-B-107-0-1.0	FTMM02-SS-B-107-2-2	FTMM02-SS-B-108-0-1.0
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	5/4/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.941**	NA	< 0.014	NA	< 0.0139
4,4'-DDE	2	9	18	-	**0.257**	NA	< 0.0093	NA	< 0.0093
4,4'-DDT	2	8	11	-	**0.293**	NA	< 0.0256	NA	< 0.0255
Alpha-Chlordane	NLE	1	NLE	-	**0.048**	NA	< 0.0116	NA	< 0.0116
Dieldrin	0.04	0.2	0.003	-	< 0.0115	NA	< 0.0116	NA	< 0.0116
Endrin	23	340	1	-	< 0.0115	NA	< 0.0116	NA	< 0.0116
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0092	NA	< 0.0093	NA	< 0.0093
Gamma-Chlordane	0.2	1	NLE	-	**0.046**	NA	< 0.0116	NA	< 0.0116
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3683	NA	< 0.3721	NA	< 0.3712
Aroclor-1248	0.2	1	NLE	-	< 0.1473	NA	< 0.1488	NA	< 0.1485
Aroclor-1254	0.2	1	NLE	-	< 0.0921	NA	< 0.093	NA	< 0.0928
Aroclor-1260	0.2	1	NLE	-	< 0.0829	NA	< 0.0837	NA	< 0.0835
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**13,100**	NA	**8,810**	NA	**13,500**
Antimony	31	450	6	ND	**0.781**	NA	**0.903**	NA	**0.939**
Arsenic	19	19	19	22.9	**11.9**	NA	**7.07**	NA	**11.9**
Barium	16,000	59,000	2,100	32.3	**18.3**	NA	**34.7**	NA	**41.9**
Beryllium	16	140	0.7	2	**1.28**	NA	**0.708**	NA	**1.34**
Cadmium	78	78	2	ND	< 0.129	NA	< 0.114	NA	< 0.123
Calcium	NLE	NLE	NLE	921	**695**	NA	**4,140**	NA	**356**
Chromium	NLE	NLE	NLE	269	**147**	NA	**59.7**	NA	**124**
Cobalt	1,600	590	90	2.5	**0.955**	NA	**2.97**	NA	**1.36**
Copper	3,100	45,000	11,000	8	**9.69**	NA	**35.9**	NA	**6.28**
Iron	NLE	NLE	NLE	55,800	**36,700**	NA	**23,400**	NA	**38,700**
Lead	400	800	90	19.5	**22.7**	NA	**52.5**	NA	**10.5**
Magnesium	NLE	NLE	NLE	7,230	**3,950**	NA	**3,060**	NA	**3,650**
Manganese	11,000	5,900	65	90.7	**21.8**	NA	**83.9**	NA	**32.5**
Mercury	23	65	0.1	ND	**0.315**	NA	**0.071**	NA	**0.046**
Nickel	1,600	23,000	48	8.4	**5.9**	NA	**12.2**	NA	**6.48**
Potassium	NLE	NLE	NLE	15,400	**8,980**	NA	**4,270**	NA	**10,200**
Selenium	390	5,700	11	1.9	**1.05**	NA	**0.704**	NA	**1.03**
Silver	390	5,700	1	1.1	< 0.775	NA	< 0.684	NA	< 0.74
Sodium	NLE	NLE	NLE	51.6	**125**	NA	**146**	NA	**112**
Thallium	5	79	3	ND	< 0.775	NA	< 0.684	NA	< 0.74
Vanadium	78	1,100	NLE	94.1	**57.8**	NA	**45.7**	NA	**53.2**
Zinc	23,000	110,000	930	81.4	**58.6**	NA	**105**	NA	**56**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-108	FTMM02-B-109		FTMM02-B-110	
Sample ID					FTMM02-SS-B-108-2-2	FTMM02-SS-B-109-0-1.0	FTMM02-SS-B-109-2-2	FTMM02-SS-B-110-0-1.0	FTMM02-SS-B-110-2-2
Sample Date					5/4/1999	5/4/1999	5/4/1999	5/4/1999	5/4/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 570	NA	< 620	NA	< 660
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 290	NA	< 310	NA	< 330
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 570	NA	< 620	NA	< 660
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 570	NA	< 620	NA	< 660
Toluene	6,300,000	91,000,000	7,000	-	< 290	NA	< 310	NA	< 330
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	**3,600**	NA	**4,100**	NA	**8,000**
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1200	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1200	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1200	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	< 1200	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	< 1200	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	< 1200	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	< 1200	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	< 1200	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	< 1200	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**130 J**	NA	**180 J**	NA
Chrysene	62,000	230,000	80,000	-	NA	**150 J**	NA	< 1200	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1200	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1200	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**610 J**	NA	**300 J**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**140 J**	NA	< 1200	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1200	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	< 1200	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1200	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1200	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	**160 J**	NA	< 1200	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**5,160**	NA	**15,311**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-108	FTMM02-B-109		FTMM02-B-110	
Sample ID					FTMM02-SS-B-108-2-2	FTMM02-SS-B-109-0-1.0	FTMM02-SS-B-109-2-2	FTMM02-SS-B-110-0-1.0	FTMM02-SS-B-110-2-2
Sample Date					5/4/1999	5/4/1999	5/4/1999	5/4/1999	5/4/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	< 0.0138	NA	< 0.0136	NA
4,4'-DDE	2	9	18	-	NA	**0.011**	NA	< 0.0091	NA
4,4'-DDT	2	8	11	-	NA	< 0.0253	NA	< 0.0249	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0115	NA	< 0.0113	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0115	NA	< 0.0113	NA
Endrin	23	340	1	-	NA	< 0.0115	NA	< 0.0113	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0092	NA	< 0.0091	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0115	NA	< 0.0113	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3676	NA	< 0.3625	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1471	NA	< 0.145	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0919	NA	< 0.0906	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0827	NA	< 0.0816	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**17,600**	NA	**5,290**	NA
Antimony	31	450	6	ND	NA	**0.952**	NA	**0.954**	NA
Arsenic	19	19	19	22.9	NA	**12.4**	NA	**4.43**	NA
Barium	16,000	59,000	2,100	32.3	NA	**31.8**	NA	**16.4**	NA
Beryllium	16	140	0.7	2	NA	**1.42**	NA	**0.377**	NA
Cadmium	78	78	2	ND	NA	< 0.124	NA	**8.11**	NA
Calcium	NLE	NLE	NLE	921	NA	**1,200**	NA	**5,850**	NA
Chromium	NLE	NLE	NLE	269	NA	**148**	NA	**41.8**	NA
Cobalt	1,600	590	90	2.5	NA	**1.72**	NA	**1.62**	NA
Copper	3,100	45,000	11,000	8	NA	**8.48**	NA	**14.5**	NA
Iron	NLE	NLE	NLE	55,800	NA	**40,400**	NA	**13,500**	NA
Lead	400	800	90	19.5	NA	**17**	NA	**40.5**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**4,590**	NA	**1,400**	NA
Manganese	11,000	5,900	65	90.7	NA	**53.6**	NA	**60**	NA
Mercury	23	65	0.1	ND	NA	**0.04**	NA	**0.045**	NA
Nickel	1,600	23,000	48	8.4	NA	**7.49**	NA	**5.26**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**11,800**	NA	**2,420**	NA
Selenium	390	5,700	11	1.9	NA	**1.04**	NA	< 0.663	NA
Silver	390	5,700	1	1.1	NA	< 0.742	NA	< 0.663	NA
Sodium	NLE	NLE	NLE	51.6	NA	**104**	NA	**105**	NA
Thallium	5	79	3	ND	NA	< 0.742	NA	< 0.663	NA
Vanadium	78	1,100	NLE	94.1	NA	**67.5**	NA	**24.7**	NA
Zinc	23,000	110,000	930	81.4	NA	**89.8**	NA	**47.7**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-111		FTMM02-B-112		FTMM02-B-113
Sample ID					FTMM02-SS-B-111-0-1.0	FTMM02-SS-B-111-2-2	FTMM02-SS-B-112-0-1.0	FTMM02-SS-B-112-2-2	FTMM02-SS-B-113-0-1.0
Sample Date					5/4/1999	5/4/1999	5/4/1999	5/4/1999	5/6/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 550	NA	< 580	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	NA	< 290	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 550	NA	< 580	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 550	NA	< 580	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	NA	< 290	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1200	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1200	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1200	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1200	NA	< 1200
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1200	NA	< 1200
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1200	NA	< 1200
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1200	NA	< 1200
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1200	NA	< 1200
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**170 J**	NA	**130 J**	NA	**120 J**
Chrysene	62,000	230,000	80,000	-	**120 J**	NA	**200 J**	NA	**220 J**
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1200	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1200	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**650 J**	NA	< 1200	NA	**350 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	< 1200	NA	**180 J**
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1200	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1200	NA	< 1200
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1200	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA	< 1200
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	**130 J**	NA	**190 J**
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**3,800**	NA	**10,950**	NA	**11,920**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-111		FTMM02-B-112		FTMM02-B-113
Sample ID					FTMM02-SS-B-111-0-1.0	FTMM02-SS-B-111-2-2	FTMM02-SS-B-112-0-1.0	FTMM02-SS-B-112-2-2	FTMM02-SS-B-113-0-1.0
Sample Date					5/4/1999	5/4/1999	5/4/1999	5/4/1999	5/6/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.029**	NA	**0.156**	NA	**0.02**
4,4'-DDE	2	9	18	-	**0.02**	NA	**0.173**	NA	**0.079**
4,4'-DDT	2	8	11	-	< 0.0247	NA	**0.121**	NA	**0.121**
Alpha-Chlordane	NLE	1	NLE	-	< 0.0112	NA	< 0.0113	NA	**0.014**
Dieldrin	0.04	0.2	0.003	-	< 0.0112	NA	< 0.0113	NA	< 0.0114
Endrin	23	340	1	-	< 0.0112	NA	< 0.0113	NA	< 0.0114
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.009	NA	< 0.0091	NA	< 0.0091
Gamma-Chlordane	0.2	1	NLE	-	< 0.0112	NA	< 0.0113	NA	**0.014**
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3596	NA	< 0.3624	NA	< 0.3651
Aroclor-1248	0.2	1	NLE	-	< 0.1438	NA	< 0.145	NA	< 0.146
Aroclor-1254	0.2	1	NLE	-	< 0.0899	NA	< 0.0906	NA	< 0.0913
Aroclor-1260	0.2	1	NLE	-	< 0.0809	NA	< 0.0815	NA	< 0.0821
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**11,700**	NA	**8,390**	NA	**8,310**
Antimony	31	450	6	ND	**0.765**	NA	**2.1**	NA	**1.11**
Arsenic	19	19	19	22.9	**7.79**	NA	**23.7**	NA	**8.96**
Barium	16,000	59,000	2,100	32.3	**21**	NA	**200**	NA	**28.4**
Beryllium	16	140	0.7	2	**0.892**	NA	**0.99**	NA	**0.702**
Cadmium	78	78	2	ND	< 0.112	NA	**0.569**	NA	< 0.121
Calcium	NLE	NLE	NLE	921	**1,420**	NA	**2,730**	NA	**1,350**
Chromium	NLE	NLE	NLE	269	**79.8**	NA	**80.6**	NA	**64.9**
Cobalt	1,600	590	90	2.5	**1.89**	NA	**2.56**	NA	**1.72**
Copper	3,100	45,000	11,000	8	**7.48**	NA	**79.9**	NA	**19.5**
Iron	NLE	NLE	NLE	55,800	**26,800**	NA	**24,900**	NA	**18,800**
Lead	400	800	90	19.5	**16.4**	NA	**107**	NA	**48.1**
Magnesium	NLE	NLE	NLE	7,230	**2,290**	NA	**2,180**	NA	**1,680**
Manganese	11,000	5,900	65	90.7	**48.7**	NA	**551**	NA	**49.9**
Mercury	23	65	0.1	ND	**0.031**	NA	**0.267**	NA	**0.153**
Nickel	1,600	23,000	48	8.4	**9.73**	NA	**8.21**	NA	**6.4**
Potassium	NLE	NLE	NLE	15,400	**5,630**	NA	**5,900**	NA	**4,080**
Selenium	390	5,700	11	1.9	< 0.674	NA	**1.66**	NA	**1.07**
Silver	390	5,700	1	1.1	< 0.674	NA	< 0.621	NA	< 0.729
Sodium	NLE	NLE	NLE	51.6	**97.1**	NA	**147**	NA	**89.1**
Thallium	5	79	3	ND	< 0.674	NA	< 0.621	NA	< 0.729
Vanadium	78	1,100	NLE	94.1	**77.5**	NA	**31.4**	NA	**33.4**
Zinc	23,000	110,000	930	81.4	**47.6**	NA	**606**	NA	**95.5**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-113	FTMM02-B-114		FTMM02-B-115	
Sample ID					FTMM02-SS-B-113-2-2	FTMM02-SS-B-114-0-1.0	FTMM02-SS-B-114-2-2	FTMM02-SS-B-115-0-1.0	FTMM02-SS-B-115-0-1.0-Dup
Sample Date					5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	**4,100**	NA	**4,400**	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 300	NA	< 300	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 600	NA	< 610	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 600	NA	< 610	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	< 300	NA	< 300	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	**2,800**	NA	**2,600**	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1100	< 1000
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1100	< 1000
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1100	< 1000
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	< 1100	< 1000
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	< 1000
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	< 1100	< 1000
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	< 1100	< 1000
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	< 1100	< 1000
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	< 1100	< 1000
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	< 1100	< 1000
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	< 1100	NA	**190 J**	**270 J**
Chrysene	62,000	230,000	80,000	-	NA	**140 J**	NA	< 1100	< 1000
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1100	< 1000
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	< 1000
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1100	< 1000
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**340 JB**	NA	**540 JB**	< 1000
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**120 J**	NA	**170 J**	< 1000
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1100	< 1000
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	< 1100	< 1000
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1100	< 1000
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1100	NA	**140 J**	< 1000
Pyrene	1,700,000	18,000,000	840,000	-	NA	**150 J**	NA	**150 J**	< 1000
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**3,310**	NA	**12,570**	**3,300**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-113	FTMM02-B-114		FTMM02-B-115	
Sample ID					FTMM02-SS-B-113-2-2	FTMM02-SS-B-114-0-1.0	FTMM02-SS-B-114-2-2	FTMM02-SS-B-115-0-1.0	FTMM02-SS-B-115-0-1.0-Dup
Sample Date					5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	**0.027**	NA	< 0.013	**0.017**
4,4'-DDE	2	9	18	-	NA	**0.044**	NA	**0.013**	**0.009**
4,4'-DDT	2	8	11	-	NA	**0.028**	NA	**0.034**	**0.088**
Alpha-Chlordane	NLE	1	NLE	-	NA	**0.017**	NA	< 0.0108	< 0.0108
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0111	NA	< 0.0108	< 0.0108
Endrin	23	340	1	-	NA	< 0.0111	NA	< 0.0108	< 0.0108
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0089	NA	< 0.0086	< 0.0087
Gamma-Chlordane	0.2	1	NLE	-	NA	**0.024**	NA	< 0.0108	< 0.0108
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3567	NA	< 0.3457	< 0.3471
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1427	NA	< 0.1383	< 0.1388
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0892	NA	< 0.0864	< 0.0868
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0803	NA	< 0.0778	< 0.0781
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**9,570**	NA	**11,500**	**18,100**
Antimony	31	450	6	ND	NA	**1.24**	NA	**0.72**	**0.847**
Arsenic	19	19	19	22.9	NA	**8.85**	NA	**10.7**	**11.5**
Barium	16,000	59,000	2,100	32.3	NA	**26.3**	NA	**32.6**	**41.8**
Beryllium	16	140	0.7	2	NA	**0.754**	NA	**0.762**	**1.26**
Cadmium	78	78	2	ND	NA	**4.3**	NA	< 0.116	< 0.115
Calcium	NLE	NLE	NLE	921	NA	**1,790**	NA	**3,650**	**4,270**
Chromium	NLE	NLE	NLE	269	NA	**64.1**	NA	**79.7**	**153**
Cobalt	1,600	590	90	2.5	NA	**2.74**	NA	**2.32**	**2.71**
Copper	3,100	45,000	11,000	8	NA	**26.6**	NA	**15.1**	**21.1**
Iron	NLE	NLE	NLE	55,800	NA	**26,000**	NA	**25,600**	**37,900**
Lead	400	800	90	19.5	NA	**37.9**	NA	**30.4**	**33.6**
Magnesium	NLE	NLE	NLE	7,230	NA	**2,140**	NA	**2,190**	**4,860**
Manganese	11,000	5,900	65	90.7	NA	**69.7**	NA	**212**	**337**
Mercury	23	65	0.1	ND	NA	**0.073**	NA	**0.071**	**0.042**
Nickel	1,600	23,000	48	8.4	NA	**7.32**	NA	**7.96**	**9.25**
Potassium	NLE	NLE	NLE	15,400	NA	**4,490**	NA	**4,130**	**9,780**
Selenium	390	5,700	11	1.9	NA	**0.781**	NA	**0.808**	< 0.687
Silver	390	5,700	1	1.1	NA	< 0.684	NA	< 0.698	< 0.687
Sodium	NLE	NLE	NLE	51.6	NA	**178**	NA	**201**	**413**
Thallium	5	79	3	ND	NA	< 0.684	NA	< 0.698	< 0.687
Vanadium	78	1,100	NLE	94.1	NA	**44.9**	NA	**43.3**	**69.9**
Zinc	23,000	110,000	930	81.4	NA	**83.9**	NA	**87.2**	**109**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-115		FTMM02-B-116		FTMM02-B-117
Sample ID					FTMM02-SS-B-115-2-2	FTMM02-SS-B-115-2-2-Dup	FTMM02-SS-B-116-0-1.0	FTMM02-SS-B-116-2-2	FTMM02-SS-B-117-0-1.0
Sample Date					5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	**4,200**	**4,600**	NA	**4,300**	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 290	< 270	NA	< 270	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 580	< 600	NA	< 530	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 580	< 600	NA	< 530	NA
Toluene	6,300,000	91,000,000	7,000	-	< 290	< 270	NA	< 270	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	**2,400**	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	< 1100	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	< 1100	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	< 1100	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	< 1100	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	NA	NA	< 1100	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	NA	NA	**180 J**	NA	< 1200
Benzo(a)pyrene	200	200	200	-	NA	NA	**170 J**	NA	< 1200
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	**140 J**	NA	< 1200
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	**150 J**	NA	< 1200
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	**140 J**	NA	< 1200
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	**140 J**	NA	**180 J**
Chrysene	62,000	230,000	80,000	-	NA	NA	**300 J**	NA	< 1200
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	< 1100	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	< 1100	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	< 1100	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	**540 JB**	NA	**130 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	**270 J**	NA	< 1200
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	< 1100	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	< 1100	NA	< 1200
Naphthalene	6,000	17,000	25,000	-	NA	NA	< 1100	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	**260 J**	NA	< 1200
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	**360 J**	NA	< 1200
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	**1,400**	NA	**11,800**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-115		FTMM02-B-116		FTMM02-B-117
Sample ID					FTMM02-SS-B-115-2-2	FTMM02-SS-B-115-2-2-Dup	FTMM02-SS-B-116-0-1.0	FTMM02-SS-B-116-2-2	FTMM02-SS-B-117-0-1.0
Sample Date					5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	< 0.0131	NA	< 0.0143
4,4'-DDE	2	9	18	-	NA	NA	< 0.0087	NA	< 0.0095
4,4'-DDT	2	8	11	-	NA	NA	< 0.024	NA	< 0.0262
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	< 0.0109	NA	< 0.0119
Dieldrin	0.04	0.2	0.003	-	NA	NA	< 0.0109	NA	< 0.0119
Endrin	23	340	1	-	NA	NA	< 0.0109	NA	< 0.0119
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	< 0.0087	NA	< 0.0095
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	< 0.0109	NA	< 0.0119
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	< 0.3487	NA	< 0.3805
Aroclor-1248	0.2	1	NLE	-	NA	NA	< 0.1395	NA	< 0.1522
Aroclor-1254	0.2	1	NLE	-	NA	NA	< 0.0872	NA	< 0.0951
Aroclor-1260	0.2	1	NLE	-	NA	NA	< 0.0785	NA	< 0.0856
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	**5,010**	NA	**16,200**
Antimony	31	450	6	ND	NA	NA	**1.28**	NA	**0.789**
Arsenic	19	19	19	22.9	NA	NA	**4.37**	NA	**17.1**
Barium	16,000	59,000	2,100	32.3	NA	NA	**11.5**	NA	**42.5**
Beryllium	16	140	0.7	2	NA	NA	**0.327**	NA	**1.38**
Cadmium	78	78	2	ND	NA	NA	< 0.097	NA	< 0.122
Calcium	NLE	NLE	NLE	921	NA	NA	**852**	NA	**2,850**
Chromium	NLE	NLE	NLE	269	NA	NA	**58.3**	NA	**143**
Cobalt	1,600	590	90	2.5	NA	NA	**1.15**	NA	**2.46**
Copper	3,100	45,000	11,000	8	NA	NA	**15.2**	NA	**29**
Iron	NLE	NLE	NLE	55,800	NA	NA	**14,000**	NA	**40,600**
Lead	400	800	90	19.5	NA	NA	**16.1**	NA	**42.1**
Magnesium	NLE	NLE	NLE	7,230	NA	NA	**799**	NA	**4,660**
Manganese	11,000	5,900	65	90.7	NA	NA	**41.4**	NA	**153**
Mercury	23	65	0.1	ND	NA	NA	< 0.024	NA	**0.08**
Nickel	1,600	23,000	48	8.4	NA	NA	**3.01**	NA	**69.4**
Potassium	NLE	NLE	NLE	15,400	NA	NA	**1,880**	NA	**11,300**
Selenium	390	5,700	11	1.9	NA	NA	< 0.582	NA	**0.897**
Silver	390	5,700	1	1.1	NA	NA	< 0.582	NA	< 0.73
Sodium	NLE	NLE	NLE	51.6	NA	NA	**218**	NA	**215**
Thallium	5	79	3	ND	NA	NA	< 0.582	NA	< 0.73
Vanadium	78	1,100	NLE	94.1	NA	NA	**43.1**	NA	**59.8**
Zinc	23,000	110,000	930	81.4	NA	NA	**52.4**	NA	**102**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-117	FTMM02-B-118		FTMM02-B-119	
Sample ID					FTMM02-SS-B-117-2-2	FTMM02-SS-B-118-0-1.0	FTMM02-SS-B-118-2-2	FTMM02-SS-B-119-0-1.0	FTMM02-SS-B-119-2-2
Sample Date					5/6/1999	5/6/1999	5/6/1999	5/7/1999	5/7/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 570	NA	**4,700**	NA	**3,700**
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 290	NA	< 300	NA	< 250
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 570	NA	< 610	NA	< 510
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 570	NA	< 610	NA	< 510
Toluene	6,300,000	91,000,000	7,000	-	< 290	NA	< 300	NA	< 250
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	**2,500**	NA	**2,300**	NA	**1,700**
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**120 J**	NA	**320 J**	NA
Chrysene	62,000	230,000	80,000	-	NA	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**700 JB**	NA	**870 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	< 1100	NA	**130 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	< 1100	NA	**140 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**12,570**	NA	**15,370**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-117	FTMM02-B-118		FTMM02-B-119	
Sample ID					FTMM02-SS-B-117-2-2	FTMM02-SS-B-118-0-1.0	FTMM02-SS-B-118-2-2	FTMM02-SS-B-119-0-1.0	FTMM02-SS-B-119-2-2
Sample Date					5/6/1999	5/6/1999	5/6/1999	5/7/1999	5/7/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	< 0.0127	NA	**0.172**	NA
4,4'-DDE	2	9	18	-	NA	< 0.0084	NA	**0.34**	NA
4,4'-DDT	2	8	11	-	NA	< 0.0232	NA	**1.836**	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0106	NA	< 0.0112	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0106	NA	< 0.0112	NA
Endrin	23	340	1	-	NA	< 0.0106	NA	< 0.0112	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0084	NA	< 0.0089	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0106	NA	< 0.0112	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3378	NA	< 0.3572	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1351	NA	< 0.1429	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0845	NA	< 0.0893	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.076	NA	< 0.0804	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**10,100**	NA	**18,400**	NA
Antimony	31	450	6	ND	NA	**0.538**	NA	**1.25**	NA
Arsenic	19	19	19	22.9	NA	**5.19**	NA	**17.7**	NA
Barium	16,000	59,000	2,100	32.3	NA	**21.7**	NA	**19.7**	NA
Beryllium	16	140	0.7	2	NA	**0.383**	NA	**1.52**	NA
Cadmium	78	78	2	ND	NA	**0.802**	NA	< 0.117	NA
Calcium	NLE	NLE	NLE	921	NA	**275**	NA	**868**	NA
Chromium	NLE	NLE	NLE	269	NA	**44**	NA	**135**	NA
Cobalt	1,600	590	90	2.5	NA	**1.39**	NA	**2.02**	NA
Copper	3,100	45,000	11,000	8	NA	**7.12**	NA	**12.9**	NA
Iron	NLE	NLE	NLE	55,800	NA	**15,400**	NA	**45,400**	NA
Lead	400	800	90	19.5	NA	**8.74**	NA	**30.4**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**899**	NA	**4,540**	NA
Manganese	11,000	5,900	65	90.7	NA	**54.7**	NA	**52.9**	NA
Mercury	23	65	0.1	ND	NA	**0.035**	NA	**0.043**	NA
Nickel	1,600	23,000	48	8.4	NA	**4.46**	NA	**8.97**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**2,320**	NA	**11,600**	NA
Selenium	390	5,700	11	1.9	NA	< 0.599	NA	**1.34**	NA
Silver	390	5,700	1	1.1	NA	< 0.599	NA	< 0.699	NA
Sodium	NLE	NLE	NLE	51.6	NA	**58.2**	NA	**132**	NA
Thallium	5	79	3	ND	NA	< 0.599	NA	< 0.699	NA
Vanadium	78	1,100	NLE	94.1	NA	**35.6**	NA	**63.1**	NA
Zinc	23,000	110,000	930	81.4	NA	**35.2**	NA	**70.5**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-120		FTMM02-B-121		FTMM02-B-122
Sample ID					FTMM02-SS-B-120-0-1.0	FTMM02-SS-B-120-2-2	FTMM02-SS-B-121-0-1.0	FTMM02-SS-B-121-2-2	FTMM02-SS-B-122-0-1.0
Sample Date					5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	**4,300**	NA	< 590	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 290	NA	< 300	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 570	NA	< 590	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 570	NA	< 590	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 290	NA	< 300	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,200**	NA	**5,500**	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA	< 1100
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA	< 1100
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA	< 1100
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	**140 J**	NA	< 1100
Benzo(a)pyrene	200	200	200	-	< 1100	NA	**110 J**	NA	< 1100
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA	< 1100
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA	< 1100
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA	< 1100
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	**120 J**	NA	< 1100
Chrysene	62,000	230,000	80,000	-	**180 J**	NA	**240 J**	NA	< 1100
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA	< 1100
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA	< 1100
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**220 JB**	NA	**670 JB**	NA	**170 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**150 J**	NA	**250 J**	NA	< 1100
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA	< 1100
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA	< 1100
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**200 J**	NA	< 1100
Pyrene	1,700,000	18,000,000	840,000	-	**210 J**	NA	**240 J**	NA	< 1100
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**4,350**	NA	**15,330**	NA	**11,800**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-120		FTMM02-B-121		FTMM02-B-122
Sample ID					FTMM02-SS-B-120-0-1.0	FTMM02-SS-B-120-2-2	FTMM02-SS-B-121-0-1.0	FTMM02-SS-B-121-2-2	FTMM02-SS-B-122-0-1.0
Sample Date					5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.022**	NA	**0.014**	NA	< 0.0133
4,4'-DDE	2	9	18	-	**0.019**	NA	**0.023**	NA	< 0.0089
4,4'-DDT	2	8	11	-	**0.124**	NA	**0.057**	NA	< 0.0245
Alpha-Chlordane	NLE	1	NLE	-	< 0.0116	NA	< 0.0116	NA	< 0.0111
Dieldrin	0.04	0.2	0.003	-	< 0.0116	NA	< 0.0116	NA	< 0.0111
Endrin	23	340	1	-	< 0.0116	NA	< 0.0116	NA	< 0.0111
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0092	NA	< 0.0093	NA	< 0.0089
Gamma-Chlordane	0.2	1	NLE	-	**0.012**	NA	< 0.0116	NA	< 0.0111
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.0185	NA	< 0.3726	NA	< 0.3557
Aroclor-1248	0.2	1	NLE	-	< 0.0074	NA	< 0.149	NA	< 0.1423
Aroclor-1254	0.2	1	NLE	-	< 0.0046	NA	< 0.0932	NA	< 0.0889
Aroclor-1260	0.2	1	NLE	-	**1.764**	NA	< 0.0838	NA	< 0.08
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**13,200**	NA	**17,700**	NA	**12,000**
Antimony	31	450	6	ND	**0.913**	NA	**0.942**	NA	**0.57**
Arsenic	19	19	19	22.9	**15.5**	NA	**12.4**	NA	**10.1**
Barium	16,000	59,000	2,100	32.3	**29.8**	NA	**37.4**	NA	**20.4**
Beryllium	16	140	0.7	2	**1.19**	NA	**1.13**	NA	**1.18**
Cadmium	78	78	2	ND	< 0.118	NA	< 0.119	NA	< 0.102
Calcium	NLE	NLE	NLE	921	**1,640**	NA	**1,170**	NA	**705**
Chromium	NLE	NLE	NLE	269	**128**	NA	**111**	NA	**99**
Cobalt	1,600	590	90	2.5	**1.38**	NA	**2.39**	NA	**1.86**
Copper	3,100	45,000	11,000	8	**21.8**	NA	**20**	NA	**9.03**
Iron	NLE	NLE	NLE	55,800	**33,200**	NA	**33,300**	NA	**34,500**
Lead	400	800	90	19.5	**30.1**	NA	**32**	NA	**9.95**
Magnesium	NLE	NLE	NLE	7,230	**3,770**	NA	**3,310**	NA	**3,180**
Manganese	11,000	5,900	65	90.7	**57**	NA	**51.8**	NA	**37.5**
Mercury	23	65	0.1	ND	**0.063**	NA	**0.269**	NA	**0.04**
Nickel	1,600	23,000	48	8.4	**6.78**	NA	**7.78**	NA	**6.58**
Potassium	NLE	NLE	NLE	15,400	**9,600**	NA	**8,270**	NA	**9,010**
Selenium	390	5,700	11	1.9	**0.817**	NA	**0.913**	NA	< 0.61
Silver	390	5,700	1	1.1	< 0.709	NA	< 0.716	NA	< 0.61
Sodium	NLE	NLE	NLE	51.6	**247**	NA	**203**	NA	**131**
Thallium	5	79	3	ND	< 0.709	NA	< 0.716	NA	< 0.61
Vanadium	78	1,100	NLE	94.1	**51.1**	NA	**65.2**	NA	**50.7**
Zinc	23,000	110,000	930	81.4	**71.7**	NA	**62.3**	NA	**54.1**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-122	FTMM02-B-123		FTMM02-B-124	
Sample ID					FTMM02-SS-B-122-2-2	FTMM02-SS-B-123-0-1.0	FTMM02-SS-B-123-2-2	FTMM02-SS-B-124-0-1.0	FTMM02-SS-B-124-2-2
Sample Date					5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 610	NA	< 590	NA	< 540
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 310	NA	< 290	NA	< 270
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 610	NA	< 590	NA	< 540
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 610	NA	< 590	NA	< 540
Toluene	6,300,000	91,000,000	7,000	-	< 310	NA	< 290	NA	< 270
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	**4,600**	NA	**4,400**	NA	**2,200**
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1200	NA	< 1200	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1200	NA	**160 J**	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1200	NA	< 1200	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1200	NA	**230 J**	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1200	NA
Benzo(a)anthracene	600	2,000	800	-	NA	< 1200	NA	**720 J**	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1200	NA	**540 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1200	NA	**440 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1200	NA	**440 J**	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1200	NA	**440 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	< 1200	NA	< 1200	NA
Chrysene	62,000	230,000	80,000	-	NA	< 1200	NA	**1,100 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1200	NA	< 1200	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1200	NA	< 1200	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1200	NA	< 1200	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**250 JB**	NA	< 1200	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	< 1200	NA	**1,600**	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1200	NA	< 1200	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1200	NA	**340 J**	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1200	NA	< 1200	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1200	NA	**1,300**	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	< 1200	NA	**1,800**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**4,110**	NA	ND	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-122	FTMM02-B-123		FTMM02-B-124	
Sample ID					FTMM02-SS-B-122-2-2	FTMM02-SS-B-123-0-1.0	FTMM02-SS-B-123-2-2	FTMM02-SS-B-124-0-1.0	FTMM02-SS-B-124-2-2
Sample Date					5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	< 0.0139	NA	< 0.0148	NA
4,4'-DDE	2	9	18	-	NA	**0.013**	NA	**0.012**	NA
4,4'-DDT	2	8	11	-	NA	< 0.0256	NA	< 0.0272	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0116	NA	< 0.0124	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0116	NA	< 0.0124	NA
Endrin	23	340	1	-	NA	< 0.0116	NA	< 0.0124	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0093	NA	< 0.0099	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0116	NA	< 0.0124	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3719	NA	< 0.0989	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1488	NA	< 0.0396	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.093	NA	< 0.0247	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0837	NA	< 0.0222	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**17,200**	NA	**18,600**	NA
Antimony	31	450	6	ND	NA	**1.12**	NA	**0.932**	NA
Arsenic	19	19	19	22.9	NA	**13.2**	NA	**15.6**	NA
Barium	16,000	59,000	2,100	32.3	NA	**38.7**	NA	**49.9**	NA
Beryllium	16	140	0.7	2	NA	**1.32**	NA	**1.68**	NA
Cadmium	78	78	2	ND	NA	< 0.099	NA	**0.885**	NA
Calcium	NLE	NLE	NLE	921	NA	**3,480**	NA	**2,810**	NA
Chromium	NLE	NLE	NLE	269	NA	**157**	NA	**136**	NA
Cobalt	1,600	590	90	2.5	NA	**2.88**	NA	**3.64**	NA
Copper	3,100	45,000	11,000	8	NA	**25.5**	NA	**21.4**	NA
Iron	NLE	NLE	NLE	55,800	NA	**40,400**	NA	**48,900**	NA
Lead	400	800	90	19.5	NA	**36.5**	NA	**43.3**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**4,520**	NA	**4,670**	NA
Manganese	11,000	5,900	65	90.7	NA	**298**	NA	**147**	NA
Mercury	23	65	0.1	ND	NA	**0.054**	NA	**0.099**	NA
Nickel	1,600	23,000	48	8.4	NA	**9.28**	NA	**11.2**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**10,100**	NA	**12,700**	NA
Selenium	390	5,700	11	1.9	NA	**1.08**	NA	**1.02**	NA
Silver	390	5,700	1	1.1	NA	< 0.593	NA	< 0.646	NA
Sodium	NLE	NLE	NLE	51.6	NA	**222**	NA	**199**	NA
Thallium	5	79	3	ND	NA	< 0.593	NA	< 0.646	NA
Vanadium	78	1,100	NLE	94.1	NA	**65.6**	NA	**63.1**	NA
Zinc	23,000	110,000	930	81.4	NA	**95.6**	NA	**125**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-125		FTMM02-B-126		FTMM02-B-127
Sample ID					FTMM02-SS-B-125-0-1.0	FTMM02-SS-B-125-2-2	FTMM02-SS-B-126-0-1.0	FTMM02-SS-B-126-2-2	FTMM02-SS-B-127-0-1.0
Sample Date					5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 570	NA	< 640	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 320	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 570	NA	< 640	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 570	NA	< 640	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 320	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,200**	NA	**4,200**	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1300	NA	< 1100	NA	< 1100
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1300	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	300,000,000	NLE	-	< 1300	NA	< 1100	NA	< 1100
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1300	NA	< 1100	NA	< 1100
Azobenzene	NLE	NLE	NLE	-	< 1300	NA	< 1100	NA	< 1100
Benzo(a)anthracene	600	2,000	800	-	**150 J**	NA	< 1100	NA	< 1100
Benzo(a)pyrene	200	200	200	-	**160 J**	NA	< 1100	NA	< 1100
Benzo(b)fluoranthene	600	2,000	2,000	-	**140 J**	NA	< 1100	NA	< 1100
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1300	NA	< 1100	NA	< 1100
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**130 J**	NA	< 1100	NA	< 1100
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**390 J**	NA	< 1100	NA	< 1100
Chrysene	62,000	230,000	80,000	-	**250 J**	NA	< 1100	NA	< 1100
Dibenz(a,h)anthracene	200	200	800	-	< 1300	NA	< 1100	NA	< 1100
Dibenzofuran	NLE	NLE	NLE	-	< 1300	NA	< 1100	NA	< 1100
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1300	NA	< 1100	NA	< 1100
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	< 1300	NA	**290 JB**	NA	**560 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**200 J**	NA	< 1100	NA	< 1100
Fluorene	2,300,000	24,000,000	170,000	-	< 1300	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1300	NA	< 1100	NA	< 1100
Naphthalene	6,000	17,000	25,000	-	< 1300	NA	< 1100	NA	< 1100
Phenanthrene	NLE	300,000,000	NLE	-	< 1300	NA	< 1100	NA	< 1100
Pyrene	1,700,000	18,000,000	840,000	-	**270 J**	NA	< 1100	NA	< 1100
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**630**	NA	**6,730**	NA	**13,540**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-125		FTMM02-B-126		FTMM02-B-127
Sample ID					FTMM02-SS-B-125-0-1.0	FTMM02-SS-B-125-2-2	FTMM02-SS-B-126-0-1.0	FTMM02-SS-B-126-2-2	FTMM02-SS-B-127-0-1.0
Sample Date					5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.022**	NA	< 0.0127	NA	**0.017**
4,4'-DDE	2	9	18	-	**0.026**	NA	< 0.0084	NA	**0.013**
4,4'-DDT	2	8	11	-	< 0.0103	NA	< 0.0232	NA	**0.038**
Alpha-Chlordane	NLE	1	NLE	-	< 0.0128	NA	< 0.0106	NA	< 0.0113
Dieldrin	0.04	0.2	0.003	-	< 0.0128	NA	< 0.0106	NA	< 0.0113
Endrin	23	340	1	-	< 0.0128	NA	< 0.0106	NA	< 0.0113
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0103	NA	< 0.0084	NA	< 0.0091
Gamma-Chlordane	0.2	1	NLE	-	< 0.0128	NA	< 0.0106	NA	< 0.0113
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.1026	NA	< 0.3378	NA	< 0.3626
Aroclor-1248	0.2	1	NLE	-	< 0.0441	NA	< 0.1351	NA	< 0.145
Aroclor-1254	0.2	1	NLE	-	< 0.0257	NA	< 0.0844	NA	< 0.0907
Aroclor-1260	0.2	1	NLE	-	< 0.0231	NA	< 0.076	NA	< 0.0816
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**12,800**	NA	**5,780**	NA	**12,600**
Antimony	31	450	6	ND	**1.1**	NA	**1.02**	NA	**1.1**
Arsenic	19	19	19	22.9	**10.4**	NA	**4.47**	NA	**21.2**
Barium	16,000	59,000	2,100	32.3	**37.6**	NA	**9.7**	NA	**19.2**
Beryllium	16	140	0.7	2	**0.949**	NA	**0.29**	NA	**1.01**
Cadmium	78	78	2	ND	< 0.119	NA	< 0.105	NA	< 0.118
Calcium	NLE	NLE	NLE	921	**2,710**	NA	**111**	NA	**1,260**
Chromium	NLE	NLE	NLE	269	**97.5**	NA	**30.9**	NA	**103**
Cobalt	1,600	590	90	2.5	**2.84**	NA	**1.08**	NA	**1.3**
Copper	3,100	45,000	11,000	8	**22.9**	NA	**4.32**	NA	**12.1**
Iron	NLE	NLE	NLE	55,800	**30,700**	NA	**13,100**	NA	**29,000**
Lead	400	800	90	19.5	**47.6**	NA	**5.27**	NA	**18.7**
Magnesium	NLE	NLE	NLE	7,230	**3,320**	NA	**575**	NA	**2,430**
Manganese	11,000	5,900	65	90.7	**175**	NA	**35.3**	NA	**56.1**
Mercury	23	65	0.1	ND	**0.101**	NA	**0.066**	NA	**0.153**
Nickel	1,600	23,000	48	8.4	**17**	NA	**3.53**	NA	**6.12**
Potassium	NLE	NLE	NLE	15,400	**7,370**	NA	**1,450**	NA	**5,980**
Selenium	390	5,700	11	1.9	**0.902**	NA	**0.711**	NA	**2.28**
Silver	390	5,700	1	1.1	< 0.715	NA	< 0.628	NA	< 0.71
Sodium	NLE	NLE	NLE	51.6	**222**	NA	**94.4**	NA	**111**
Thallium	5	79	3	ND	< 0.715	NA	< 0.628	NA	< 0.71
Vanadium	78	1,100	NLE	94.1	**49.9**	NA	**26.5**	NA	**40**
Zinc	23,000	110,000	930	81.4	**125**	NA	**29.6**	NA	**72**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-127	FTMM02-B-128		FTMM02-B-129	
Sample ID					FTMM02-SS-B-127-2-2	FTMM02-SS-B-128-0-1.0	FTMM02-SS-B-128-2-2	FTMM02-SS-B-129-0-1.0	FTMM02-SS-B-129-2-2
Sample Date					5/7/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 570	NA	< 730	NA	< 540
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 290	NA	< 360	NA	< 270
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 570	NA	< 730	NA	< 540
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 570	NA	< 730	NA	< 540
Toluene	6,300,000	91,000,000	7,000	-	< 290	NA	< 360	NA	< 270
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	**2,200**	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1200	NA	< 1200	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1200	NA	< 1200	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1200	NA	< 1200	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1200	NA	< 1200	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1200	NA
Benzo(a)anthracene	600	2,000	800	-	NA	**180 J**	NA	**190 J**	NA
Benzo(a)pyrene	200	200	200	-	NA	**190 J**	NA	**190 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	**170 J**	NA	**180 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	**140 J**	NA	< 1200	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	**180 J**	NA	**150 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**260 J**	NA	**270 J**	NA
Chrysene	62,000	230,000	80,000	-	NA	**410 J**	NA	**370 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1200	NA	< 1200	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1200	NA	< 1200	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1200	NA	< 1200	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**670 JB**	NA	**610 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**350 J**	NA	**300 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1200	NA	< 1200	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	**130 J**	NA	< 1200	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1200	NA	< 1200	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	**210 J**	NA	**180 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	**380 J**	NA	**320 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**30,530**	NA	**23,020**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-127	FTMM02-B-128		FTMM02-B-129	
Sample ID					FTMM02-SS-B-127-2-2	FTMM02-SS-B-128-0-1.0	FTMM02-SS-B-128-2-2	FTMM02-SS-B-129-0-1.0	FTMM02-SS-B-129-2-2
Sample Date					5/7/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	**0.025**	NA	**0.059**	NA
4,4'-DDE	2	9	18	-	NA	**0.021**	NA	**0.035**	NA
4,4'-DDT	2	8	11	-	NA	< 0.0272	NA	**0.04**	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0124	NA	**0.013**	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0124	NA	< 0.0121	NA
Endrin	23	340	1	-	NA	< 0.0124	NA	< 0.0121	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0099	NA	< 0.0097	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0124	NA	**0.015**	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.099	NA	< 0.097	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.0396	NA	< 0.0388	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0247	NA	< 0.0242	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0223	NA	< 0.0218	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**11,000**	NA	**10,500**	NA
Antimony	31	450	6	ND	NA	**1.43**	NA	**0.861**	NA
Arsenic	19	19	19	22.9	NA	**10.3**	NA	**8.7**	NA
Barium	16,000	59,000	2,100	32.3	NA	**33.8**	NA	**35.3**	NA
Beryllium	16	140	0.7	2	NA	**0.907**	NA	**0.816**	NA
Cadmium	78	78	2	ND	NA	**1.34**	NA	**0.595**	NA
Calcium	NLE	NLE	NLE	921	NA	**2,530**	NA	**1,930**	NA
Chromium	NLE	NLE	NLE	269	NA	**170**	NA	**81.4**	NA
Cobalt	1,600	590	90	2.5	NA	**2.46**	NA	**2.29**	NA
Copper	3,100	45,000	11,000	8	NA	**20.5**	NA	**19.9**	NA
Iron	NLE	NLE	NLE	55,800	NA	**28,500**	NA	**25,500**	NA
Lead	400	800	90	19.5	NA	**41.9**	NA	**72.7**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**3,590**	NA	**2,800**	NA
Manganese	11,000	5,900	65	90.7	NA	**164**	NA	**66**	NA
Mercury	23	65	0.1	ND	NA	**0.619**	NA	**1.571**	NA
Nickel	1,600	23,000	48	8.4	NA	**9.27**	NA	**7.78**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**6,860**	NA	**5,660**	NA
Selenium	390	5,700	11	1.9	NA	**1.27**	NA	**1.36**	NA
Silver	390	5,700	1	1.1	NA	< 0.716	NA	< 0.714	NA
Sodium	NLE	NLE	NLE	51.6	NA	**141**	NA	**158**	NA
Thallium	5	79	3	ND	NA	< 0.716	NA	< 0.714	NA
Vanadium	78	1,100	NLE	94.1	NA	**48.3**	NA	**50**	NA
Zinc	23,000	110,000	930	81.4	NA	**83.7**	NA	**87.4**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-13		FTMM02-B-130		FTMM02-B-131
Sample ID					FTMM02-SS-B-13-0-1.0	FTMM02-SS-B-13-2-2	FTMM02-SS-B-130-0-1.0	FTMM02-SS-B-130-2-2	FTMM02-SS-B-131-0-1.0
Sample Date					2/23/1999	2/23/1999	5/10/1999	5/10/1999	5/10/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 610	NA	< 640	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 310	NA	< 320	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 610	NA	< 640	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 610	NA	< 640	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 310	NA	< 320	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1200	NA	**160 J**
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1200	NA	**580 J**
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1200	NA	**750 J**
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	**170 J**	NA	**1,600**
Benzo(a)pyrene	200	200	200	-	< 1100	NA	**210 J**	NA	**1,600**
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	**180 J**	NA	**1,300**
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	**160 J**	NA	**930 J**
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	**180 J**	NA	**1,300**
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**110 J**	NA	**150 J**	NA	**120 J**
Chrysene	62,000	230,000	80,000	-	< 1100	NA	**330 J**	NA	**2,800**
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1200	NA	**290 J**
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	**310 J**
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1200	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**740 JB**	NA	**190 JB**	NA	**810 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	**260 J**	NA	**4,200**
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1200	NA	**500 J**
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	**150 J**	NA	**900 J**
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1200	NA	**400 J**
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**160 J**	NA	**4,000**
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	**290 J**	NA	**3,400**
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**7,700**	NA	**17,670**	NA	**15,520**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-13		FTMM02-B-130		FTMM02-B-131
Sample ID					FTMM02-SS-B-13-0-1.0	FTMM02-SS-B-13-2-2	FTMM02-SS-B-130-0-1.0	FTMM02-SS-B-130-2-2	FTMM02-SS-B-131-0-1.0
Sample Date					2/23/1999	2/23/1999	5/10/1999	5/10/1999	5/10/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	< 0.0123	NA	**0.019**	NA	< 0.0141
4,4'-DDE	2	9	18	-	< 0.0082	NA	**0.014**	NA	**0.01**
4,4'-DDT	2	8	11	-	< 0.0225	NA	< 0.0256	NA	< 0.0258
Alpha-Chlordane	NLE	1	NLE	-	< 0.0102	NA	< 0.0116	NA	< 0.0117
Dieldrin	0.04	0.2	0.003	-	< 0.0102	NA	< 0.0116	NA	< 0.0117
Endrin	23	340	1	-	< 0.0102	NA	< 0.0116	NA	< 0.0117
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0082	NA	< 0.0093	NA	< 0.0094
Gamma-Chlordane	0.2	1	NLE	-	< 0.0102	NA	< 0.0116	NA	< 0.0117
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3277	NA	< 0.3726	NA	< 0.375
Aroclor-1248	0.2	1	NLE	-	< 0.1311	NA	< 0.149	NA	< 0.15
Aroclor-1254	0.2	1	NLE	-	< 0.0819	NA	< 0.0932	NA	< 0.0938
Aroclor-1260	0.2	1	NLE	-	< 0.0737	NA	< 0.0838	NA	< 0.0844
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**4,850**	NA	**12,100**	NA	**17,300**
Antimony	31	450	6	ND	**0.653**	NA	**1.1**	NA	**1.16**
Arsenic	19	19	19	22.9	**5.41**	NA	**19.4**	NA	**15.1**
Barium	16,000	59,000	2,100	32.3	**9.51**	NA	**42.5**	NA	**54.3**
Beryllium	16	140	0.7	2	**0.492**	NA	**1.15**	NA	**1.82**
Cadmium	78	78	2	ND	**0.158**	NA	**0.699**	NA	**0.697**
Calcium	NLE	NLE	NLE	921	**212**	NA	**5,190**	NA	**800**
Chromium	NLE	NLE	NLE	269	**81.5**	NA	**175**	NA	**235**
Cobalt	1,600	590	90	2.5	**0.918**	NA	**2.13**	NA	**1.04**
Copper	3,100	45,000	11,000	8	**7.61**	NA	**24.3**	NA	**11.8**
Iron	NLE	NLE	NLE	55,800	**18,800**	NA	**44,500**	NA	**56,500**
Lead	400	800	90	19.5	**8.5**	NA	**29.8**	NA	**11.2**
Magnesium	NLE	NLE	NLE	7,230	**1,170**	NA	**4,380**	NA	**7,390**
Manganese	11,000	5,900	65	90.7	**14**	NA	**503**	NA	**31**
Mercury	23	65	0.1	ND	**0.64**	NA	**0.585**	NA	**0.292**
Nickel	1,600	23,000	48	8.4	**3.11**	NA	**7.67**	NA	**7.75**
Potassium	NLE	NLE	NLE	15,400	**3,040**	NA	**8,260**	NA	**16,900**
Selenium	390	5,700	11	1.9	**0.65**	NA	**2.7**	NA	**3.06**
Silver	390	5,700	1	1.1	< 0.645	NA	< 0.649	NA	< 0.658
Sodium	NLE	NLE	NLE	51.6	**58.6**	NA	**928**	NA	**869**
Thallium	5	79	3	ND	< 0.645	NA	< 0.649	NA	< 0.658
Vanadium	78	1,100	NLE	94.1	**69.7**	NA	**52.6**	NA	**71.9**
Zinc	23,000	110,000	930	81.4	**42.8**	NA	**90.3**	NA	**81**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-131	FTMM02-B-132		FTMM02-B-133	
Sample ID					FTMM02-SS-B-131-2-2	FTMM02-SS-B-132-0-1.0	FTMM02-SS-B-132-2-2	FTMM02-SS-B-133-0-1.0	FTMM02-SS-B-133-2-2
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 850	NA	< 570	NA	< 540
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 420	NA	< 290	NA	< 270
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 850	NA	< 570	NA	< 540
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 850	NA	< 570	NA	< 540
Toluene	6,300,000	91,000,000	7,000	-	< 420	NA	< 290	NA	< 270
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1200	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1200	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1200	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	**210 J**	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	NA	**840 J**	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	NA	**770 J**	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	**680 J**	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	**450 J**	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	**630 J**	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**160 J**	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	NA	**1,400**	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1200	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1200	NA	**110 J**	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**480 JB**	NA	**160 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**1,900**	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1200	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	**440 J**	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1200	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	**710 J**	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	**1,500**	NA	< 1100	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**14,230**	NA	**10,190**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-131	FTMM02-B-132		FTMM02-B-133	
Sample ID					FTMM02-SS-B-131-2-2	FTMM02-SS-B-132-0-1.0	FTMM02-SS-B-132-2-2	FTMM02-SS-B-133-0-1.0	FTMM02-SS-B-133-2-2
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	< 0.014	NA	< 0.0125	NA
4,4'-DDE	2	9	18	-	NA	**0.018**	NA	< 0.0083	NA
4,4'-DDT	2	8	11	-	NA	< 0.0257	NA	< 0.0229	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0117	NA	< 0.0104	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0117	NA	< 0.0104	NA
Endrin	23	340	1	-	NA	< 0.0117	NA	< 0.0104	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0094	NA	< 0.0083	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0117	NA	< 0.0104	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3742	NA	< 0.3334	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1497	NA	< 0.1334	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0935	NA	< 0.0833	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0842	NA	< 0.075	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**12,500**	NA	**5,940**	NA
Antimony	31	450	6	ND	NA	**0.712**	NA	< 0.408	NA
Arsenic	19	19	19	22.9	NA	**11**	NA	**4.56**	NA
Barium	16,000	59,000	2,100	32.3	NA	**32.4**	NA	**24**	NA
Beryllium	16	140	0.7	2	NA	**1.28**	NA	**0.331**	NA
Cadmium	78	78	2	ND	NA	**0.563**	NA	**0.246**	NA
Calcium	NLE	NLE	NLE	921	NA	**2,610**	NA	**353**	NA
Chromium	NLE	NLE	NLE	269	NA	**104**	NA	**37.3**	NA
Cobalt	1,600	590	90	2.5	NA	**2.63**	NA	**1.52**	NA
Copper	3,100	45,000	11,000	8	NA	**11**	NA	**10.8**	NA
Iron	NLE	NLE	NLE	55,800	NA	**39,300**	NA	**14,400**	NA
Lead	400	800	90	19.5	NA	**28.4**	NA	**10.5**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**4,170**	NA	**899**	NA
Manganese	11,000	5,900	65	90.7	NA	**87.8**	NA	**65.2**	NA
Mercury	23	65	0.1	ND	NA	**0.244**	NA	**0.161**	NA
Nickel	1,600	23,000	48	8.4	NA	**9.48**	NA	**3.71**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**9,620**	NA	**1,930**	NA
Selenium	390	5,700	11	1.9	NA	**1.02**	NA	**0.808**	NA
Silver	390	5,700	1	1.1	NA	< 0.63	NA	< 0.613	NA
Sodium	NLE	NLE	NLE	51.6	NA	**367**	NA	**419**	NA
Thallium	5	79	3	ND	NA	< 0.63	NA	< 0.613	NA
Vanadium	78	1,100	NLE	94.1	NA	**53.6**	NA	**32.9**	NA
Zinc	23,000	110,000	930	81.4	NA	**66.4**	NA	**51.7**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-134		FTMM02-B-135		FTMM02-B-136
Sample ID					FTMM02-SS-B-134-0-1.0	FTMM02-SS-B-134-2-2	FTMM02-SS-B-135-0-1.0	FTMM02-SS-B-135-2-2	FTMM02-SS-B-136-0-1.0
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 500	NA	< 560	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 250	NA	< 280	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 500	NA	< 560	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 500	NA	< 560	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 250	NA	< 280	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1000	NA	< 1200	NA	< 1300
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1000	NA	< 1200	NA	< 1300
Acenaphthylene	NLE	300,000,000	NLE	-	< 1000	NA	< 1200	NA	< 1300
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1000	NA	< 1200	NA	< 1300
Azobenzene	NLE	NLE	NLE	-	< 1000	NA	< 1200	NA	< 1300
Benzo(a)anthracene	600	2,000	800	-	< 1000	NA	< 1200	NA	< 1300
Benzo(a)pyrene	200	200	200	-	< 1000	NA	< 1200	NA	< 1300
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1000	NA	**120 J**	NA	< 1300
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1000	NA	< 1200	NA	< 1300
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1000	NA	< 1200	NA	< 1300
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**140 J**	NA	**220 J**	NA	**170 J**
Chrysene	62,000	230,000	80,000	-	< 1000	NA	**290 J**	NA	< 1300
Dibenz(a,h)anthracene	200	200	800	-	< 1000	NA	< 1200	NA	< 1300
Dibenzofuran	NLE	NLE	NLE	-	< 1000	NA	< 1200	NA	< 1300
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1000	NA	**170 J**	NA	< 1300
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**550 JB**	NA	**450 JB**	NA	**880 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1000	NA	**230 J**	NA	< 1300
Fluorene	2,300,000	24,000,000	170,000	-	< 1000	NA	< 1200	NA	< 1300
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1000	NA	< 1200	NA	< 1300
Naphthalene	6,000	17,000	25,000	-	< 1000	NA	< 1200	NA	< 1300
Phenanthrene	NLE	300,000,000	NLE	-	< 1000	NA	< 1200	NA	< 1300
Pyrene	1,700,000	18,000,000	840,000	-	< 1000	NA	**200 J**	NA	< 1300
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**17,580**	NA	**42,410**	NA	**22,260**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-134		FTMM02-B-135		FTMM02-B-136
Sample ID					FTMM02-SS-B-134-0-1.0	FTMM02-SS-B-134-2-2	FTMM02-SS-B-135-0-1.0	FTMM02-SS-B-135-2-2	FTMM02-SS-B-136-0-1.0
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	< 0.0125	NA	**0.044**	NA	**0.08**
4,4'-DDE	2	9	18	-	< 0.0084	NA	**0.029**	NA	**0.021**
4,4'-DDT	2	8	11	-	< 0.023	NA	**0.032**	NA	< 0.0289
Alpha-Chlordane	NLE	1	NLE	-	< 0.0104	NA	< 0.0118	NA	< 0.0131
Dieldrin	0.04	0.2	0.003	-	< 0.0104	NA	**0.029**	NA	< 0.0131
Endrin	23	340	1	-	< 0.0104	NA	< 0.0118	NA	< 0.0131
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0084	NA	< 0.0094	NA	< 0.0105
Gamma-Chlordane	0.2	1	NLE	-	< 0.0104	NA	< 0.0118	NA	< 0.0131
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3342	NA	< 0.3764	NA	< 0.1049
Aroclor-1248	0.2	1	NLE	-	< 0.1337	NA	< 0.1506	NA	< 0.042
Aroclor-1254	0.2	1	NLE	-	< 0.0835	NA	< 0.0941	NA	< 0.0262
Aroclor-1260	0.2	1	NLE	-	< 0.0752	NA	< 0.0847	NA	< 0.0236
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**8,930**	NA	**12,500**	NA	**7,700**
Antimony	31	450	6	ND	< 0.365	NA	**1.19**	NA	**0.903**
Arsenic	19	19	19	22.9	**4.2**	NA	**16.2**	NA	**14.9**
Barium	16,000	59,000	2,100	32.3	**16.8**	NA	**29.6**	NA	**83.4**
Beryllium	16	140	0.7	2	**0.359**	NA	**1.06**	NA	**1.12**
Cadmium	78	78	2	ND	**0.217**	NA	**1.21**	NA	**0.413**
Calcium	NLE	NLE	NLE	921	**180**	NA	**1,910**	NA	**2,110**
Chromium	NLE	NLE	NLE	269	**37.6**	NA	**115**	NA	**113**
Cobalt	1,600	590	90	2.5	**1.46**	NA	**1.72**	NA	**1.24**
Copper	3,100	45,000	11,000	8	**4.3**	NA	**28.8**	NA	**11**
Iron	NLE	NLE	NLE	55,800	**15,100**	NA	**33,100**	NA	**32,000**
Lead	400	800	90	19.5	**5.79**	NA	**36.9**	NA	**13.4**
Magnesium	NLE	NLE	NLE	7,230	**993**	NA	**3,750**	NA	**3,950**
Manganese	11,000	5,900	65	90.7	**38.6**	NA	**66.2**	NA	**50.5**
Mercury	23	65	0.1	ND	**0.241**	NA	**0.627**	NA	**0.202**
Nickel	1,600	23,000	48	8.4	**4**	NA	**8.01**	NA	**5.68**
Potassium	NLE	NLE	NLE	15,400	**2,330**	NA	**7,480**	NA	**9,840**
Selenium	390	5,700	11	1.9	< 0.548	NA	**1.74**	NA	**3.15**
Silver	390	5,700	1	1.1	< 0.548	NA	**1.58**	NA	< 0.713
Sodium	NLE	NLE	NLE	51.6	**78.6**	NA	**888**	NA	**159**
Thallium	5	79	3	ND	< 0.548	NA	< 0.69	NA	< 0.713
Vanadium	78	1,100	NLE	94.1	**32.7**	NA	**59.5**	NA	**31**
Zinc	23,000	110,000	930	81.4	**18.4**	NA	**78.3**	NA	**109**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-136			FTMM02-B-137	
Sample ID					FTMM02-SS-B-136-0-1.0-Dup	FTMM02-SS-B-136-2-2	FTMM02-SS-B-136-2-2-Dup	FTMM02-SS-B-137-0-1.0	FTMM02-SS-B-137-2-2
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 530	< 550	NA	< 550
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	< 270	NA	< 270
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 530	< 550	NA	< 550
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 530	< 550	NA	< 550
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	< 270	NA	< 270
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1300	NA	NA	< 1200	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1300	NA	NA	< 1200	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1300	NA	NA	< 1200	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1300	NA	NA	< 1200	NA
Azobenzene	NLE	NLE	NLE	-	< 1300	NA	NA	< 1200	NA
Benzo(a)anthracene	600	2,000	800	-	< 1300	NA	NA	**180 J**	NA
Benzo(a)pyrene	200	200	200	-	< 1300	NA	NA	**170 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1300	NA	NA	**150 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1300	NA	NA	< 1200	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1300	NA	NA	**150 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1300	NA	NA	**150 J**	NA
Chrysene	62,000	230,000	80,000	-	< 1300	NA	NA	**340 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1300	NA	NA	< 1200	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1300	NA	NA	< 1200	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1300	NA	NA	< 1200	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**240 JB**	NA	NA	**930 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1300	NA	NA	**340 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1300	NA	NA	< 1200	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1300	NA	NA	< 1200	NA
Naphthalene	6,000	17,000	25,000	-	< 1300	NA	NA	< 1200	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1300	NA	NA	**210 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1300	NA	NA	**290 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**10,100**	NA	NA	**21,740**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-136			FTMM02-B-137	
Sample ID					FTMM02-SS-B-136-0-1.0-Dup	FTMM02-SS-B-136-2-2	FTMM02-SS-B-136-2-2-Dup	FTMM02-SS-B-137-0-1.0	FTMM02-SS-B-137-2-2
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.163**	NA	NA	**0.033**	NA
4,4'-DDE	2	9	18	-	**0.032**	NA	NA	**0.018**	NA
4,4'-DDT	2	8	11	-	< 0.029	NA	NA	< 0.0258	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0132	NA	NA	< 0.0117	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0132	NA	NA	< 0.0117	NA
Endrin	23	340	1	-	< 0.0132	NA	NA	< 0.0117	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0106	NA	NA	< 0.0094	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0132	NA	NA	< 0.0117	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.1056	NA	NA	< 0.3754	NA
Aroclor-1248	0.2	1	NLE	-	< 0.0422	NA	NA	< 0.1502	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0264	NA	NA	< 0.0938	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0238	NA	NA	< 0.0845	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**9,440**	NA	NA	**9,250**	NA
Antimony	31	450	6	ND	**0.995**	NA	NA	**0.971**	NA
Arsenic	19	19	19	22.9	**11.1**	NA	NA	**6.79**	NA
Barium	16,000	59,000	2,100	32.3	**60.4**	NA	NA	**27.2**	NA
Beryllium	16	140	0.7	2	**1.27**	NA	NA	**0.697**	NA
Cadmium	78	78	2	ND	**0.455**	NA	NA	**0.681**	NA
Calcium	NLE	NLE	NLE	921	**1,820**	NA	NA	**1,710**	NA
Chromium	NLE	NLE	NLE	269	**114**	NA	NA	**63.8**	NA
Cobalt	1,600	590	90	2.5	**1.47**	NA	NA	**2.08**	NA
Copper	3,100	45,000	11,000	8	**16**	NA	NA	**11.9**	NA
Iron	NLE	NLE	NLE	55,800	**29,000**	NA	NA	**23,400**	NA
Lead	400	800	90	19.5	**22**	NA	NA	**40.4**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,670**	NA	NA	**2,400**	NA
Manganese	11,000	5,900	65	90.7	**43.7**	NA	NA	**62.6**	NA
Mercury	23	65	0.1	ND	**0.2**	NA	NA	**0.19**	NA
Nickel	1,600	23,000	48	8.4	**6.79**	NA	NA	**7.74**	NA
Potassium	NLE	NLE	NLE	15,400	**8,460**	NA	NA	**5,040**	NA
Selenium	390	5,700	11	1.9	**2.45**	NA	NA	**1.15**	NA
Silver	390	5,700	1	1.1	< 0.714	NA	NA	< 0.65	NA
Sodium	NLE	NLE	NLE	51.6	**737**	NA	NA	**162**	NA
Thallium	5	79	3	ND	< 0.714	NA	NA	< 0.65	NA
Vanadium	78	1,100	NLE	94.1	**43.6**	NA	NA	**52.1**	NA
Zinc	23,000	110,000	930	81.4	**86.7**	NA	NA	**63.7**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-138		FTMM02-B-139		FTMM02-B-14
Sample ID					FTMM02-SS-B-138-0-1.0	FTMM02-SS-B-138-2-2	FTMM02-SS-B-139-0-1.0	FTMM02-SS-B-139-2-2	FTMM02-SS-B-14-0-1.0
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	2/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 570	NA	< 560	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 290	NA	< 280	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 570	NA	< 560	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 570	NA	< 560	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 290	NA	< 280	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1200	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1200	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1200	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	**240 J**	NA	**220 J**
Benzo(a)pyrene	200	200	200	-	< 1100	NA	**270 J**	NA	**200 J**
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	**260 J**	NA	**160 J**
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	**170 J**	NA	**130 J**
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	**230 J**	NA	**180 J**
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	**130 J**	NA	**160 J**
Chrysene	62,000	230,000	80,000	-	< 1100	NA	**460 J**	NA	**440 J**
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1200	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1200	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**230 JB**	NA	**410 JB**	NA	**1,300 B**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	**340 J**	NA	**460 J**
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1200	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	**180 J**	NA	**120 J**
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1200	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA	**390 J**
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	**330 J**	NA	**460 J**
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**12,570**	NA	**25,680**	NA	**17,700**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-138		FTMM02-B-139		FTMM02-B-14
Sample ID					FTMM02-SS-B-138-0-1.0	FTMM02-SS-B-138-2-2	FTMM02-SS-B-139-0-1.0	FTMM02-SS-B-139-2-2	FTMM02-SS-B-14-0-1.0
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	2/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.21**	NA	**0.033**	NA	**0.069**
4,4'-DDE	2	9	18	-	**0.056**	NA	**0.019**	NA	**0.069**
4,4'-DDT	2	8	11	-	< 0.0247	NA	**0.028**	NA	**0.079**
Alpha-Chlordane	NLE	1	NLE	-	< 0.0112	NA	< 0.0119	NA	< 0.0119
Dieldrin	0.04	0.2	0.003	-	< 0.0112	NA	< 0.0119	NA	< 0.0119
Endrin	23	340	1	-	< 0.0112	NA	< 0.0119	NA	< 0.0119
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.009	NA	< 0.0096	NA	< 0.0095
Gamma-Chlordane	0.2	1	NLE	-	**0.019**	NA	< 0.0119	NA	< 0.0119
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3597	NA	< 0.3824	NA	< 0.3817
Aroclor-1248	0.2	1	NLE	-	< 0.1439	NA	< 0.1529	NA	< 0.1527
Aroclor-1254	0.2	1	NLE	-	< 0.0809	NA	< 0.0956	NA	< 0.0954
Aroclor-1260	0.2	1	NLE	-	< 0.0809	NA	< 0.086	NA	< 0.0859
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**6,700**	NA	**12,000**	NA	**11,100**
Antimony	31	450	6	ND	**3.4**	NA	**0.868**	NA	**0.919**
Arsenic	19	19	19	22.9	**6.9**	NA	**13.7**	NA	**12.3**
Barium	16,000	59,000	2,100	32.3	**38.8**	NA	**40.1**	NA	**68.3**
Beryllium	16	140	0.7	2	**0.564**	NA	**1.12**	NA	**2.11**
Cadmium	78	78	2	ND	**0.328**	NA	**0.573**	NA	**0.674**
Calcium	NLE	NLE	NLE	921	**1,710**	NA	**1,820**	NA	**1,030**
Chromium	NLE	NLE	NLE	269	**41.9**	NA	**99.7**	NA	**106**
Cobalt	1,600	590	90	2.5	**4.96**	NA	**2.61**	NA	**3.72**
Copper	3,100	45,000	11,000	8	**51.8**	NA	**11.2**	NA	**35.6**
Iron	NLE	NLE	NLE	55,800	**20,300**	NA	**35,900**	NA	**34,000**
Lead	400	800	90	19.5	**37.4**	NA	**18**	NA	**48.7**
Magnesium	NLE	NLE	NLE	7,230	**2,160**	NA	**4,090**	NA	**2,650**
Manganese	11,000	5,900	65	90.7	**59.4**	NA	**68.7**	NA	**49.1**
Mercury	23	65	0.1	ND	**0.522**	NA	**0.282**	NA	**0.61**
Nickel	1,600	23,000	48	8.4	**8.55**	NA	**8.1**	NA	**15.4**
Potassium	NLE	NLE	NLE	15,400	**3,070**	NA	**9,380**	NA	**5,140**
Selenium	390	5,700	11	1.9	< 0.681	NA	**1.57**	NA	**1.31**
Silver	390	5,700	1	1.1	< 0.681	NA	< 0.727	NA	< 0.772
Sodium	NLE	NLE	NLE	51.6	**197**	NA	**150**	NA	**76.4**
Thallium	5	79	3	ND	< 0.681	NA	< 0.727	NA	< 0.772
Vanadium	78	1,100	NLE	94.1	**31.2**	NA	**51.6**	NA	**58.5**
Zinc	23,000	110,000	930	81.4	**122**	NA	**94.6**	NA	**187**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-14	FTMM02-B-140		FTMM02-B-141	
Sample ID					FTMM02-SS-B-14-2-2	FTMM02-SS-B-140-0-1.0	FTMM02-SS-B-140-2-2	FTMM02-SS-B-141-0-1.0	FTMM02-SS-B-141-2-2
Sample Date					2/23/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 670	NA	< 570	NA	< 680
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 340	NA	< 280	NA	< 340
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 670	NA	< 570	NA	< 680
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 670	NA	< 570	NA	< 680
Toluene	6,300,000	91,000,000	7,000	-	< 340	NA	< 280	NA	< 340
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	**130 J**	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	**150 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	**130 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	**120 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**210 J**	NA	**330 J**	NA
Chrysene	62,000	230,000	80,000	-	NA	**180 J**	NA	**280 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**230 JB**	NA	**810 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**160 J**	NA	**240 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	**110 J**	NA	**110 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	**150 J**	NA	**250 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**11,960**	NA	**59,700**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-14	FTMM02-B-140		FTMM02-B-141	
Sample ID					FTMM02-SS-B-14-2-2	FTMM02-SS-B-140-0-1.0	FTMM02-SS-B-140-2-2	FTMM02-SS-B-141-0-1.0	FTMM02-SS-B-141-2-2
Sample Date					2/23/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	< 0.013	NA	**0.101**	NA
4,4'-DDE	2	9	18	-	NA	**0.01**	NA	**0.061**	NA
4,4'-DDT	2	8	11	-	NA	< 0.0238	NA	**0.083**	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0108	NA	< 0.0114	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0108	NA	< 0.0114	NA
Endrin	23	340	1	-	NA	< 0.0108	NA	< 0.0114	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0087	NA	< 0.0091	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0108	NA	< 0.0114	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3465	NA	< 0.3653	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1386	NA	< 0.1461	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0866	NA	< 0.0913	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.078	NA	< 0.0822	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**4,170**	NA	**7,960**	NA
Antimony	31	450	6	ND	NA	< 0.416	NA	**0.681**	NA
Arsenic	19	19	19	22.9	NA	**5.02**	NA	**7.29**	NA
Barium	16,000	59,000	2,100	32.3	NA	**17.5**	NA	**44.6**	NA
Beryllium	16	140	0.7	2	NA	**0.399**	NA	**0.66**	NA
Cadmium	78	78	2	ND	NA	**0.382**	NA	**0.406**	NA
Calcium	NLE	NLE	NLE	921	NA	**6,300**	NA	**1,410**	NA
Chromium	NLE	NLE	NLE	269	NA	**41.7**	NA	**62.3**	NA
Cobalt	1,600	590	90	2.5	NA	**1.71**	NA	**2.17**	NA
Copper	3,100	45,000	11,000	8	NA	**14.7**	NA	**11.8**	NA
Iron	NLE	NLE	NLE	55,800	NA	**14,600**	NA	**18,800**	NA
Lead	400	800	90	19.5	NA	**30**	NA	**29.2**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**3,700**	NA	**2,020**	NA
Manganese	11,000	5,900	65	90.7	NA	**120**	NA	**90.7**	NA
Mercury	23	65	0.1	ND	NA	**0.207**	NA	**0.213**	NA
Nickel	1,600	23,000	48	8.4	NA	**5.56**	NA	**6.06**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**2,790**	NA	**4,070**	NA
Selenium	390	5,700	11	1.9	NA	**0.708**	NA	**1.01**	NA
Silver	390	5,700	1	1.1	NA	< 0.624	NA	< 0.681	NA
Sodium	NLE	NLE	NLE	51.6	NA	**334**	NA	**245**	NA
Thallium	5	79	3	ND	NA	< 0.624	NA	< 0.681	NA
Vanadium	78	1,100	NLE	94.1	NA	**22.6**	NA	**36.3**	NA
Zinc	23,000	110,000	930	81.4	NA	**56.5**	NA	**54.9**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-142		FTMM02-B-142A		FTMM02-B-143
Sample ID					FTMM02-SS-B-142-0-1.0	FTMM02-SS-B-142-2-2	FTMM02-SS-B-142A-0-1.0	FTMM02-SS-B-142A-2-2	FTMM02-SS-B-143-0-1.0
Sample Date					5/10/1999	5/10/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 540	NA	< 530	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	NA	< 270	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 540	NA	< 530	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	**3,200**	NA	< 530	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	NA	< 270	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**4,700**	NA	**4,900**	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1000	NA	< 930	NA	< 1100
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1000	NA	< 930	NA	< 1100
Acenaphthylene	NLE	300,000,000	NLE	-	< 1000	NA	< 930	NA	< 1100
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1000	NA	< 930	NA	< 1100
Azobenzene	NLE	NLE	NLE	-	< 1000	NA	< 930	NA	< 1100
Benzo(a)anthracene	600	2,000	800	-	< 1000	NA	< 930	NA	< 1100
Benzo(a)pyrene	200	200	200	-	< 1000	NA	< 930	NA	< 1100
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1000	NA	< 930	NA	< 1100
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1000	NA	< 930	NA	< 1100
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1000	NA	< 930	NA	< 1100
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1000	NA	< 930	NA	< 1100
Chrysene	62,000	230,000	80,000	-	< 1000	NA	< 930	NA	< 1100
Dibenz(a,h)anthracene	200	200	800	-	< 1000	NA	< 930	NA	< 1100
Dibenzofuran	NLE	NLE	NLE	-	< 1000	NA	< 930	NA	< 1100
Diethyl phthalate	49,000,000	550,000,000	88,000	-	**180 J**	NA	< 930	NA	< 1100
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**150 JB**	NA	**240 JB**	NA	**410 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1000	NA	< 930	NA	< 1100
Fluorene	2,300,000	24,000,000	170,000	-	< 1000	NA	< 930	NA	< 1100
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1000	NA	< 930	NA	< 1100
Naphthalene	6,000	17,000	25,000	-	< 1000	NA	< 930	NA	< 1100
Phenanthrene	NLE	300,000,000	NLE	-	< 1000	NA	< 930	NA	< 1100
Pyrene	1,700,000	18,000,000	840,000	-	< 1000	NA	< 930	NA	< 1100
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**8,650**	NA	**14,350**	NA	**44,350**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-142		FTMM02-B-142A		FTMM02-B-143
Sample ID					FTMM02-SS-B-142-0-1.0	FTMM02-SS-B-142-2-2	FTMM02-SS-B-142A-0-1.0	FTMM02-SS-B-142A-2-2	FTMM02-SS-B-143-0-1.0
Sample Date					5/10/1999	5/10/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	< 0.0125	NA	**1.75**	NA	**0.022**
4,4'-DDE	2	9	18	-	< 0.0083	NA	**3.705**	NA	**0.018**
4,4'-DDT	2	8	11	-	< 0.0229	NA	**6.811**	NA	< 0.0251
Alpha-Chlordane	NLE	1	NLE	-	< 0.0104	NA	< 0.0109	NA	< 0.0114
Dieldrin	0.04	0.2	0.003	-	< 0.0104	NA	< 0.0109	NA	< 0.0114
Endrin	23	340	1	-	< 0.0104	NA	< 0.0109	NA	< 0.0114
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0083	NA	< 0.0087	NA	< 0.0091
Gamma-Chlordane	0.2	1	NLE	-	< 0.0104	NA	< 0.0109	NA	< 0.0114
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3329	NA	< 0.3477	NA	< 0.3648
Aroclor-1248	0.2	1	NLE	-	< 0.1332	NA	< 0.1391	NA	< 0.1459
Aroclor-1254	0.2	1	NLE	-	< 0.0832	NA	< 0.0869	NA	< 0.0912
Aroclor-1260	0.2	1	NLE	-	< 0.0749	NA	< 0.0782	NA	< 0.0821
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**5,100**	NA	**6,510**	NA	**10,700**
Antimony	31	450	6	ND	< 0.396	NA	**0.939**	NA	**1.3**
Arsenic	19	19	19	22.9	**3.81**	NA	**7.77**	NA	**11.5**
Barium	16,000	59,000	2,100	32.3	**8.96**	NA	**13.2**	NA	**46.5**
Beryllium	16	140	0.7	2	**0.281**	NA	**0.751**	NA	**1.18**
Cadmium	78	78	2	ND	**0.252**	NA	**0.369**	NA	**0.616**
Calcium	NLE	NLE	NLE	921	**117**	NA	**384**	NA	**1,380**
Chromium	NLE	NLE	NLE	269	**32.1**	NA	**54.7**	NA	**107**
Cobalt	1,600	590	90	2.5	**1.32**	NA	**1.31**	NA	**1.43**
Copper	3,100	45,000	11,000	8	**3.93**	NA	**9.12**	NA	**43.2**
Iron	NLE	NLE	NLE	55,800	**13,600**	NA	**18,200**	NA	**34,700**
Lead	400	800	90	19.5	**4.95**	NA	**38.6**	NA	**39.1**
Magnesium	NLE	NLE	NLE	7,230	**696**	NA	**1,060**	NA	**3,520**
Manganese	11,000	5,900	65	90.7	**33.6**	NA	**11.9**	NA	**27.2**
Mercury	23	65	0.1	ND	**0.161**	NA	**0.605**	NA	**5.836**
Nickel	1,600	23,000	48	8.4	**3.28**	NA	**6.5**	NA	**6.33**
Potassium	NLE	NLE	NLE	15,400	**1,480**	NA	**2,160**	NA	**7,830**
Selenium	390	5,700	11	1.9	< 0.595	NA	**1.44**	NA	**1.75**
Silver	390	5,700	1	1.1	< 0.595	NA	< 0.67	NA	< 0.586
Sodium	NLE	NLE	NLE	51.6	**110**	NA	**96**	NA	**133**
Thallium	5	79	3	ND	< 0.595	NA	< 0.67	NA	< 0.586
Vanadium	78	1,100	NLE	94.1	**28.6**	NA	**51.5**	NA	**48.9**
Zinc	23,000	110,000	930	81.4	**15.6**	NA	**52.4**	NA	**55.2**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-143	FTMM02-B-144		FTMM02-B-145	
Sample ID					FTMM02-SS-B-143-2-2	FTMM02-SS-B-144-0-1.0	FTMM02-SS-B-144-2-2	FTMM02-SS-B-145-0-1.0	FTMM02-SS-B-145-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 550	NA	< 560	NA	< 600
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 270	NA	< 280	NA	< 300
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 550	NA	< 560	NA	< 600
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 550	NA	< 560	NA	< 600
Toluene	6,300,000	91,000,000	7,000	-	< 270	NA	< 280	NA	< 300
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	**4,400**	NA	**2,500**	NA	**1,900**
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1600	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1600	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1600	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	**3,400**	NA	< 1600	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1600	NA
Benzo(a)anthracene	600	2,000	800	-	NA	**190 J**	NA	**200 J**	NA
Benzo(a)pyrene	200	200	200	-	NA	**210 J**	NA	**210 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	**280 J**	NA	**280 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	< 1600	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	**270 J**	NA	**200 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	< 1100	NA	**160 J**	NA
Chrysene	62,000	230,000	80,000	-	NA	**1,100 J**	NA	**530 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1600	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1600	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1600	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**250 JB**	NA	**960 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**300 J**	NA	**260 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1600	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	< 1600	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1600	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	**150 J**	NA	< 1600	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	**250 J**	NA	**260 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**26,200**	NA	**51,060**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-143	FTMM02-B-144		FTMM02-B-145	
Sample ID					FTMM02-SS-B-143-2-2	FTMM02-SS-B-144-0-1.0	FTMM02-SS-B-144-2-2	FTMM02-SS-B-145-0-1.0	FTMM02-SS-B-145-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	**0.058**	NA	**0.055**	NA
4,4'-DDE	2	9	18	-	NA	**0.044**	NA	**0.06**	NA
4,4'-DDT	2	8	11	-	NA	**0.881**	NA	< 0.0362	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0121	NA	< 0.0164	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0121	NA	< 0.0164	NA
Endrin	23	340	1	-	NA	< 0.0121	NA	< 0.0164	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0097	NA	< 0.0131	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0121	NA	< 0.0164	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.0969	NA	< 0.1315	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.0387	NA	< 0.0526	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0242	NA	< 0.0329	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0218	NA	< 0.0296	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**6,430**	NA	**5,810**	NA
Antimony	31	450	6	ND	NA	**0.881**	NA	**1.51**	NA
Arsenic	19	19	19	22.9	NA	**15.1**	NA	**6.54**	NA
Barium	16,000	59,000	2,100	32.3	NA	**68.4**	NA	**33.6**	NA
Beryllium	16	140	0.7	2	NA	**1.02**	NA	**0.593**	NA
Cadmium	78	78	2	ND	NA	**0.723**	NA	**1.03**	NA
Calcium	NLE	NLE	NLE	921	NA	**2,580**	NA	**3,760**	NA
Chromium	NLE	NLE	NLE	269	NA	**81.8**	NA	**49.8**	NA
Cobalt	1,600	590	90	2.5	NA	**1.55**	NA	**2.17**	NA
Copper	3,100	45,000	11,000	8	NA	**9.73**	NA	**22.6**	NA
Iron	NLE	NLE	NLE	55,800	NA	**25,700**	NA	**18,000**	NA
Lead	400	800	90	19.5	NA	**21.2**	NA	**48.8**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**2,760**	NA	**1,870**	NA
Manganese	11,000	5,900	65	90.7	NA	**69.3**	NA	**85**	NA
Mercury	23	65	0.1	ND	NA	**0.731**	NA	**0.461**	NA
Nickel	1,600	23,000	48	8.4	NA	**6.8**	NA	**8.21**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**6,910**	NA	**3,720**	NA
Selenium	390	5,700	11	1.9	NA	**1.98**	NA	**1.38**	NA
Silver	390	5,700	1	1.1	NA	< 0.77	NA	< 1.006	NA
Sodium	NLE	NLE	NLE	51.6	NA	**164**	NA	**446**	NA
Thallium	5	79	3	ND	NA	< 0.77	NA	< 1.006	NA
Vanadium	78	1,100	NLE	94.1	NA	**25.3**	NA	**32**	NA
Zinc	23,000	110,000	930	81.4	NA	**67.6**	NA	**117**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-146		FTMM02-B-147		FTMM02-B-148
Sample ID					FTMM02-SS-B-146-0-1.0	FTMM02-SS-B-146-2-2	FTMM02-SS-B-147-0-1.0	FTMM02-SS-B-147-2-2	FTMM02-SS-B-148-0-1.0
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 560	NA	< 570	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 280	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 560	NA	< 570	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 560	NA	< 570	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 280	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,700**	NA	**3,200**	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 960	NA	< 1000	NA	< 930
Acenaphthene	3,400,000	37,000,000	110,000	-	< 960	NA	< 1000	NA	< 930
Acenaphthylene	NLE	300,000,000	NLE	-	< 960	NA	< 1000	NA	< 930
Anthracene	17,000,000	30,000,000	2,400,000	-	< 960	NA	< 1000	NA	< 930
Azobenzene	NLE	NLE	NLE	-	< 960	NA	< 1000	NA	< 930
Benzo(a)anthracene	600	2,000	800	-	**110 J**	NA	< 1000	NA	< 930
Benzo(a)pyrene	200	200	200	-	**110 J**	NA	< 1000	NA	< 930
Benzo(b)fluoranthene	600	2,000	2,000	-	**110 J**	NA	< 1000	NA	< 930
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 960	NA	< 1000	NA	< 930
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 960	NA	< 1000	NA	< 930
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 960	NA	< 1000	NA	< 930
Chrysene	62,000	230,000	80,000	-	**210 J**	NA	**170 J**	NA	< 930
Dibenz(a,h)anthracene	200	200	800	-	< 960	NA	< 1000	NA	< 930
Dibenzofuran	NLE	NLE	NLE	-	< 960	NA	< 1000	NA	< 930
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 960	NA	< 1000	NA	< 930
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**220 JB**	NA	**670 JB**	NA	**580 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**180 J**	NA	**120 J**	NA	< 930
Fluorene	2,300,000	24,000,000	170,000	-	< 960	NA	< 1000	NA	< 930
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 960	NA	< 1000	NA	< 930
Naphthalene	6,000	17,000	25,000	-	< 960	NA	< 1000	NA	< 930
Phenanthrene	NLE	300,000,000	NLE	-	< 960	NA	< 1000	NA	< 930
Pyrene	1,700,000	18,000,000	840,000	-	**170 J**	NA	**130 J**	NA	< 930
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**21,570**	NA	**17,420**	NA	**11,200**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-146		FTMM02-B-147		FTMM02-B-148
Sample ID					FTMM02-SS-B-146-0-1.0	FTMM02-SS-B-146-2-2	FTMM02-SS-B-147-0-1.0	FTMM02-SS-B-147-2-2	FTMM02-SS-B-148-0-1.0
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.041**	NA	**0.021**	NA	< 0.0124
4,4'-DDE	2	9	18	-	**0.052**	NA	**0.018**	NA	< 0.0083
4,4'-DDT	2	8	11	-	< 0.0251	NA	**0.264**	NA	< 0.0228
Alpha-Chlordane	NLE	1	NLE	-	**0.028**	NA	< 0.011	NA	< 0.0103
Dieldrin	0.04	0.2	0.003	-	< 0.0114	NA	< 0.011	NA	< 0.0103
Endrin	23	340	1	-	< 0.0114	NA	< 0.011	NA	< 0.0103
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0091	NA	< 0.0088	NA	< 0.0083
Gamma-Chlordane	0.2	1	NLE	-	**0.019**	NA	< 0.011	NA	< 0.0103
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3649	NA	< 0.3513	NA	< 0.3311
Aroclor-1248	0.2	1	NLE	-	< 0.146	NA	< 0.1405	NA	< 0.1325
Aroclor-1254	0.2	1	NLE	-	< 0.0912	NA	< 0.0878	NA	< 0.0828
Aroclor-1260	0.2	1	NLE	-	< 0.0821	NA	< 0.079	NA	< 0.0745
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**12,100**	NA	**9,420**	NA	**5,030**
Antimony	31	450	6	ND	**0.818**	NA	**0.752**	NA	**0.681**
Arsenic	19	19	19	22.9	**8.66**	NA	**6.38**	NA	**4.28**
Barium	16,000	59,000	2,100	32.3	**39.5**	NA	**30.4**	NA	**19.2**
Beryllium	16	140	0.7	2	**1.22**	NA	**0.9**	NA	**0.291**
Cadmium	78	78	2	ND	**0.675**	NA	**0.492**	NA	**0.735**
Calcium	NLE	NLE	NLE	921	**1,590**	NA	**874**	NA	**317**
Chromium	NLE	NLE	NLE	269	**113**	NA	**84.8**	NA	**32.3**
Cobalt	1,600	590	90	2.5	**1.84**	NA	**1.42**	NA	**1.1**
Copper	3,100	45,000	11,000	8	**23.1**	NA	**5.32**	NA	**6.29**
Iron	NLE	NLE	NLE	55,800	**35,600**	NA	**25,600**	NA	**13,400**
Lead	400	800	90	19.5	**22.6**	NA	**20.3**	NA	**7.38**
Magnesium	NLE	NLE	NLE	7,230	**4,190**	NA	**3,030**	NA	**766**
Manganese	11,000	5,900	65	90.7	**56.2**	NA	**31.9**	NA	**50.1**
Mercury	23	65	0.1	ND	**0.366**	NA	**0.345**	NA	**0.249**
Nickel	1,600	23,000	48	8.4	**6.74**	NA	**5.12**	NA	**3.03**
Potassium	NLE	NLE	NLE	15,400	**9,750**	NA	**7,180**	NA	**1,660**
Selenium	390	5,700	11	1.9	**1.04**	NA	**1.06**	NA	**1.05**
Silver	390	5,700	1	1.1	< 0.548	NA	< 0.663	NA	< 0.631
Sodium	NLE	NLE	NLE	51.6	**180**	NA	**156**	NA	**393**
Thallium	5	79	3	ND	< 0.548	NA	< 0.663	NA	< 0.631
Vanadium	78	1,100	NLE	94.1	**54.7**	NA	**43.5**	NA	**28.9**
Zinc	23,000	110,000	930	81.4	**107**	NA	**38.1**	NA	**25**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-148	FTMM02-B-149		FTMM02-B-15	
Sample ID					FTMM02-SS-B-148-2-2	FTMM02-SS-B-149-0-1.0	FTMM02-SS-B-149-2-2	FTMM02-SS-B-15-0-1.0	FTMM02-SS-B-15-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	2/23/1999	2/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 600	NA	< 710	NA	< 590
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 300	NA	< 350	NA	< 300
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 600	NA	< 710	NA	< 590
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 600	NA	< 710	NA	< 590
Toluene	6,300,000	91,000,000	7,000	-	< 300	NA	< 350	NA	< 300
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	**2,900**	NA	**4,200**	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 820	NA	< 1500	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 820	NA	< 1500	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 820	NA	< 1500	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 820	NA	< 1500	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 820	NA	< 1500	NA
Benzo(a)anthracene	600	2,000	800	-	NA	< 820	NA	< 1500	NA
Benzo(a)pyrene	200	200	200	-	NA	< 820	NA	< 1500	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 820	NA	< 1500	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 820	NA	< 1500	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 820	NA	< 1500	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	< 820	NA	**210 J**	NA
Chrysene	62,000	230,000	80,000	-	NA	< 820	NA	< 1500	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 820	NA	< 1500	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 820	NA	< 1500	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 820	NA	< 1500	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**520 JB**	NA	**430 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	< 820	NA	< 1500	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 820	NA	< 1500	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 820	NA	< 1500	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 820	NA	< 1500	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 820	NA	< 1500	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	< 820	NA	< 1500	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**7,470**	NA	ND	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-148	FTMM02-B-149		FTMM02-B-15	
Sample ID					FTMM02-SS-B-148-2-2	FTMM02-SS-B-149-0-1.0	FTMM02-SS-B-149-2-2	FTMM02-SS-B-15-0-1.0	FTMM02-SS-B-15-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	2/23/1999	2/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	< 0.0125	NA	**0.113**	NA
4,4'-DDE	2	9	18	-	NA	< 0.0083	NA	**0.072**	NA
4,4'-DDT	2	8	11	-	NA	< 0.0229	NA	< 0.0263	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0104	NA	< 0.012	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0104	NA	**0.03**	NA
Endrin	23	340	1	-	NA	< 0.0104	NA	< 0.012	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0083	NA	< 0.0096	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0104	NA	< 0.012	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3335	NA	< 0.3831	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1334	NA	< 0.1532	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0834	NA	< 0.0958	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.075	NA	< 0.0862	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**7,100**	NA	**17,400**	NA
Antimony	31	450	6	ND	NA	**3.21**	NA	**2.04**	NA
Arsenic	19	19	19	22.9	NA	**27.4**	NA	**22.5**	NA
Barium	16,000	59,000	2,100	32.3	NA	**453**	NA	**198**	NA
Beryllium	16	140	0.7	2	NA	**0.769**	NA	**2.67**	NA
Cadmium	78	78	2	ND	NA	**2.53**	NA	**4.17**	NA
Calcium	NLE	NLE	NLE	921	NA	**4,200**	NA	**1,830**	NA
Chromium	NLE	NLE	NLE	269	NA	**67.6**	NA	**182**	NA
Cobalt	1,600	590	90	2.5	NA	**3.28**	NA	**8.88**	NA
Copper	3,100	45,000	11,000	8	NA	**266**	NA	**391**	NA
Iron	NLE	NLE	NLE	55,800	NA	**20,300**	NA	**74,600**	NA
Lead	400	800	90	19.5	NA	**189**	NA	**187**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**1,900**	NA	**4,490**	NA
Manganese	11,000	5,900	65	90.7	NA	**4,680**	NA	**242**	NA
Mercury	23	65	0.1	ND	NA	**1.686**	NA	**4.73**	NA
Nickel	1,600	23,000	48	8.4	NA	**7.94**	NA	**32.8**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**2,240**	NA	**8,990**	NA
Selenium	390	5,700	11	1.9	NA	**1.82**	NA	**2.53**	NA
Silver	390	5,700	1	1.1	NA	**0.63**	NA	< 0.904	NA
Sodium	NLE	NLE	NLE	51.6	NA	**122**	NA	**164**	NA
Thallium	5	79	3	ND	NA	< 0.577	NA	< 0.904	NA
Vanadium	78	1,100	NLE	94.1	NA	**28.1**	NA	**91.5**	NA
Zinc	23,000	110,000	930	81.4	NA	**4,510**	NA	**605**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-150		FTMM02-B-151	
Sample ID					FTMM02-SS-B-150-0-1.0	FTMM02-SS-B-150-2-2	FTMM02-SS-B-151-0-1.0	FTMM02-SS-B-151-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 620	NA	< 760
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 310	NA	< 380
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 620	NA	< 760
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 620	NA	< 760
Toluene	6,300,000	91,000,000	7,000	-	NA	< 310	NA	< 380
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**3,600**	NA	**3,500**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1300	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1300	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1300	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	**170 J**	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1300	NA
Benzo(a)anthracene	600	2,000	800	-	**130 J**	NA	**360 J**	NA
Benzo(a)pyrene	200	200	200	-	**130 J**	NA	**330 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**140 J**	NA	**320 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1300	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**110 J**	NA	**310 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	**180 J**	NA
Chrysene	62,000	230,000	80,000	-	**260 J**	NA	**620 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1300	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1300	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1300	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**820 JB**	NA	**830 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**200 J**	NA	**840 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1300	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	**180 J**	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1300	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**650 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	**180 J**	NA	**610 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**19,120**	NA	**12,740**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential DCSRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-150		FTMM02-B-151	
Sample ID					FTMM02-SS-B-150-0-1.0	FTMM02-SS-B-150-2-2	FTMM02-SS-B-151-0-1.0	FTMM02-SS-B-151-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.135**	NA	**0.045**	NA
4,4'-DDE	2	9	18	-	**0.074**	NA	**0.039**	NA
4,4'-DDT	2	8	11	-	**0.141**	NA	**0.033**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0111	NA	**0.013**	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0111	NA	< 0.0117	NA
Endrin	23	340	1	-	< 0.0111	NA	< 0.0117	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0089	NA	< 0.0094	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0111	NA	**0.016**	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3556	NA	< 0.3752	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1423	NA	< 0.1501	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0889	NA	< 0.0938	NA
Aroclor-1260	0.2	1	NLE	-	< 0.08	NA	< 0.0844	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**12,400**	NA	**9,880**	NA
Antimony	31	450	6	ND	**1.13**	NA	**0.99**	NA
Arsenic	19	19	19	22.9	**9.48**	NA	**7.41**	NA
Barium	16,000	59,000	2,100	32.3	**51.7**	NA	**78.4**	NA
Beryllium	16	140	0.7	2	**1.23**	NA	**0.641**	NA
Cadmium	78	78	2	ND	**0.724**	NA	**1.15**	NA
Calcium	NLE	NLE	NLE	921	**769**	NA	**1,940**	NA
Chromium	NLE	NLE	NLE	269	**135**	NA	**65.5**	NA
Cobalt	1,600	590	90	2.5	**1.58**	NA	**1.94**	NA
Copper	3,100	45,000	11,000	8	**13.1**	NA	**14.8**	NA
Iron	NLE	NLE	NLE	55,800	**37,500**	NA	**19,500**	NA
Lead	400	800	90	19.5	**26.5**	NA	**61**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,660**	NA	**2,450**	NA
Manganese	11,000	5,900	65	90.7	**16.2**	NA	**82.6**	NA
Mercury	23	65	0.1	ND	**0.538**	NA	**1.396**	NA
Nickel	1,600	23,000	48	8.4	**7.28**	NA	**6.14**	NA
Potassium	NLE	NLE	NLE	15,400	**8,250**	NA	**3,750**	NA
Selenium	390	5,700	11	1.9	**1.5**	NA	**0.928**	NA
Silver	390	5,700	1	1.1	< 0.667	NA	< 0.707	NA
Sodium	NLE	NLE	NLE	51.6	**116**	NA	**218**	NA
Thallium	5	79	3	ND	< 0.667	NA	< 0.707	NA
Vanadium	78	1,100	NLE	94.1	**84.4**	NA	**38**	NA
Zinc	23,000	110,000	930	81.4	**57.2**	NA	**68.5**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-152		FTMM02-B-153	
Sample ID					FTMM02-SS-B-152-0-1.0	FTMM02-SS-B-152-2-2	FTMM02-SS-B-153-0-1.0	FTMM02-SS-B-153-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 600	NA	< 580
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 300	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 600	NA	< 580
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 600	NA	< 580
Toluene	6,300,000	91,000,000	7,000	-	NA	< 300	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,700**	NA	**4,200**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 970	NA	< 1400	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	**260 J**	NA	< 1400	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 970	NA	< 1400	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	**990**	NA	< 1400	NA
Azobenzene	NLE	NLE	NLE	-	< 970	NA	< 1400	NA
Benzo(a)anthracene	600	2,000	800	-	**2,400**	NA	< 1400	NA
Benzo(a)pyrene	200	200	200	-	**1,900**	NA	< 1400	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**1,900**	NA	< 1400	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**1,000**	NA	< 1400	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**1,300**	NA	< 1400	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 970	NA	< 1400	NA
Chrysene	62,000	230,000	80,000	-	**3,700**	NA	< 1400	NA
Dibenz(a,h)anthracene	200	200	800	-	**280 J**	NA	< 1400	NA
Dibenzofuran	NLE	NLE	NLE	-	**140 J**	NA	< 1400	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 970	NA	< 1400	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**650 JB**	NA	**900 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**6,200**	NA	**180 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	**310 J**	NA	< 1400	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	**1,100**	NA	< 1400	NA
Naphthalene	6,000	17,000	25,000	-	< 970	NA	< 1400	NA
Phenanthrene	NLE	300,000,000	NLE	-	**4,100**	NA	< 1400	NA
Pyrene	1,700,000	18,000,000	840,000	-	**4,400**	NA	**160 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**13,430**	NA	**21,300**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-152		FTMM02-B-153	
Sample ID					FTMM02-SS-B-152-0-1.0	FTMM02-SS-B-152-2-2	FTMM02-SS-B-153-0-1.0	FTMM02-SS-B-153-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.087**	NA	**0.153**	NA
4,4'-DDE	2	9	18	-	**0.049**	NA	**0.112**	NA
4,4'-DDT	2	8	11	-	**0.029**	NA	**0.044**	NA
Alpha-Chlordane	NLE	1	NLE	-	**0.018**	NA	**0.017**	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0117	NA	< 0.0132	NA
Endrin	23	340	1	-	< 0.0117	NA	< 0.0132	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0094	NA	< 0.0106	NA
Gamma-Chlordane	0.2	1	NLE	-	**0.025**	NA	**0.027**	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3747	NA	< 0.1059	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1499	NA	< 0.0424	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0937	NA	< 0.0265	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0843	NA	< 0.0238	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**9,750**	NA	**14,200**	NA
Antimony	31	450	6	ND	**0.875**	NA	**2.03**	NA
Arsenic	19	19	19	22.9	**6.16**	NA	**14.3**	NA
Barium	16,000	59,000	2,100	32.3	**35.7**	NA	**81.2**	NA
Beryllium	16	140	0.7	2	**0.671**	NA	**1.48**	NA
Cadmium	78	78	2	ND	**0.544**	NA	**1**	NA
Calcium	NLE	NLE	NLE	921	**1,920**	NA	**3,310**	NA
Chromium	NLE	NLE	NLE	269	**71.5**	NA	**153**	NA
Cobalt	1,600	590	90	2.5	**2.85**	NA	**3.1**	NA
Copper	3,100	45,000	11,000	8	**31.8**	NA	**32.3**	NA
Iron	NLE	NLE	NLE	55,800	**21,700**	NA	**42,500**	NA
Lead	400	800	90	19.5	**50.7**	NA	**190**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,600**	NA	**5,730**	NA
Manganese	11,000	5,900	65	90.7	**186**	NA	**177**	NA
Mercury	23	65	0.1	ND	**0.398**	NA	**0.371**	NA
Nickel	1,600	23,000	48	8.4	**7.49**	NA	**9.65**	NA
Potassium	NLE	NLE	NLE	15,400	**3,700**	NA	**12,400**	NA
Selenium	390	5,700	11	1.9	**1.32**	NA	**1.67**	NA
Silver	390	5,700	1	1.1	< 0.68	NA	< 0.753	NA
Sodium	NLE	NLE	NLE	51.6	**183**	NA	**381**	NA
Thallium	5	79	3	ND	< 0.68	NA	< 0.753	NA
Vanadium	78	1,100	NLE	94.1	**41.5**	NA	**52.4**	NA
Zinc	23,000	110,000	930	81.4	**88**	NA	**217**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-154		FTMM02-B-155	
Sample ID					FTMM02-SS-B-154-0-1.0	FTMM02-SS-B-154-2-2	FTMM02-SS-B-155-0-1.0	FTMM02-SS-B-155-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 560	NA	< 530
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 270
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 560	NA	< 530
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 560	NA	< 530
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 270
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**3,400**	NA	**5,000**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 950	NA	< 930	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 950	NA	< 930	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 950	NA	< 930	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 950	NA	< 930	NA
Azobenzene	NLE	NLE	NLE	-	< 950	NA	< 930	NA
Benzo(a)anthracene	600	2,000	800	-	**130 J**	NA	< 930	NA
Benzo(a)pyrene	200	200	200	-	**140 J**	NA	< 930	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**170 J**	NA	< 930	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 950	NA	< 930	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**120 J**	NA	< 930	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**350 J**	NA	< 930	NA
Chrysene	62,000	230,000	80,000	-	**280 J**	NA	< 930	NA
Dibenz(a,h)anthracene	200	200	800	-	< 950	NA	< 930	NA
Dibenzofuran	NLE	NLE	NLE	-	< 950	NA	< 930	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 950	NA	< 930	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**760 JB**	NA	**640 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**270 J**	NA	**120 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 950	NA	< 930	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 950	NA	< 930	NA
Naphthalene	6,000	17,000	25,000	-	< 950	NA	< 930	NA
Phenanthrene	NLE	300,000,000	NLE	-	**170 J**	NA	< 930	NA
Pyrene	1,700,000	18,000,000	840,000	-	**290 J**	NA	**130 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**1,700**	NA	**29,880**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-154		FTMM02-B-155	
Sample ID					FTMM02-SS-B-154-0-1.0	FTMM02-SS-B-154-2-2	FTMM02-SS-B-155-0-1.0	FTMM02-SS-B-155-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.13**	NA	**0.076**	NA
4,4'-DDE	2	9	18	-	**0.047**	NA	< 0.0086	NA
4,4'-DDT	2	8	11	-	**0.033**	NA	< 0.0236	NA
Alpha-Chlordane	NLE	1	NLE	-	**0.016**	NA	< 0.0107	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0111	NA	< 0.0107	NA
Endrin	23	340	1	-	< 0.0111	NA	< 0.0107	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0089	NA	< 0.0086	NA
Gamma-Chlordane	0.2	1	NLE	-	**0.017**	NA	< 0.0107	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3561	NA	< 0.0172	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1424	NA	< 0.0069	NA
Aroclor-1254	0.2	1	NLE	-	< 0.089	NA	**1.672**	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0801	NA	< 0.0039	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**6,460**	NA	**10,200**	NA
Antimony	31	450	6	ND	**0.851**	NA	**2.57**	NA
Arsenic	19	19	19	22.9	**6.04**	NA	**67.1**	NA
Barium	16,000	59,000	2,100	32.3	**26.5**	NA	**501**	NA
Beryllium	16	140	0.7	2	**0.587**	NA	**1.34**	NA
Cadmium	78	78	2	ND	**0.882**	NA	**1.29**	NA
Calcium	NLE	NLE	NLE	921	**1,980**	NA	**3,390**	NA
Chromium	NLE	NLE	NLE	269	**53.1**	NA	**81.9**	NA
Cobalt	1,600	590	90	2.5	**1.83**	NA	**4.46**	NA
Copper	3,100	45,000	11,000	8	**14.8**	NA	**87.8**	NA
Iron	NLE	NLE	NLE	55,800	**18,800**	NA	**32,800**	NA
Lead	400	800	90	19.5	**30.8**	NA	**88.2**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,370**	NA	**3,760**	NA
Manganese	11,000	5,900	65	90.7	**62.4**	NA	**1,080**	NA
Mercury	23	65	0.1	ND	**0.8**	NA	**0.756**	NA
Nickel	1,600	23,000	48	8.4	**6.3**	NA	**11.4**	NA
Potassium	NLE	NLE	NLE	15,400	**4,200**	NA	**5,070**	NA
Selenium	390	5,700	11	1.9	**0.698**	NA	**1.9**	NA
Silver	390	5,700	1	1.1	< 0.618	NA	< 0.608	NA
Sodium	NLE	NLE	NLE	51.6	**692**	NA	**447**	NA
Thallium	5	79	3	ND	< 0.618	NA	< 0.608	NA
Vanadium	78	1,100	NLE	94.1	**30.5**	NA	**42.7**	NA
Zinc	23,000	110,000	930	81.4	**68.7**	NA	**532**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-156		FTMM02-B-157	
Sample ID					FTMM02-SS-B-156-0-1.0	FTMM02-SS-B-156-2-2	FTMM02-SS-B-157-0-1.0	FTMM02-SS-B-157-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 580	NA	< 600
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 290	NA	< 300
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 580	NA	< 600
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 580	NA	< 600
Toluene	6,300,000	91,000,000	7,000	-	NA	< 290	NA	< 300
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**4,300**	NA	**4,900**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 970	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 970	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 970	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 970	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 970	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 970	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	**99 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 970	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 970	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 970	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 970	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	**170 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 970	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 970	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 970	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	< 1100	NA	**1,000 B**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	**150 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 970	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 970	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 970	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 970	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	**130 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**14,910**	NA	**16,330**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-156		FTMM02-B-157	
Sample ID					FTMM02-SS-B-156-0-1.0	FTMM02-SS-B-156-2-2	FTMM02-SS-B-157-0-1.0	FTMM02-SS-B-157-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**1.163**	NA	**0.675**	NA
4,4'-DDE	2	9	18	-	**0.336**	NA	**0.257**	NA
4,4'-DDT	2	8	11	-	**1.163**	NA	**0.741**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0115	NA	< 0.011	NA
Dieldrin	0.04	0.2	0.003	-	**0.068**	NA	< 0.011	NA
Endrin	23	340	1	-	< 0.0115	NA	< 0.011	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0092	NA	< 0.0088	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0115	NA	< 0.011	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3686	NA	< 0.3521	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1474	NA	< 0.1409	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0921	NA	< 0.088	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0829	NA	< 0.0792	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**15,000**	NA	**12,100**	NA
Antimony	31	450	6	ND	**0.863**	NA	**1.54**	NA
Arsenic	19	19	19	22.9	**15.1**	NA	**9.62**	NA
Barium	16,000	59,000	2,100	32.3	**20.8**	NA	**33.6**	NA
Beryllium	16	140	0.7	2	**2**	NA	**1.18**	NA
Cadmium	78	78	2	ND	**1.52**	NA	**0.472**	NA
Calcium	NLE	NLE	NLE	921	**501**	NA	**1,050**	NA
Chromium	NLE	NLE	NLE	269	**153**	NA	**90.8**	NA
Cobalt	1,600	590	90	2.5	**2.88**	NA	**2.86**	NA
Copper	3,100	45,000	11,000	8	**5.62**	NA	**41.7**	NA
Iron	NLE	NLE	NLE	55,800	**57,100**	NA	**31,600**	NA
Lead	400	800	90	19.5	**11.2**	NA	**39**	NA
Magnesium	NLE	NLE	NLE	7,230	**6,300**	NA	**3,590**	NA
Manganese	11,000	5,900	65	90.7	**44.2**	NA	**37**	NA
Mercury	23	65	0.1	ND	**0.46**	NA	**1.214**	NA
Nickel	1,600	23,000	48	8.4	**10.4**	NA	**9.45**	NA
Potassium	NLE	NLE	NLE	15,400	**16,900**	NA	**6,990**	NA
Selenium	390	5,700	11	1.9	**2.06**	NA	**1.82**	NA
Silver	390	5,700	1	1.1	< 0.673	NA	< 0.638	NA
Sodium	NLE	NLE	NLE	51.6	**115**	NA	**130**	NA
Thallium	5	79	3	ND	< 0.673	NA	< 0.638	NA
Vanadium	78	1,100	NLE	94.1	**39.4**	NA	**52.7**	NA
Zinc	23,000	110,000	930	81.4	**72.9**	NA	**63.3**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-158		FTMM02-B-159	
Sample ID					FTMM02-SS-B-158-0-1.0	FTMM02-SS-B-158-2-2	FTMM02-SS-B-159-0-1.0	FTMM02-SS-B-159-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 630	NA	< 780
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 320	NA	< 390
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 630	NA	< 780
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 630	NA	< 780
Toluene	6,300,000	91,000,000	7,000	-	NA	< 320	NA	< 390
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1400	NA	< 1300	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1400	NA	< 1300	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1400	NA	< 1300	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	**310 J**	NA	< 1300	NA
Azobenzene	NLE	NLE	NLE	-	< 1400	NA	< 1300	NA
Benzo(a)anthracene	600	2,000	800	-	**980 J**	NA	**330 J**	NA
Benzo(a)pyrene	200	200	200	-	**840 J**	NA	**310 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**850 J**	NA	**310 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**460 J**	NA	< 1300	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**630 J**	NA	**240 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**200 J**	NA	**130 J**	NA
Chrysene	62,000	230,000	80,000	-	**1,400**	NA	**550 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1400	NA	< 1300	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1400	NA	< 1300	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1400	NA	< 1300	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**210 JB**	NA	**150 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**2,600**	NA	**670 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1400	NA	< 1300	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	**500 J**	NA	< 1300	NA
Naphthalene	6,000	17,000	25,000	-	< 1400	NA	< 1300	NA
Phenanthrene	NLE	300,000,000	NLE	-	**1,200 J**	NA	**280 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	**1,800**	NA	**510 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**32,250**	NA	**31,230**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-158		FTMM02-B-159	
Sample ID					FTMM02-SS-B-158-0-1.0	FTMM02-SS-B-158-2-2	FTMM02-SS-B-159-0-1.0	FTMM02-SS-B-159-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.027**	NA	**0.029**	NA
4,4'-DDE	2	9	18	-	**0.086**	NA	**0.051**	NA
4,4'-DDT	2	8	11	-	**0.085**	NA	< 0.028	NA
Alpha-Chlordane	NLE	1	NLE	-	**0.017**	NA	**0.015**	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0136	NA	< 0.0127	NA
Endrin	23	340	1	-	< 0.0136	NA	< 0.0127	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0109	NA	< 0.0102	NA
Gamma-Chlordane	0.2	1	NLE	-	**0.015**	NA	**0.013**	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.109	NA	< 0.1019	NA
Aroclor-1248	0.2	1	NLE	-	< 0.436	NA	< 0.0408	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0272	NA	< 0.0255	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0245	NA	< 0.0229	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**8,310**	NA	**6,430**	NA
Antimony	31	450	6	ND	< 0.569	NA	< 0.554	NA
Arsenic	19	19	19	22.9	**9.26**	NA	**6.63**	NA
Barium	16,000	59,000	2,100	32.3	**56.5**	NA	**38.8**	NA
Beryllium	16	140	0.7	2	**0.758**	NA	**0.663**	NA
Cadmium	78	78	2	ND	**0.831**	NA	**0.477**	NA
Calcium	NLE	NLE	NLE	921	**4,000**	NA	**3,630**	NA
Chromium	NLE	NLE	NLE	269	**69.2**	NA	**46.2**	NA
Cobalt	1,600	590	90	2.5	**2.87**	NA	**3.61**	NA
Copper	3,100	45,000	11,000	8	**26.6**	NA	**40.4**	NA
Iron	NLE	NLE	NLE	55,800	**21,700**	NA	**16,400**	NA
Lead	400	800	90	19.5	**81.8**	NA	**93.5**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,350**	NA	**1,660**	NA
Manganese	11,000	5,900	65	90.7	**133**	NA	**81.6**	NA
Mercury	23	65	0.1	ND	**0.059**	NA	**0.147**	NA
Nickel	1,600	23,000	48	8.4	**11.4**	NA	**14.8**	NA
Potassium	NLE	NLE	NLE	15,400	**4,760**	NA	**2,670**	NA
Selenium	390	5,700	11	1.9	**1.19**	NA	**1.18**	NA
Silver	390	5,700	1	1.1	< 0.854	NA	< 0.832	NA
Sodium	NLE	NLE	NLE	51.6	**206**	NA	**139**	NA
Thallium	5	79	3	ND	< 0.854	NA	< 0.832	NA
Vanadium	78	1,100	NLE	94.1	**30.8**	NA	**22.9**	NA
Zinc	23,000	110,000	930	81.4	**161**	NA	**202**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-160		FTMM02-B-161	
Sample ID					FTMM02-SS-B-160-0-1.0	FTMM02-SS-B-160-2-2	FTMM02-SS-B-161-0-1.0	FTMM02-SS-B-161-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 590	NA	< 600
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 290	NA	< 300
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 590	NA	< 600
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 590	NA	< 600
Toluene	6,300,000	91,000,000	7,000	-	NA	< 290	NA	< 300
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	**190 J**	NA	**370 J**	NA
Benzo(a)pyrene	200	200	200	-	**170 J**	NA	**550 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**160 J**	NA	**490 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	**290 J**	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**130 J**	NA	**400 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**120 J**	NA	**120 J**	NA
Chrysene	62,000	230,000	80,000	-	**320 J**	NA	**780 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**450 JB**	NA	**560 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**390 J**	NA	**620 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	**290 J**	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	**210 J**	NA	**390 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	**340 J**	NA	**580 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**15,640**	NA	**6,620**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-160		FTMM02-B-161	
Sample ID					FTMM02-SS-B-160-0-1.0	FTMM02-SS-B-160-2-2	FTMM02-SS-B-161-0-1.0	FTMM02-SS-B-161-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.028**	NA	**0.047**	NA
4,4'-DDE	2	9	18	-	**0.023**	NA	**0.032**	NA
4,4'-DDT	2	8	11	-	< 0.0244	NA	< 0.0242	NA
Alpha-Chlordane	NLE	1	NLE	-	**0.011**	NA	**0.013**	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0111	NA	< 0.011	NA
Endrin	23	340	1	-	< 0.0111	NA	< 0.011	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0089	NA	< 0.0088	NA
Gamma-Chlordane	0.2	1	NLE	-	**0.015**	NA	**0.015**	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3542	NA	< 0.3527	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1417	NA	< 0.1411	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0886	NA	< 0.0882	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0797	NA	< 0.0793	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**4,760**	NA	**5,590**	NA
Antimony	31	450	6	ND	< 0.362	NA	**0.612**	NA
Arsenic	19	19	19	22.9	**4.64**	NA	**4.64**	NA
Barium	16,000	59,000	2,100	32.3	**23.3**	NA	**49.5**	NA
Beryllium	16	140	0.7	2	**0.343**	NA	**0.368**	NA
Cadmium	78	78	2	ND	**0.352**	NA	**0.465**	NA
Calcium	NLE	NLE	NLE	921	**1,120**	NA	**1,170**	NA
Chromium	NLE	NLE	NLE	269	**26.9**	NA	**27.6**	NA
Cobalt	1,600	590	90	2.5	**1.65**	NA	**1.54**	NA
Copper	3,100	45,000	11,000	8	**16.6**	NA	**17.2**	NA
Iron	NLE	NLE	NLE	55,800	**11,800**	NA	**11,500**	NA
Lead	400	800	90	19.5	**37.5**	NA	**58.8**	NA
Magnesium	NLE	NLE	NLE	7,230	**950**	NA	**979**	NA
Manganese	11,000	5,900	65	90.7	**61**	NA	**63.9**	NA
Mercury	23	65	0.1	ND	**0.16**	NA	**0.193**	NA
Nickel	1,600	23,000	48	8.4	**4.98**	NA	**5.23**	NA
Potassium	NLE	NLE	NLE	15,400	**1,270**	NA	**1,350**	NA
Selenium	390	5,700	11	1.9	**0.665**	NA	**0.869**	NA
Silver	390	5,700	1	1.1	< 0.544	NA	< 0.64	NA
Sodium	NLE	NLE	NLE	51.6	**94.5**	NA	**125**	NA
Thallium	5	79	3	ND	< 0.544	NA	< 0.64	NA
Vanadium	78	1,100	NLE	94.1	**19.6**	NA	**20.7**	NA
Zinc	23,000	110,000	930	81.4	**61.6**	NA	**114**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-162		FTMM02-B-163	
Sample ID					FTMM02-SS-B-162-0-1.0	FTMM02-SS-B-162-2-2	FTMM02-SS-B-163-0-1.0	FTMM02-SS-B-163-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 580	NA	< 590
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 290	NA	< 300
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 580	NA	< 590
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 580	NA	< 590
Toluene	6,300,000	91,000,000	7,000	-	NA	< 290	NA	< 300
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	**200 J**	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	**200 J**	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**200 J**	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**160 J**	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**150 J**	NA	**150 J**	NA
Chrysene	62,000	230,000	80,000	-	**360 J**	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**590 JB**	NA	**810 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**400 J**	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	**250 J**	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	**420 J**	NA	< 1100	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**33,180**	NA	**19,570**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-162		FTMM02-B-163	
Sample ID					FTMM02-SS-B-162-0-1.0	FTMM02-SS-B-162-2-2	FTMM02-SS-B-163-0-1.0	FTMM02-SS-B-163-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.043**	NA	**0.015**	NA
4,4'-DDE	2	9	18	-	< 0.0087	NA	< 0.0086	NA
4,4'-DDT	2	8	11	-	< 0.0238	NA	< 0.0235	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0108	NA	< 0.0107	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0108	NA	< 0.0107	NA
Endrin	23	340	1	-	< 0.0108	NA	< 0.0107	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0087	NA	< 0.0086	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0108	NA	< 0.0107	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.173	NA	< 0.3425	NA
Aroclor-1248	0.2	1	NLE	-	< 0.0069	NA	< 0.137	NA
Aroclor-1254	0.2	1	NLE	-	**1.929**	NA	< 0.0856	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0039	NA	< 0.0771	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**9,010**	NA	**12,000**	NA
Antimony	31	450	6	ND	**1.06**	NA	**0.553**	NA
Arsenic	19	19	19	22.9	**6.92**	NA	**10.6**	NA
Barium	16,000	59,000	2,100	32.3	**31.3**	NA	**39.4**	NA
Beryllium	16	140	0.7	2	**0.696**	NA	**0.918**	NA
Cadmium	78	78	2	ND	**0.666**	NA	**0.478**	NA
Calcium	NLE	NLE	NLE	921	**1,650**	NA	**1,610**	NA
Chromium	NLE	NLE	NLE	269	**68**	NA	**63.4**	NA
Cobalt	1,600	590	90	2.5	**2.4**	NA	**3.31**	NA
Copper	3,100	45,000	11,000	8	**70.2**	NA	**6.94**	NA
Iron	NLE	NLE	NLE	55,800	**22,700**	NA	**28,500**	NA
Lead	400	800	90	19.5	**40.6**	NA	**20.8**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,260**	NA	**2,600**	NA
Manganese	11,000	5,900	65	90.7	**78.6**	NA	**87.9**	NA
Mercury	23	65	0.1	ND	**0.255**	NA	**0.285**	NA
Nickel	1,600	23,000	48	8.4	**7.37**	NA	**9.39**	NA
Potassium	NLE	NLE	NLE	15,400	**4,300**	NA	**5,840**	NA
Selenium	390	5,700	11	1.9	**1.26**	NA	**0.915**	NA
Silver	390	5,700	1	1.1	< 0.651	NA	< 0.647	NA
Sodium	NLE	NLE	NLE	51.6	**571**	NA	**191**	NA
Thallium	5	79	3	ND	< 0.651	NA	< 0.647	NA
Vanadium	78	1,100	NLE	94.1	**50**	NA	**45.4**	NA
Zinc	23,000	110,000	930	81.4	**182**	NA	**90.1**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-164		FTMM02-B-165	
Sample ID					FTMM02-SS-B-164-0-1.0	FTMM02-SS-B-164-2-2	FTMM02-SS-B-165-0-1.0	FTMM02-SS-B-165-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 530	NA	< 590
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 530	NA	< 590
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 530	NA	< 590
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**2,700**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1200	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1200	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1200	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA
Benzo(a)anthracene	600	2,000	800	-	**190 J**	NA	< 1200	NA
Benzo(a)pyrene	200	200	200	-	**190 J**	NA	< 1200	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**190 J**	NA	< 1200	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**150 J**	NA	< 1200	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**160 J**	NA	< 1200	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**120 J**	NA	< 1200	NA
Chrysene	62,000	230,000	80,000	-	**390 J**	NA	< 1200	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1200	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1200	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**600 JB**	NA	**580 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**250 J**	NA	< 1200	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1200	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	**130 J**	NA	< 1200	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1200	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA
Pyrene	1,700,000	18,000,000	840,000	-	**260 J**	NA	< 1200	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**27,290**	NA	**31,050**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-164		FTMM02-B-165	
Sample ID					FTMM02-SS-B-164-0-1.0	FTMM02-SS-B-164-2-2	FTMM02-SS-B-165-0-1.0	FTMM02-SS-B-165-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.048**	NA	**0.105**	NA
4,4'-DDE	2	9	18	-	**0.042**	NA	< 0.0092	NA
4,4'-DDT	2	8	11	-	**0.037**	NA	**0.056**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0111	NA	< 0.0115	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0111	NA	< 0.0115	NA
Endrin	23	340	1	-	< 0.0111	NA	< 0.0115	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0089	NA	< 0.0092	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0111	NA	< 0.0115	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3547	NA	< 0.0183	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1419	NA	**3.082**	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0887	NA	< 0.0046	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0798	NA	< 0.0041	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**14,000**	NA	**9,650**	NA
Antimony	31	450	6	ND	**1.17**	NA	**8.45**	NA
Arsenic	19	19	19	22.9	**11.2**	NA	**9.32**	NA
Barium	16,000	59,000	2,100	32.3	**51.5**	NA	**39.1**	NA
Beryllium	16	140	0.7	2	**1.22**	NA	**1.01**	NA
Cadmium	78	78	2	ND	**0.922**	NA	**1.24**	NA
Calcium	NLE	NLE	NLE	921	**908**	NA	**1,440**	NA
Chromium	NLE	NLE	NLE	269	**122**	NA	**87.5**	NA
Cobalt	1,600	590	90	2.5	**2.12**	NA	**5.22**	NA
Copper	3,100	45,000	11,000	8	**49.6**	NA	**90**	NA
Iron	NLE	NLE	NLE	55,800	**33,500**	NA	**27,500**	NA
Lead	400	800	90	19.5	**39.1**	NA	**63.3**	NA
Magnesium	NLE	NLE	NLE	7,230	**4,090**	NA	**2,900**	NA
Manganese	11,000	5,900	65	90.7	**45.5**	NA	**180**	NA
Mercury	23	65	0.1	ND	**4.75**	NA	**3.85**	NA
Nickel	1,600	23,000	48	8.4	**8.24**	NA	**9.52**	NA
Potassium	NLE	NLE	NLE	15,400	**9,380**	NA	**6,530**	NA
Selenium	390	5,700	11	1.9	**1.5**	NA	**1.24**	NA
Silver	390	5,700	1	1.1	< 0.685	NA	**1.11**	NA
Sodium	NLE	NLE	NLE	51.6	**183**	NA	**126**	NA
Thallium	5	79	3	ND	< 0.685	NA	< 0.528	NA
Vanadium	78	1,100	NLE	94.1	**63.8**	NA	**48.2**	NA
Zinc	23,000	110,000	930	81.4	**175**	NA	**444**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-166			
Sample ID					FTMM02-SS-B-166-0-1.0	FTMM02-SS-B-166-0-1.0-Dup	FTMM02-SS-B-166-2-2	FTMM02-SS-B-166-2-2-Dup
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	< 580	< 570
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	< 290	< 280
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	< 580	< 570
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	< 580	< 570
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	< 290	< 280
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	**4,500**	**4,400**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1300	< 1400	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1300	< 1400	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1300	< 1400	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1300	< 1400	NA	NA
Azobenzene	NLE	NLE	NLE	-	< 1300	< 1400	NA	NA
Benzo(a)anthracene	600	2,000	800	-	**180 J**	**270 J**	NA	NA
Benzo(a)pyrene	200	200	200	-	< 1300	**230 J**	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**200 J**	**250 J**	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1300	< 1400	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**170 J**	**170 J**	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**190 J**	< 1400	NA	NA
Chrysene	62,000	230,000	80,000	-	**330 J**	**460 J**	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1300	< 1400	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1300	< 1400	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1300	< 1400	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**680 JB**	< 1400	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**340 J**	**530 J**	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1300	< 1400	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1300	< 1400	NA	NA
Naphthalene	6,000	17,000	25,000	-	< 1300	< 1400	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	**130 J**	**210 J**	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	**300 J**	**450 J**	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**26,610**	**20,470**	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-166			
Sample ID					FTMM02-SS-B-166-0-1.0	FTMM02-SS-B-166-0-1.0-Dup	FTMM02-SS-B-166-2-2	FTMM02-SS-B-166-2-2-Dup
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.037**	**0.032**	NA	NA
4,4'-DDE	2	9	18	-	**0.079**	**0.058**	NA	NA
4,4'-DDT	2	8	11	-	**0.036**	< 0.0303	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	**0.017**	< 0.0138	NA	NA
Dieldrin	0.04	0.2	0.003	-	**0.028**	< 0.0138	NA	NA
Endrin	23	340	1	-	< 0.0129	< 0.0138	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0103	< 0.011	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0129	< 0.0138	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.1028	< 0.1101	NA	NA
Aroclor-1248	0.2	1	NLE	-	< 0.0411	< 0.044	NA	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0257	< 0.0275	NA	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0231	< 0.0248	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**11,800**	**12,600**	NA	NA
Antimony	31	450	6	ND	**1.57**	**1.28**	NA	NA
Arsenic	19	19	19	22.9	**13.9**	**10.4**	NA	NA
Barium	16,000	59,000	2,100	32.3	**57**	**53.9**	NA	NA
Beryllium	16	140	0.7	2	**1.12**	**1.03**	NA	NA
Cadmium	78	78	2	ND	**1.11**	**0.978**	NA	NA
Calcium	NLE	NLE	NLE	921	**3,300**	**3,080**	NA	NA
Chromium	NLE	NLE	NLE	269	**120**	**112**	NA	NA
Cobalt	1,600	590	90	2.5	**3.41**	**3.53**	NA	NA
Copper	3,100	45,000	11,000	8	**26.3**	**30**	NA	NA
Iron	NLE	NLE	NLE	55,800	**29,200**	**27,200**	NA	NA
Lead	400	800	90	19.5	**170**	**71.1**	NA	NA
Magnesium	NLE	NLE	NLE	7,230	**3,420**	**3,210**	NA	NA
Manganese	11,000	5,900	65	90.7	**141**	**122**	NA	NA
Mercury	23	65	0.1	ND	**1.2**	**1.01**	NA	NA
Nickel	1,600	23,000	48	8.4	**13.7**	**14.8**	NA	NA
Potassium	NLE	NLE	NLE	15,400	**7,030**	**6,660**	NA	NA
Selenium	390	5,700	11	1.9	**1.32**	**1.48**	NA	NA
Silver	390	5,700	1	1.1	**2.65**	**2.55**	NA	NA
Sodium	NLE	NLE	NLE	51.6	**187**	**183**	NA	NA
Thallium	5	79	3	ND	< 0.786	< 0.81	NA	NA
Vanadium	78	1,100	NLE	94.1	**48.7**	**50.4**	NA	NA
Zinc	23,000	110,000	930	81.4	**129**	**154**	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-167		FTMM02-B-168	FTMM02-B-168
Sample ID					FTMM02-SS-B-167-0-1.0	FTMM02-SS-B-167-2-2	FTMM02-SS-B-168-0-1.0	FTMM02-SS-B-168-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 560	NA	< 560
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 280
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 560	NA	< 560
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 560	NA	< 560
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 280
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**5,100**	NA	**4,300**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**350 JB**	NA	**300 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**170 J**	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	**170 J**	NA	< 1100	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**21,620**	NA	**15,880**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-167		FTMM02-B-168	FTMM02-B-168
Sample ID					FTMM02-SS-B-167-0-1.0	FTMM02-SS-B-167-2-2	FTMM02-SS-B-168-0-1.0	FTMM02-SS-B-168-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.031**	NA	**0.037**	NA
4,4'-DDE	2	9	18	-	**0.019**	NA	**0.018**	NA
4,4'-DDT	2	8	11	-	< 0.0246	NA	**0.285**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0112	NA	< 0.0108	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0112	NA	< 0.0108	NA
Endrin	23	340	1	-	< 0.0112	NA	< 0.0108	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.009	NA	< 0.0087	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0112	NA	< 0.0108	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3581	NA	< 0.3461	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1432	NA	< 0.1384	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0895	NA	< 0.0865	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0806	NA	< 0.0779	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**12,000**	NA	**12,400**	NA
Antimony	31	450	6	ND	**0.82**	NA	**0.579**	NA
Arsenic	19	19	19	22.9	**9.03**	NA	**6.78**	NA
Barium	16,000	59,000	2,100	32.3	**39.4**	NA	**41.1**	NA
Beryllium	16	140	0.7	2	**0.957**	NA	**0.654**	NA
Cadmium	78	78	2	ND	**0.568**	NA	**0.411**	NA
Calcium	NLE	NLE	NLE	921	**1,520**	NA	**1,390**	NA
Chromium	NLE	NLE	NLE	269	**64.5**	NA	**44.8**	NA
Cobalt	1,600	590	90	2.5	**3.7**	NA	**2.52**	NA
Copper	3,100	45,000	11,000	8	**16.7**	NA	**11.9**	NA
Iron	NLE	NLE	NLE	55,800	**27,100**	NA	**19,800**	NA
Lead	400	800	90	19.5	**28.2**	NA	**51.5**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,560**	NA	**1,950**	NA
Manganese	11,000	5,900	65	90.7	**87**	NA	**114**	NA
Mercury	23	65	0.1	ND	**2.628**	NA	**0.512**	NA
Nickel	1,600	23,000	48	8.4	**8.92**	NA	**6.55**	NA
Potassium	NLE	NLE	NLE	15,400	**5,720**	NA	**3,740**	NA
Selenium	390	5,700	11	1.9	**1.29**	NA	< 0.564	NA
Silver	390	5,700	1	1.1	< 0.688	NA	< 0.564	NA
Sodium	NLE	NLE	NLE	51.6	**128**	NA	**205**	NA
Thallium	5	79	3	ND	< 0.688	NA	< 0.564	NA
Vanadium	78	1,100	NLE	94.1	**44.7**	NA	**38.5**	NA
Zinc	23,000	110,000	930	81.4	**105**	NA	**56.4**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-169		FTMM02-B-170	
Sample ID					FTMM02-SS-B-169-0-1.0	FTMM02-SS-B-169-2-2	FTMM02-SS-B-170-0-1.0	FTMM02-SS-B-170-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 660	NA	< 490
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 330	NA	< 240
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 660	NA	< 490
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 660	NA	< 490
Toluene	6,300,000	91,000,000	7,000	-	NA	< 330	NA	< 240
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**4,100**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**110 J**	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**700 JB**	NA	< 1100	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	< 1100	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**34,100**	NA	**23,720**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-169		FTMM02-B-170	
Sample ID					FTMM02-SS-B-169-0-1.0	FTMM02-SS-B-169-2-2	FTMM02-SS-B-170-0-1.0	FTMM02-SS-B-170-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.017**	NA	< 0.0134	NA
4,4'-DDE	2	9	18	-	< 0.0085	NA	< 0.0089	NA
4,4'-DDT	2	8	11	-	< 0.0234	NA	< 0.0245	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0106	NA	< 0.0112	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0106	NA	< 0.0112	NA
Endrin	23	340	1	-	< 0.0106	NA	< 0.0112	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0085	NA	< 0.0089	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0106	NA	< 0.0112	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3399	NA	< 0.3569	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1359	NA	< 0.1428	NA
Aroclor-1254	0.2	1	NLE	-	< 0.085	NA	< 0.0892	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0765	NA	< 0.0803	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**10,100**	NA	**7,490**	NA
Antimony	31	450	6	ND	< 0.427	NA	< 0.434	NA
Arsenic	19	19	19	22.9	**6**	NA	**5.39**	NA
Barium	16,000	59,000	2,100	32.3	**33.5**	NA	**23.9**	NA
Beryllium	16	140	0.7	2	**0.605**	NA	**0.441**	NA
Cadmium	78	78	2	ND	**0.338**	NA	**0.288**	NA
Calcium	NLE	NLE	NLE	921	**1,120**	NA	**1,190**	NA
Chromium	NLE	NLE	NLE	269	**38.9**	NA	**34.5**	NA
Cobalt	1,600	590	90	2.5	**2.93**	NA	**1.68**	NA
Copper	3,100	45,000	11,000	8	**8.46**	NA	**6.49**	NA
Iron	NLE	NLE	NLE	55,800	**16,800**	NA	**13,700**	NA
Lead	400	800	90	19.5	**26**	NA	**13.3**	NA
Magnesium	NLE	NLE	NLE	7,230	**1,560**	NA	**1,320**	NA
Manganese	11,000	5,900	65	90.7	**68**	NA	**39.1**	NA
Mercury	23	65	0.1	ND	**0.399**	NA	**0.224**	NA
Nickel	1,600	23,000	48	8.4	**5.92**	NA	**4.33**	NA
Potassium	NLE	NLE	NLE	15,400	**2,950**	NA	**2,890**	NA
Selenium	390	5,700	11	1.9	**0.984**	NA	< 0.651	NA
Silver	390	5,700	1	1.1	< 0.64	NA	< 0.651	NA
Sodium	NLE	NLE	NLE	51.6	**172**	NA	**139**	NA
Thallium	5	79	3	ND	< 0.64	NA	< 0.651	NA
Vanadium	78	1,100	NLE	94.1	**29.6**	NA	**23.3**	NA
Zinc	23,000	110,000	930	81.4	**43.6**	NA	**25.3**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-171		FTMM02-B-172	FTMM02-B-172
Sample ID					FTMM02-SS-B-171-0-1.0	FTMM02-SS-B-171-2-2	FTMM02-SS-B-172-0-1.0	FTMM02-SS-B-172-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 580	NA	< 550
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 290	NA	< 280
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 580	NA	< 550
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 580	NA	< 550
Toluene	6,300,000	91,000,000	7,000	-	NA	< 290	NA	< 280
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**1,200**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	**180 J**	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	**180 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	**180 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	**130 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	**540 J**	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	**330 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**710 JB**	NA	**1,200 B**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	**240 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**160 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	**290 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**35,620**	NA	**14,870**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-171		FTMM02-B-172	FTMM02-B-172
Sample ID					FTMM02-SS-B-171-0-1.0	FTMM02-SS-B-171-2-2	FTMM02-SS-B-172-0-1.0	FTMM02-SS-B-172-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.048**	NA	**0.077**	NA
4,4'-DDE	2	9	18	-	**0.047**	NA	**0.04**	NA
4,4'-DDT	2	8	11	-	**0.038**	NA	**0.025**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0106	NA	< 0.0108	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0106	NA	< 0.0108	NA
Endrin	23	340	1	-	< 0.0106	NA	< 0.0108	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0085	NA	< 0.0086	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0106	NA	< 0.0108	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3397	NA	< 0.3345	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1359	NA	< 0.1378	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0849	NA	< 0.0861	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0764	NA	< 0.0775	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**12,200**	NA	**12,100**	NA
Antimony	31	450	6	ND	**2.04**	NA	**1.61**	NA
Arsenic	19	19	19	22.9	**31.4**	NA	**11.8**	NA
Barium	16,000	59,000	2,100	32.3	**40**	NA	**62.6**	NA
Beryllium	16	140	0.7	2	**1.62**	NA	**1.36**	NA
Cadmium	78	78	2	ND	**2.17**	NA	**2.71**	NA
Calcium	NLE	NLE	NLE	921	**743**	NA	**2,220**	NA
Chromium	NLE	NLE	NLE	269	**121**	NA	**121**	NA
Cobalt	1,600	590	90	2.5	**3.94**	NA	**3.44**	NA
Copper	3,100	45,000	11,000	8	**114**	NA	**53**	NA
Iron	NLE	NLE	NLE	55,800	**37,900**	NA	**33,400**	NA
Lead	400	800	90	19.5	**116**	NA	**52.5**	NA
Magnesium	NLE	NLE	NLE	7,230	**4,090**	NA	**4,050**	NA
Manganese	11,000	5,900	65	90.7	**57.1**	NA	**98.2**	NA
Mercury	23	65	0.1	ND	**0.883**	NA	**0.713**	NA
Nickel	1,600	23,000	48	8.4	**8.64**	NA	**14.3**	NA
Potassium	NLE	NLE	NLE	15,400	**9,360**	NA	**9,360**	NA
Selenium	390	5,700	11	1.9	**1.59**	NA	**1.78**	NA
Silver	390	5,700	1	1.1	**1.2**	NA	< 0.731	NA
Sodium	NLE	NLE	NLE	51.6	**109**	NA	**249**	NA
Thallium	5	79	3	ND	< 0.761	NA	< 0.731	NA
Vanadium	78	1,100	NLE	94.1	**61.6**	NA	**60.1**	NA
Zinc	23,000	110,000	930	81.4	**110**	NA	**228**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-173		FTMM02-B-174	
Sample ID					FTMM02-SS-B-173-0-1.0	FTMM02-SS-B-173-2-2	FTMM02-SS-B-174-0-1.0	FTMM02-SS-B-174-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 680	NA	< 580
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 340	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 680	NA	< 580
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 680	NA	< 580
Toluene	6,300,000	91,000,000	7,000	-	NA	< 340	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**3,100**	NA	**2,300**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**270 JB**	NA	**380 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	< 1100	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**17,960**	NA	**34,980**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-173		FTMM02-B-174	
Sample ID					FTMM02-SS-B-173-0-1.0	FTMM02-SS-B-173-2-2	FTMM02-SS-B-174-0-1.0	FTMM02-SS-B-174-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.02**	NA	< 0.0132	NA
4,4'-DDE	2	9	18	-	**0.015**	NA	**0.018**	NA
4,4'-DDT	2	8	11	-	< 0.0232	NA	< 0.0242	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0106	NA	< 0.011	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0106	NA	< 0.011	NA
Endrin	23	340	1	-	< 0.0106	NA	< 0.011	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0084	NA	< 0.0088	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0106	NA	< 0.011	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3378	NA	< 0.3514	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1351	NA	< 0.1406	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0844	NA	< 0.0879	NA
Aroclor-1260	0.2	1	NLE	-	< 0.076	NA	< 0.0791	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**6,100**	NA	**8,620**	NA
Antimony	31	450	6	ND	**0.884**	NA	**1.02**	NA
Arsenic	19	19	19	22.9	**6.39**	NA	**4.73**	NA
Barium	16,000	59,000	2,100	32.3	**22.6**	NA	**30.6**	NA
Beryllium	16	140	0.7	2	**0.541**	NA	**0.596**	NA
Cadmium	78	78	2	ND	**1.35**	NA	**0.866**	NA
Calcium	NLE	NLE	NLE	921	**767**	NA	**1,090**	NA
Chromium	NLE	NLE	NLE	269	**42.9**	NA	**50.6**	NA
Cobalt	1,600	590	90	2.5	**1.54**	NA	**1.87**	NA
Copper	3,100	45,000	11,000	8	**93.1**	NA	**18.7**	NA
Iron	NLE	NLE	NLE	55,800	**15,700**	NA	**16,500**	NA
Lead	400	800	90	19.5	**24.9**	NA	**46.5**	NA
Magnesium	NLE	NLE	NLE	7,230	**1,410**	NA	**1,810**	NA
Manganese	11,000	5,900	65	90.7	**66.1**	NA	**49.2**	NA
Mercury	23	65	0.1	ND	**0.063**	NA	< 0.022	NA
Nickel	1,600	23,000	48	8.4	**4.1**	NA	**5.42**	NA
Potassium	NLE	NLE	NLE	15,400	**2,560**	NA	**3,230**	NA
Selenium	390	5,700	11	1.9	**0.85**	NA	**1.01**	NA
Silver	390	5,700	1	1.1	< 0.743	NA	< 0.698	NA
Sodium	NLE	NLE	NLE	51.6	**89.7**	NA	**126**	NA
Thallium	5	79	3	ND	< 0.743	NA	< 0.698	NA
Vanadium	78	1,100	NLE	94.1	**29.8**	NA	**35.4**	NA
Zinc	23,000	110,000	930	81.4	**54.3**	NA	**64**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-175		FTMM02-B-176	FTMM02-B-176
Sample ID					FTMM02-SS-B-175-0-1.0	FTMM02-SS-B-175-2-2	FTMM02-SS-B-176-0-1.0	FTMM02-SS-B-176-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 590	NA	< 530
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 300	NA	< 260
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 590	NA	< 530
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 590	NA	< 530
Toluene	6,300,000	91,000,000	7,000	-	NA	< 300	NA	< 260
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,600**	NA	**1,400**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	**140 J**	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	**260 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**690 JB**	NA	**200 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	**270 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**160 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	**240 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**31,970**	NA	**24,540**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-175		FTMM02-B-176	FTMM02-B-176
Sample ID					FTMM02-SS-B-175-0-1.0	FTMM02-SS-B-175-2-2	FTMM02-SS-B-176-0-1.0	FTMM02-SS-B-176-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.017**	NA	**0.017**	NA
4,4'-DDE	2	9	18	-	**0.013**	NA	**0.014**	NA
4,4'-DDT	2	8	11	-	< 0.024	NA	< 0.0241	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0109	NA	< 0.011	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0109	NA	< 0.011	NA
Endrin	23	340	1	-	< 0.0109	NA	< 0.011	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0087	NA	< 0.0088	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0109	NA	**0.013**	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3485	NA	< 0.3506	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1394	NA	< 0.1402	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0871	NA	< 0.0877	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0784	NA	< 0.0789	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**10,600**	NA	**8,970**	NA
Antimony	31	450	6	ND	**0.51**	NA	**1.05**	NA
Arsenic	19	19	19	22.9	**8.21**	NA	**8.91**	NA
Barium	16,000	59,000	2,100	32.3	**58.4**	NA	**39.3**	NA
Beryllium	16	140	0.7	2	**0.694**	NA	**0.717**	NA
Cadmium	78	78	2	ND	**0.995**	NA	**1.12**	NA
Calcium	NLE	NLE	NLE	921	**1,190**	NA	**1,790**	NA
Chromium	NLE	NLE	NLE	269	**37.6**	NA	**59.9**	NA
Cobalt	1,600	590	90	2.5	**2.79**	NA	**2.11**	NA
Copper	3,100	45,000	11,000	8	**14.3**	NA	**21**	NA
Iron	NLE	NLE	NLE	55,800	**21,000**	NA	**22,800**	NA
Lead	400	800	90	19.5	**126**	NA	**68.8**	NA
Magnesium	NLE	NLE	NLE	7,230	**1,550**	NA	**2,270**	NA
Manganese	11,000	5,900	65	90.7	**163**	NA	**81.3**	NA
Mercury	23	65	0.1	ND	**0.144**	NA	**0.089**	NA
Nickel	1,600	23,000	48	8.4	**8.02**	NA	**10.4**	NA
Potassium	NLE	NLE	NLE	15,400	**2,080**	NA	**4,460**	NA
Selenium	390	5,700	11	1.9	**0.872**	NA	**1.28**	NA
Silver	390	5,700	1	1.1	< 0.627	NA	< 0.705	NA
Sodium	NLE	NLE	NLE	51.6	**121**	NA	**151**	NA
Thallium	5	79	3	ND	< 0.627	NA	< 0.705	NA
Vanadium	78	1,100	NLE	94.1	**42.2**	NA	**40**	NA
Zinc	23,000	110,000	930	81.4	**83.5**	NA	**75.6**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-177		FTMM02-B-178	
Sample ID					FTMM02-SS-B-177-0-1.0	FTMM02-SS-B-177-2-2	FTMM02-SS-B-178-0-1.0	FTMM02-SS-B-178-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 560	NA	< 480
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 240
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 560	NA	< 480
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 560	NA	< 480
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 240
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,400**	NA	**2,000**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	**120 J**	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**1,000 JB**	NA	**1,200 B**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	< 1100	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**21,400**	NA	**32,330**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-177		FTMM02-B-178	
Sample ID					FTMM02-SS-B-177-0-1.0	FTMM02-SS-B-177-2-2	FTMM02-SS-B-178-0-1.0	FTMM02-SS-B-178-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.02**	NA	**0.023**	NA
4,4'-DDE	2	9	18	-	**0.017**	NA	**0.056**	NA
4,4'-DDT	2	8	11	-	< 0.0236	NA	**0.055**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0107	NA	< 0.0116	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0107	NA	< 0.0116	NA
Endrin	23	340	1	-	< 0.0107	NA	< 0.0116	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0086	NA	< 0.0093	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0107	NA	< 0.0116	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3426	NA	**5.983**	NA
Aroclor-1248	0.2	1	NLE	-	< 0.137	NA	< 0.0074	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0856	NA	< 0.0046	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0771	NA	< 0.0042	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**10,500**	NA	**2,330**	NA
Antimony	31	450	6	ND	**1.53**	NA	**1.39**	NA
Arsenic	19	19	19	22.9	**7.03**	NA	**5.95**	NA
Barium	16,000	59,000	2,100	32.3	**36.1**	NA	**31.8**	NA
Beryllium	16	140	0.7	2	**0.793**	NA	**0.243**	NA
Cadmium	78	78	2	ND	**1.06**	NA	**1.42**	NA
Calcium	NLE	NLE	NLE	921	**2,040**	NA	**1,050**	NA
Chromium	NLE	NLE	NLE	269	**69.4**	NA	**16.1**	NA
Cobalt	1,600	590	90	2.5	**2.38**	NA	**0.557**	NA
Copper	3,100	45,000	11,000	8	**24.1**	NA	**16.8**	NA
Iron	NLE	NLE	NLE	55,800	**22,000**	NA	**6,590**	NA
Lead	400	800	90	19.5	**61.7**	NA	**12.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,460**	NA	**191**	NA
Manganese	11,000	5,900	65	90.7	**85.4**	NA	**46.9**	NA
Mercury	23	65	0.1	ND	**0.125**	NA	< 0.024	NA
Nickel	1,600	23,000	48	8.4	**7.65**	NA	**6.38**	NA
Potassium	NLE	NLE	NLE	15,400	**4,760**	NA	**224**	NA
Selenium	390	5,700	11	1.9	**0.908**	NA	< 0.746	NA
Silver	390	5,700	1	1.1	< 0.673	NA	< 0.746	NA
Sodium	NLE	NLE	NLE	51.6	**142**	NA	**82.2**	NA
Thallium	5	79	3	ND	< 0.673	NA	< 0.746	NA
Vanadium	78	1,100	NLE	94.1	**47.6**	NA	**13.3**	NA
Zinc	23,000	110,000	930	81.4	**82.4**	NA	**161**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-179		FTMM02-B-180	FTMM02-B-180
Sample ID					FTMM02-SS-B-179-0-1.0	FTMM02-SS-B-179-2-2	FTMM02-SS-B-180-0-1.0	FTMM02-SS-B-180-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 550	NA	< 690
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	NA	< 350
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 550	NA	< 690
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 550	NA	< 690
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	NA	< 350
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,300**	NA	**1,800**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**320 JB**	NA	**120 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	**110 J**	NA	< 1100	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**15,030**	NA	**24,960**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-179		FTMM02-B-180	FTMM02-B-180
Sample ID					FTMM02-SS-B-179-0-1.0	FTMM02-SS-B-179-2-2	FTMM02-SS-B-180-0-1.0	FTMM02-SS-B-180-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.036**	NA	**0.067**	NA
4,4'-DDE	2	9	18	-	**0.055**	NA	**0.152**	NA
4,4'-DDT	2	8	11	-	**0.035**	NA	**0.42**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0117	NA	< 0.011	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0117	NA	< 0.011	NA
Endrin	23	340	1	-	< 0.0117	NA	< 0.011	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0093	NA	< 0.0088	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0117	NA	< 0.011	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3731	NA	< 0.3535	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1492	NA	< 0.1414	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0933	NA	< 0.0884	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0839	NA	< 0.0795	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**2,030**	NA	**1,290**	NA
Antimony	31	450	6	ND	**0.967**	NA	**0.827**	NA
Arsenic	19	19	19	22.9	**5.21**	NA	**7.52**	NA
Barium	16,000	59,000	2,100	32.3	**16.2**	NA	**18.1**	NA
Beryllium	16	140	0.7	2	**0.525**	NA	**0.218**	NA
Cadmium	78	78	2	ND	**0.666**	NA	**0.797**	NA
Calcium	NLE	NLE	NLE	921	**611**	NA	**1,500**	NA
Chromium	NLE	NLE	NLE	269	**17.3**	NA	**9.21**	NA
Cobalt	1,600	590	90	2.5	**0.757**	NA	**0.752**	NA
Copper	3,100	45,000	11,000	8	**33.2**	NA	**26.8**	NA
Iron	NLE	NLE	NLE	55,800	**7,080**	NA	**5,970**	NA
Lead	400	800	90	19.5	**22.9**	NA	**21.1**	NA
Magnesium	NLE	NLE	NLE	7,230	**165**	NA	**136**	NA
Manganese	11,000	5,900	65	90.7	**19.3**	NA	**30.5**	NA
Mercury	23	65	0.1	ND	**1.9**	NA	**0.805**	NA
Nickel	1,600	23,000	48	8.4	**2.14**	NA	**2.79**	NA
Potassium	NLE	NLE	NLE	15,400	**210**	NA	**278**	NA
Selenium	390	5,700	11	1.9	**0.816**	NA	< 0.72	NA
Silver	390	5,700	1	1.1	< 0.642	NA	< 0.72	NA
Sodium	NLE	NLE	NLE	51.6	**78.9**	NA	**101**	NA
Thallium	5	79	3	ND	< 0.642	NA	< 0.72	NA
Vanadium	78	1,100	NLE	94.1	**17.9**	NA	**9.45**	NA
Zinc	23,000	110,000	930	81.4	**33.3**	NA	**47.1**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-181		FTMM02-B-182	
Sample ID					FTMM02-SS-B-181-0-1.0	FTMM02-SS-B-181-2-2	FTMM02-SS-B-182-0-1.0	FTMM02-SS-B-182-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 560	NA	< 570
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 560	NA	< 570
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 560	NA	< 570
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,800**	NA	**2,800**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	**120 JB**	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	< 1100	NA	**230 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	< 1100	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**15,770**	NA	**11,830**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-181		FTMM02-B-182	
Sample ID					FTMM02-SS-B-181-0-1.0	FTMM02-SS-B-181-2-2	FTMM02-SS-B-182-0-1.0	FTMM02-SS-B-182-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	< 0.0129	NA	< 0.0135	NA
4,4'-DDE	2	9	18	-	**0.024**	NA	**0.034**	NA
4,4'-DDT	2	8	11	-	< 0.0237	NA	**0.04**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0108	NA	< 0.0112	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0108	NA	< 0.0112	NA
Endrin	23	340	1	-	< 0.0108	NA	< 0.0112	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0086	NA	< 0.009	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0108	NA	< 0.0112	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3452	NA	< 0.359	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1381	NA	< 0.1436	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0863	NA	< 0.0897	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0777	NA	< 0.0808	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**1,470**	NA	**2,070**	NA
Antimony	31	450	6	ND	**0.793**	NA	**0.583**	NA
Arsenic	19	19	19	22.9	**3.35**	NA	**9.57**	NA
Barium	16,000	59,000	2,100	32.3	**13.6**	NA	**8.78**	NA
Beryllium	16	140	0.7	2	**0.147**	NA	**0.171**	NA
Cadmium	78	78	2	ND	**0.536**	NA	**0.565**	NA
Calcium	NLE	NLE	NLE	921	**742**	NA	**357**	NA
Chromium	NLE	NLE	NLE	269	**9.27**	NA	**13.7**	NA
Cobalt	1,600	590	90	2.5	**0.38**	NA	**0.41**	NA
Copper	3,100	45,000	11,000	8	**13**	NA	**11**	NA
Iron	NLE	NLE	NLE	55,800	**3,710**	NA	**8,760**	NA
Lead	400	800	90	19.5	**12.6**	NA	**9.58**	NA
Magnesium	NLE	NLE	NLE	7,230	**139**	NA	**96.4**	NA
Manganese	11,000	5,900	65	90.7	**17.8**	NA	**15.3**	NA
Mercury	23	65	0.1	ND	**1.11**	NA	**0.361**	NA
Nickel	1,600	23,000	48	8.4	**1.35**	NA	**1.2**	NA
Potassium	NLE	NLE	NLE	15,400	**134**	NA	**140**	NA
Selenium	390	5,700	11	1.9	< 0.595	NA	< 0.738	NA
Silver	390	5,700	1	1.1	< 0.595	NA	< 0.738	NA
Sodium	NLE	NLE	NLE	51.6	**73.6**	NA	**58.8**	NA
Thallium	5	79	3	ND	< 0.595	NA	< 0.738	NA
Vanadium	78	1,100	NLE	94.1	**10**	NA	**14.2**	NA
Zinc	23,000	110,000	930	81.4	**24.6**	NA	**18**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-183		FTMM02-B-184	FTMM02-B-184
Sample ID					FTMM02-SS-B-183-0-1.0	FTMM02-SS-B-183-2-2	FTMM02-SS-B-184-0-1.0	FTMM02-SS-B-184-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 580	NA	< 570
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 290	NA	< 280
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 580	NA	< 570
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 580	NA	< 570
Toluene	6,300,000	91,000,000	7,000	-	NA	< 290	NA	< 280
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,700**	NA	**2,800**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**130 J**	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**150 JB**	NA	**120 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**130 J**	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	**130 J**	NA	< 1100	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**33,940**	NA	**22,450**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-183		FTMM02-B-184	FTMM02-B-184
Sample ID					FTMM02-SS-B-183-0-1.0	FTMM02-SS-B-183-2-2	FTMM02-SS-B-184-0-1.0	FTMM02-SS-B-184-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.015**	NA	< 0.0132	NA
4,4'-DDE	2	9	18	-	**0.027**	NA	**0.082**	NA
4,4'-DDT	2	8	11	-	< 0.0235	NA	**0.102**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0107	NA	< 0.011	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0107	NA	< 0.011	NA
Endrin	23	340	1	-	< 0.0107	NA	< 0.011	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0085	NA	< 0.0088	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0107	NA	< 0.011	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3414	NA	< 0.3512	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1366	NA	< 0.1405	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0854	NA	< 0.0878	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0768	NA	< 0.079	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**1,430**	NA	**1,620**	NA
Antimony	31	450	6	ND	**0.916**	NA	**0.402**	NA
Arsenic	19	19	19	22.9	**4.12**	NA	**5.91**	NA
Barium	16,000	59,000	2,100	32.3	**22.7**	NA	**17.5**	NA
Beryllium	16	140	0.7	2	**0.192**	NA	**0.194**	NA
Cadmium	78	78	2	ND	**1.1**	NA	**0.626**	NA
Calcium	NLE	NLE	NLE	921	**1,800**	NA	**969**	NA
Chromium	NLE	NLE	NLE	269	**6.03**	NA	**11.4**	NA
Cobalt	1,600	590	90	2.5	**0.733**	NA	**0.578**	NA
Copper	3,100	45,000	11,000	8	**18.9**	NA	**11.5**	NA
Iron	NLE	NLE	NLE	55,800	**5,690**	NA	**5,470**	NA
Lead	400	800	90	19.5	**62**	NA	**56.3**	NA
Magnesium	NLE	NLE	NLE	7,230	**198**	NA	**212**	NA
Manganese	11,000	5,900	65	90.7	**36.3**	NA	**39.6**	NA
Mercury	23	65	0.1	ND	**0.545**	NA	**0.965**	NA
Nickel	1,600	23,000	48	8.4	**2.91**	NA	**1.57**	NA
Potassium	NLE	NLE	NLE	15,400	**283**	NA	**189**	NA
Selenium	390	5,700	11	1.9	< 0.727	NA	< 0.662	NA
Silver	390	5,700	1	1.1	< 0.727	NA	< 0.662	NA
Sodium	NLE	NLE	NLE	51.6	**83.8**	NA	**356**	NA
Thallium	5	79	3	ND	< 0.727	NA	< 0.662	NA
Vanadium	78	1,100	NLE	94.1	**10.6**	NA	**10**	NA
Zinc	23,000	110,000	930	81.4	**47.6**	NA	**32.6**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-185		FTMM02-B-186	
Sample ID					FTMM02-SS-B-185-0-1.0	FTMM02-SS-B-185-2-2	FTMM02-SS-B-186-0-1.0	FTMM02-SS-B-186-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 530	NA	< 570
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	NA	< 280
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 530	NA	< 570
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 530	NA	< 570
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	NA	< 280
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**2,040**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1000	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1000	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1000	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1000	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1000	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1000	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1000	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1000	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1000	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1000	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1000	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	< 1000	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1000	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1000	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1000	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**200 JB**	NA	**140 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1000	NA	**140 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1000	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1000	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1000	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1000	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1000	NA	**170 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**31,230**	NA	**22,520**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-185		FTMM02-B-186	
Sample ID					FTMM02-SS-B-185-0-1.0	FTMM02-SS-B-185-2-2	FTMM02-SS-B-186-0-1.0	FTMM02-SS-B-186-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	< 0.0125	NA	**0.017**	NA
4,4'-DDE	2	9	18	-	< 0.0083	NA	**0.016**	NA
4,4'-DDT	2	8	11	-	< 0.0229	NA	< 0.0243	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0104	NA	< 0.0111	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0104	NA	< 0.0111	NA
Endrin	23	340	1	-	< 0.0104	NA	< 0.0111	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0083	NA	< 0.0089	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0104	NA	< 0.0111	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3333	NA	< 0.3541	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1333	NA	< 0.1416	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0833	NA	< 0.0885	NA
Aroclor-1260	0.2	1	NLE	-	< 0.075	NA	< 0.0797	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**1,620**	NA	**914**	NA
Antimony	31	450	6	ND	< 0.46	NA	**0.605**	NA
Arsenic	19	19	19	22.9	**3.67**	NA	**8.39**	NA
Barium	16,000	59,000	2,100	32.3	**11.4**	NA	**42.7**	NA
Beryllium	16	140	0.7	2	**0.228**	NA	**0.209**	NA
Cadmium	78	78	2	ND	**0.669**	NA	**0.459**	NA
Calcium	NLE	NLE	NLE	921	**434**	NA	**1,180**	NA
Chromium	NLE	NLE	NLE	269	**11.7**	NA	**94.3**	NA
Cobalt	1,600	590	90	2.5	**0.481**	NA	**6.51**	NA
Copper	3,100	45,000	11,000	8	**7.61**	NA	**17.8**	NA
Iron	NLE	NLE	NLE	55,800	**6,370**	NA	**7,410**	NA
Lead	400	800	90	19.5	**22.6**	NA	**18.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**84.2**	NA	**2,010**	NA
Manganese	11,000	5,900	65	90.7	**9.83**	NA	**64.8**	NA
Mercury	23	65	0.1	ND	**1.32**	NA	**1.69**	NA
Nickel	1,600	23,000	48	8.4	**1.96**	NA	**1,760**	NA
Potassium	NLE	NLE	NLE	15,400	**71.4**	NA	**623**	NA
Selenium	390	5,700	11	1.9	< 0.69	NA	< 0.76	NA
Silver	390	5,700	1	1.1	**11.1**	NA	< 0.76	NA
Sodium	NLE	NLE	NLE	51.6	**221**	NA	**144**	NA
Thallium	5	79	3	ND	< 0.69	NA	< 0.76	NA
Vanadium	78	1,100	NLE	94.1	**7.99**	NA	**9.93**	NA
Zinc	23,000	110,000	930	81.4	**23.5**	NA	**110**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-187		FTMM02-B-188	FTMM02-B-188
Sample ID					FTMM02-SS-B-187-0-1.0	FTMM02-SS-B-187-2-2	FTMM02-SS-B-188-0-1.0	FTMM02-SS-B-188-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 620	NA	< 540
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 310	NA	< 270
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 620	NA	< 540
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 620	NA	< 540
Toluene	6,300,000	91,000,000	7,000	-	NA	< 310	NA	< 270
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	**190 J**	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**240 J**	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**170 J**	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	**350 J**	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**320 JB**	NA	**330 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**300 J**	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	**140 J**	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	**310 J**	NA	< 1100	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**32,200**	NA	**18,270**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-187		FTMM02-B-188	FTMM02-B-188
Sample ID					FTMM02-SS-B-187-0-1.0	FTMM02-SS-B-187-2-2	FTMM02-SS-B-188-0-1.0	FTMM02-SS-B-188-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.045**	NA	**0.08**	NA
4,4'-DDE	2	9	18	-	**0.04**	NA	**0.029**	NA
4,4'-DDT	2	8	11	-	< 0.0242	NA	< 0.0244	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.011	NA	< 0.0111	NA
Dieldrin	0.04	0.2	0.003	-	**0.019**	NA	< 0.0111	NA
Endrin	23	340	1	-	< 0.011	NA	< 0.0111	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0088	NA	< 0.0089	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.011	NA	< 0.0111	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3519	NA	< 0.355	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1407	NA	< 0.142	NA
Aroclor-1254	0.2	1	NLE	-	< 0.088	NA	< 0.0887	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0792	NA	< 0.0799	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**11,800**	NA	**6,550**	NA
Antimony	31	450	6	ND	**5.58**	NA	**0.62**	NA
Arsenic	19	19	19	22.9	**12.3**	NA	**5.95**	NA
Barium	16,000	59,000	2,100	32.3	**122**	NA	**34.7**	NA
Beryllium	16	140	0.7	2	**1.26**	NA	**0.606**	NA
Cadmium	78	78	2	ND	**1.83**	NA	**1.35**	NA
Calcium	NLE	NLE	NLE	921	**3,680**	NA	**2,300**	NA
Chromium	NLE	NLE	NLE	269	**129**	NA	**60**	NA
Cobalt	1,600	590	90	2.5	**4.69**	NA	**2.47**	NA
Copper	3,100	45,000	11,000	8	**46.1**	NA	**12.1**	NA
Iron	NLE	NLE	NLE	55,800	**33,800**	NA	**17,500**	NA
Lead	400	800	90	19.5	**84.6**	NA	**21.2**	NA
Magnesium	NLE	NLE	NLE	7,230	**4,400**	NA	**1,770**	NA
Manganese	11,000	5,900	65	90.7	**122**	NA	**39.5**	NA
Mercury	23	65	0.1	ND	**2.09**	NA	**0.275**	NA
Nickel	1,600	23,000	48	8.4	**11.4**	NA	**9.21**	NA
Potassium	NLE	NLE	NLE	15,400	**9,540**	NA	**3,740**	NA
Selenium	390	5,700	11	1.9	**1.95**	NA	**1.52**	NA
Silver	390	5,700	1	1.1	< 0.722	NA	< 0.751	NA
Sodium	NLE	NLE	NLE	51.6	**369**	NA	**146**	NA
Thallium	5	79	3	ND	< 0.722	NA	< 0.751	NA
Vanadium	78	1,100	NLE	94.1	**60.4**	NA	**33.3**	NA
Zinc	23,000	110,000	930	81.4	**305**	NA	**59.8**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-189		FTMM02-B-19	
Sample ID					FTMM02-SS-B-189-0-1.0	FTMM02-SS-B-189-2-2	FTMM02-SS-B-19-0-1.0	FTMM02-SS-B-19-2-2
Sample Date					5/18/1999	5/18/1999	2/24/1999	2/24/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 590	NA	< 580
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 290	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 590	NA	< 580
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 590	NA	< 580
Toluene	6,300,000	91,000,000	7,000	-	NA	< 290	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	**140 J**	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**150 JB**	NA	**880 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	< 1100	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**55,440**	NA	**8,300**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-189		FTMM02-B-19	
Sample ID					FTMM02-SS-B-189-0-1.0	FTMM02-SS-B-189-2-2	FTMM02-SS-B-19-0-1.0	FTMM02-SS-B-19-2-2
Sample Date					5/18/1999	5/18/1999	2/24/1999	2/24/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	< 0.0134	NA	**0.04**	NA
4,4'-DDE	2	9	18	-	< 0.0089	NA	**0.11**	NA
4,4'-DDT	2	8	11	-	< 0.0246	NA	**0.176**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0112	NA	< 0.011	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0112	NA	< 0.011	NA
Endrin	23	340	1	-	< 0.0112	NA	< 0.011	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0089	NA	< 0.0088	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0112	NA	< 0.011	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3572	NA	< 0.3515	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1429	NA	< 0.1406	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0893	NA	< 0.0879	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0804	NA	< 0.0791	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**9,120**	NA	**4,370**	NA
Antimony	31	450	6	ND	**0.835**	NA	**0.48**	NA
Arsenic	19	19	19	22.9	**9.82**	NA	**2.22**	NA
Barium	16,000	59,000	2,100	32.3	**56.9**	NA	**7.44**	NA
Beryllium	16	140	0.7	2	**1.19**	NA	**0.177**	NA
Cadmium	78	78	2	ND	**1.2**	NA	**0.384**	NA
Calcium	NLE	NLE	NLE	921	**1,090**	NA	**92.4**	NA
Chromium	NLE	NLE	NLE	269	**135**	NA	**19.4**	NA
Cobalt	1,600	590	90	2.5	**1.44**	NA	**0.86**	NA
Copper	3,100	45,000	11,000	8	**6.18**	NA	**66.6**	NA
Iron	NLE	NLE	NLE	55,800	**29,900**	NA	**7,890**	NA
Lead	400	800	90	19.5	**11.5**	NA	**4.46**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,770**	NA	**437**	NA
Manganese	11,000	5,900	65	90.7	**18.1**	NA	**12.3**	NA
Mercury	23	65	0.1	ND	**0.254**	NA	**0.09**	NA
Nickel	1,600	23,000	48	8.4	**6.14**	NA	**2.51**	NA
Potassium	NLE	NLE	NLE	15,400	**8,560**	NA	**849**	NA
Selenium	390	5,700	11	1.9	**2.18**	NA	< 0.646	NA
Silver	390	5,700	1	1.1	< 0.715	NA	< 0.646	NA
Sodium	NLE	NLE	NLE	51.6	**108**	NA	**146**	NA
Thallium	5	79	3	ND	< 0.715	NA	< 0.646	NA
Vanadium	78	1,100	NLE	94.1	**54.7**	NA	**17.9**	NA
Zinc	23,000	110,000	930	81.4	**55.6**	NA	**9.61**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-190		FTMM02-B-191	FTMM02-B-191
Sample ID					FTMM02-SS-B-190-0-1.0	FTMM02-SS-B-190-2-2	FTMM02-SS-B-191-0-1.0	FTMM02-SS-B-191-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 590	NA	< 580
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 290	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 590	NA	< 580
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 590	NA	< 580
Toluene	6,300,000	91,000,000	7,000	-	NA	< 290	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**1,700**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	**120 JB**	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**510 JB**	NA	**410 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	< 1100	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	**120 J**	NA	**140 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**37,630**	NA	**55,600**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-190		FTMM02-B-191	FTMM02-B-191
Sample ID					FTMM02-SS-B-190-0-1.0	FTMM02-SS-B-190-2-2	FTMM02-SS-B-191-0-1.0	FTMM02-SS-B-191-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	< 0.0128	NA	**0.057**	NA
4,4'-DDE	2	9	18	-	**0.071**	NA	**0.052**	NA
4,4'-DDT	2	8	11	-	< 0.0235	NA	**0.096**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0107	NA	< 0.0116	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0107	NA	**0.02**	NA
Endrin	23	340	1	-	< 0.0107	NA	< 0.0116	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0085	NA	< 0.0093	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0107	NA	< 0.0116	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.0171	NA	< 0.3703	NA
Aroclor-1248	0.2	1	NLE	-	< 0.0068	NA	< 0.1481	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0043	NA	< 0.0926	NA
Aroclor-1260	0.2	1	NLE	-	**5.806**	NA	< 0.0833	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**9,390**	NA	**11,300**	NA
Antimony	31	450	6	ND	**0.882**	NA	**1.02**	NA
Arsenic	19	19	19	22.9	**8.3**	NA	**12**	NA
Barium	16,000	59,000	2,100	32.3	**142**	NA	**95.2**	NA
Beryllium	16	140	0.7	2	**1.26**	NA	**1.5**	NA
Cadmium	78	78	2	ND	**1.94**	NA	**3.72**	NA
Calcium	NLE	NLE	NLE	921	**797**	NA	**1,150**	NA
Chromium	NLE	NLE	NLE	269	**124**	NA	**169**	NA
Cobalt	1,600	590	90	2.5	**1.71**	NA	**1.46**	NA
Copper	3,100	45,000	11,000	8	**59.9**	NA	**14.6**	NA
Iron	NLE	NLE	NLE	55,800	**28,900**	NA	**39,200**	NA
Lead	400	800	90	19.5	**37.7**	NA	**12.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,770**	NA	**5,210**	NA
Manganese	11,000	5,900	65	90.7	**48**	NA	**28.9**	NA
Mercury	23	65	0.1	ND	**0.365**	NA	**0.378**	NA
Nickel	1,600	23,000	48	8.4	**9.52**	NA	**7.17**	NA
Potassium	NLE	NLE	NLE	15,400	**8,500**	NA	**12,300**	NA
Selenium	390	5,700	11	1.9	**2.01**	NA	**2.61**	NA
Silver	390	5,700	1	1.1	< 0.657	NA	< 0.772	NA
Sodium	NLE	NLE	NLE	51.6	**124**	NA	**151**	NA
Thallium	5	79	3	ND	< 0.657	NA	< 0.772	NA
Vanadium	78	1,100	NLE	94.1	**53.3**	NA	**72.4**	NA
Zinc	23,000	110,000	930	81.4	**178**	NA	**114**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-192		FTMM02-B-193	
Sample ID					FTMM02-SS-B-192-0-1.0	FTMM02-SS-B-192-2-2	FTMM02-SS-B-193-0-1.0	FTMM02-SS-B-193-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 550	NA	< 580
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 550	NA	< 580
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 550	NA	< 580
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**1,000**	NA	**980**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	**210 J**	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**220 J**	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**170 J**	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**140 JB**	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	**400 J**	NA	< 1100	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**420 JB**	NA	**160 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**340 J**	NA	**140 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	**170 J**	NA	**120 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	**320 J**	NA	**180 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**50,220**	NA	**15,640**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-192		FTMM02-B-193	
Sample ID					FTMM02-SS-B-192-0-1.0	FTMM02-SS-B-192-2-2	FTMM02-SS-B-193-0-1.0	FTMM02-SS-B-193-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.034**	NA	**0.031**	NA
4,4'-DDE	2	9	18	-	**0.043**	NA	**0.027**	NA
4,4'-DDT	2	8	11	-	**0.158**	NA	**0.035**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0107	NA	< 0.0113	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0107	NA	< 0.0113	NA
Endrin	23	340	1	-	< 0.0107	NA	< 0.0113	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0085	NA	< 0.009	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0107	NA	< 0.0113	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3412	NA	< 0.3608	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1365	NA	< 0.1443	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0853	NA	< 0.0902	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0768	NA	< 0.0812	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**8,010**	NA	**9,510**	NA
Antimony	31	450	6	ND	**0.848**	NA	**0.937**	NA
Arsenic	19	19	19	22.9	**17.6**	NA	**10.3**	NA
Barium	16,000	59,000	2,100	32.3	**52.9**	NA	**57.4**	NA
Beryllium	16	140	0.7	2	**1.33**	NA	**1.33**	NA
Cadmium	78	78	2	ND	**1.28**	NA	**1.09**	NA
Calcium	NLE	NLE	NLE	921	**1,750**	NA	**1,500**	NA
Chromium	NLE	NLE	NLE	269	**93.4**	NA	**113**	NA
Cobalt	1,600	590	90	2.5	**1.93**	NA	**1.84**	NA
Copper	3,100	45,000	11,000	8	**23**	NA	**10.6**	NA
Iron	NLE	NLE	NLE	55,800	**24,900**	NA	**26,200**	NA
Lead	400	800	90	19.5	**29.1**	NA	**23.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,980**	NA	**3,430**	NA
Manganese	11,000	5,900	65	90.7	**142**	NA	**24.1**	NA
Mercury	23	65	0.1	ND	**0.433**	NA	**0.283**	NA
Nickel	1,600	23,000	48	8.4	**8.87**	NA	**7.86**	NA
Potassium	NLE	NLE	NLE	15,400	**6,250**	NA	**7,020**	NA
Selenium	390	5,700	11	1.9	**1.41**	NA	**1.63**	NA
Silver	390	5,700	1	1.1	< 0.624	NA	< 0.739	NA
Sodium	NLE	NLE	NLE	51.6	**248**	NA	**167**	NA
Thallium	5	79	3	ND	< 0.624	NA	< 0.739	NA
Vanadium	78	1,100	NLE	94.1	**45.5**	NA	**52.1**	NA
Zinc	23,000	110,000	930	81.4	**282**	NA	**57.5**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-194		FTMM02-B-195	FTMM02-B-195
Sample ID					FTMM02-SS-B-194-0-1.0	FTMM02-SS-B-194-2-2	FTMM02-SS-B-195-0-1.0	FTMM02-SS-B-195-2-2
Sample Date					5/18/1999	5/18/1999	6/1/1999	6/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 590	NA	< 600
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 300	NA	< 300
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 590	NA	< 600
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 590	NA	< 600
Toluene	6,300,000	91,000,000	7,000	-	NA	< 300	NA	< 300
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1200	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1200	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1200	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	**120 J**	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1200	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1200	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1200	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1200	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 1200	NA
Chrysene	62,000	230,000	80,000	-	**200 J**	NA	**210 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1200	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1200	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**190 JB**	NA	**730 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**170 J**	NA	**210 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1200	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1200	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1200	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**120 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	**180 J**	NA	**200 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**19,420**	NA	**17,990**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-194		FTMM02-B-195	FTMM02-B-195
Sample ID					FTMM02-SS-B-194-0-1.0	FTMM02-SS-B-194-2-2	FTMM02-SS-B-195-0-1.0	FTMM02-SS-B-195-2-2
Sample Date					5/18/1999	5/18/1999	6/1/1999	6/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.036**	NA	**0.029**	NA
4,4'-DDE	2	9	18	-	**0.078**	NA	**0.022**	NA
4,4'-DDT	2	8	11	-	**0.26**	NA	< 0.0247	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.011	NA	< 0.0112	NA
Dieldrin	0.04	0.2	0.003	-	< 0.011	NA	< 0.0112	NA
Endrin	23	340	1	-	< 0.011	NA	< 0.0112	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0088	NA	< 0.009	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.011	NA	< 0.0112	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3527	NA	< 0.3594	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1441	NA	< 0.1438	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0882	NA	< 0.0899	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0794	NA	< 0.0809	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**1,080**	NA	**1,210**	NA
Antimony	31	450	6	ND	**0.874**	NA	**0.579**	NA
Arsenic	19	19	19	22.9	**16**	NA	**6.35**	NA
Barium	16,000	59,000	2,100	32.3	**73**	NA	**14.6**	NA
Beryllium	16	140	0.7	2	**0.119**	NA	**0.44**	NA
Cadmium	78	78	2	ND	**0.52**	NA	**0.959**	NA
Calcium	NLE	NLE	NLE	921	**892**	NA	**580**	NA
Chromium	NLE	NLE	NLE	269	**12.2**	NA	**16.2**	NA
Cobalt	1,600	590	90	2.5	**0.512**	NA	**0.483**	NA
Copper	3,100	45,000	11,000	8	**11.2**	NA	**6.66**	NA
Iron	NLE	NLE	NLE	55,800	**9,820**	NA	**6,940**	NA
Lead	400	800	90	19.5	**36.4**	NA	**16.8**	NA
Magnesium	NLE	NLE	NLE	7,230	**135**	NA	**66.6**	NA
Manganese	11,000	5,900	65	90.7	**8.35**	NA	**5.05**	NA
Mercury	23	65	0.1	ND	**0.68**	NA	**0.222**	NA
Nickel	1,600	23,000	48	8.4	**1.92**	NA	**3.67**	NA
Potassium	NLE	NLE	NLE	15,400	**767**	NA	**279**	NA
Selenium	390	5,700	11	1.9	**1.68**	NA	**0.816**	NA
Silver	390	5,700	1	1.1	< 0.755	NA	< 0.756	NA
Sodium	NLE	NLE	NLE	51.6	**99.1**	NA	**92.6**	NA
Thallium	5	79	3	ND	< 0.755	NA	< 0.756	NA
Vanadium	78	1,100	NLE	94.1	**10.8**	NA	**11.6**	NA
Zinc	23,000	110,000	930	81.4	**42.5**	NA	**69.7**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-196		FTMM02-B-197	
Sample ID					FTMM02-SS-B-196-0-1.0	FTMM02-SS-B-196-2-2	FTMM02-SS-B-197-0-1.0	FTMM02-SS-B-197-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 550	NA	< 490
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	NA	< 240
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 550	NA	< 490
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 550	NA	< 490
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	NA	< 240
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**3,400**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1000	NA	< 1000	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1000	NA	< 1000	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1000	NA	< 1000	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1000	NA	< 1000	NA
Azobenzene	NLE	NLE	NLE	-	< 1000	NA	< 1000	NA
Benzo(a)anthracene	600	2,000	800	-	< 1000	NA	< 1000	NA
Benzo(a)pyrene	200	200	200	-	< 1000	NA	< 1000	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1000	NA	< 1000	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1000	NA	< 1000	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1000	NA	< 1000	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1000	NA	< 1000	NA
Chrysene	62,000	230,000	80,000	-	< 1000	NA	< 1000	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1000	NA	< 1000	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1000	NA	< 1000	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1000	NA	< 1000	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**120 JB**	NA	**190 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1000	NA	< 1000	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1000	NA	< 1000	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1000	NA	< 1000	NA
Naphthalene	6,000	17,000	25,000	-	< 1000	NA	< 1000	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1000	NA	< 1000	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1000	NA	< 1000	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**8,100**	NA	**5,020**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-196		FTMM02-B-197	
Sample ID					FTMM02-SS-B-196-0-1.0	FTMM02-SS-B-196-2-2	FTMM02-SS-B-197-0-1.0	FTMM02-SS-B-197-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	< 0.0126	NA	**0.054**	NA
4,4'-DDE	2	9	18	-	< 0.0084	NA	**0.013**	NA
4,4'-DDT	2	8	11	-	< 0.023	NA	< 0.0231	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0105	NA	< 0.0105	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0105	NA	< 0.0105	NA
Endrin	23	340	1	-	< 0.0105	NA	< 0.0105	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0084	NA	< 0.0084	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0105	NA	< 0.0105	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3349	NA	< 0.3365	NA
Aroclor-1248	0.2	1	NLE	-	< 0.134	NA	< 0.1346	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0837	NA	< 0.0841	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0754	NA	< 0.0757	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**851**	NA	**1,050**	NA
Antimony	31	450	6	ND	< 0.461	NA	**0.464**	NA
Arsenic	19	19	19	22.9	**0.664**	NA	**4.58**	NA
Barium	16,000	59,000	2,100	32.3	**3.67**	NA	**30**	NA
Beryllium	16	140	0.7	2	< 0.115	NA	**0.221**	NA
Cadmium	78	78	2	ND	**0.196**	NA	**0.485**	NA
Calcium	NLE	NLE	NLE	921	**155**	NA	**1,400**	NA
Chromium	NLE	NLE	NLE	269	**3.61**	NA	**7.2**	NA
Cobalt	1,600	590	90	2.5	**0.257**	NA	**0.755**	NA
Copper	3,100	45,000	11,000	8	**10.3**	NA	**25.1**	NA
Iron	NLE	NLE	NLE	55,800	**507**	NA	**3,950**	NA
Lead	400	800	90	19.5	**5.81**	NA	**16.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**35.3**	NA	**89**	NA
Manganese	11,000	5,900	65	90.7	**2.44**	NA	**15.6**	NA
Mercury	23	65	0.1	ND	**0.169**	NA	**0.202**	NA
Nickel	1,600	23,000	48	8.4	**2.28**	NA	**3.32**	NA
Potassium	NLE	NLE	NLE	15,400	**59**	NA	**165**	NA
Selenium	390	5,700	11	1.9	< 0.692	NA	< 0.672	NA
Silver	390	5,700	1	1.1	< 0.692	NA	< 0.672	NA
Sodium	NLE	NLE	NLE	51.6	**98**	NA	**70.4**	NA
Thallium	5	79	3	ND	< 0.692	NA	< 0.672	NA
Vanadium	78	1,100	NLE	94.1	**3.26**	NA	**11**	NA
Zinc	23,000	110,000	930	81.4	**27.8**	NA	**22.7**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-198		FTMM02-B-199	FTMM02-B-199
Sample ID					FTMM02-SS-B-198-0-1.0	FTMM02-SS-B-198-2-2	FTMM02-SS-B-199-0-1.0	FTMM02-SS-B-199-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 640	NA	< 540
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 320	NA	< 270
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 640	NA	< 540
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 640	NA	< 540
Toluene	6,300,000	91,000,000	7,000	-	NA	< 320	NA	< 270
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**3,400**	NA	**3,000**
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	**240 J**	NA	**150 J**	NA
Benzo(a)pyrene	200	200	200	-	**210 J**	NA	**130 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**180 J**	NA	**120 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**150 J**	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**160 J**	NA	**110 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**120 JB**	NA	**120 JB**	NA
Chrysene	62,000	230,000	80,000	-	**520 J**	NA	**290 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**420 JB**	NA	**860 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**380 J**	NA	**280 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	**130 J**	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	**410 J**	NA	**240 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	**520 J**	NA	**300 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**25,480**	NA	**25,970**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-198		FTMM02-B-199	FTMM02-B-199
Sample ID					FTMM02-SS-B-198-0-1.0	FTMM02-SS-B-198-2-2	FTMM02-SS-B-199-0-1.0	FTMM02-SS-B-199-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.074**	NA	**0.17**	NA
4,4'-DDE	2	9	18	-	**0.075**	NA	**0.086**	NA
4,4'-DDT	2	8	11	-	**0.102**	NA	< 0.0258	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0118	NA	< 0.0117	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0118	NA	< 0.0117	NA
Endrin	23	340	1	-	< 0.0118	NA	< 0.0117	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0094	NA	< 0.0094	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0118	NA	< 0.0117	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3796	NA	< 0.3746	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1508	NA	< 0.1498	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0942	NA	< 0.0936	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0848	NA	< 0.0843	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**1,520**	NA	**1,510**	NA
Antimony	31	450	6	ND	**1.46**	NA	**0.915**	NA
Arsenic	19	19	19	22.9	**5.2**	NA	**8.96**	NA
Barium	16,000	59,000	2,100	32.3	**40.9**	NA	**38.5**	NA
Beryllium	16	140	0.7	2	**0.473**	NA	**0.85**	NA
Cadmium	78	78	2	ND	**0.524**	NA	**2.43**	NA
Calcium	NLE	NLE	NLE	921	**1,170**	NA	**711**	NA
Chromium	NLE	NLE	NLE	269	**21.7**	NA	**18.6**	NA
Cobalt	1,600	590	90	2.5	**0.593**	NA	**0.975**	NA
Copper	3,100	45,000	11,000	8	**10.2**	NA	**11.4**	NA
Iron	NLE	NLE	NLE	55,800	**7,270**	NA	**7,420**	NA
Lead	400	800	90	19.5	**25.3**	NA	**24.5**	NA
Magnesium	NLE	NLE	NLE	7,230	**95.9**	NA	**64.9**	NA
Manganese	11,000	5,900	65	90.7	**5.6**	NA	**6**	NA
Mercury	23	65	0.1	ND	**0.508**	NA	**0.294**	NA
Nickel	1,600	23,000	48	8.4	**3.31**	NA	**5.23**	NA
Potassium	NLE	NLE	NLE	15,400	**110**	NA	**141**	NA
Selenium	390	5,700	11	1.9	**1.04**	NA	**0.937**	NA
Silver	390	5,700	1	1.1	**1.84**	NA	**0.786**	NA
Sodium	NLE	NLE	NLE	51.6	**71.1**	NA	**70.8**	NA
Thallium	5	79	3	ND	< 0.746	NA	< 0.656	NA
Vanadium	78	1,100	NLE	94.1	**15**	NA	**14.9**	NA
Zinc	23,000	110,000	930	81.4	**26.3**	NA	**35.6**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-20		FTMM02-B-200	
Sample ID					FTMM02-SS-B-20-0-1.0	FTMM02-SS-B-20-2-2	FTMM02-SS-B-200-0-1.0	FTMM02-SS-B-200-2-2
Sample Date					2/24/1999	2/24/1999	6/1/1999	6/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 530	NA	< 540
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	NA	< 270
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 530	NA	< 540
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 530	NA	< 540
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	NA	< 270
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1000	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1000	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1000	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1000	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1000	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1000	NA	**140 J**	NA
Benzo(a)pyrene	200	200	200	-	< 1000	NA	**150 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1000	NA	**180 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1000	NA	**130 J**	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1000	NA	**130 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**160 J**	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	< 1000	NA	**310 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1000	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1000	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1000	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**680 JB**	NA	**270 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1000	NA	**260 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1000	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1000	NA	**120 J**	NA
Naphthalene	6,000	17,000	25,000	-	< 1000	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1000	NA	**130 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1000	NA	**260 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**10,150**	NA	**11,410**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-20		FTMM02-B-200	
Sample ID					FTMM02-SS-B-20-0-1.0	FTMM02-SS-B-20-2-2	FTMM02-SS-B-200-0-1.0	FTMM02-SS-B-200-2-2
Sample Date					2/24/1999	2/24/1999	6/1/1999	6/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.032**	NA	**0.207**	NA
4,4'-DDE	2	9	18	-	**0.012**	NA	**0.183**	NA
4,4'-DDT	2	8	11	-	< 0.0235	NA	**0.118**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0107	NA	< 0.0124	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0107	NA	**0.021**	NA
Endrin	23	340	1	-	< 0.0107	NA	< 0.0124	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0086	NA	< 0.0099	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0107	NA	< 0.0124	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3423	NA	< 0.0991	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1369	NA	< 0.0396	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0856	NA	< 0.0248	NA
Aroclor-1260	0.2	1	NLE	-	< 0.077	NA	< 0.0223	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**5,320**	NA	**1,120**	NA
Antimony	31	450	6	ND	**0.527**	NA	< 0.558	NA
Arsenic	19	19	19	22.9	**3.68**	NA	**6.85**	NA
Barium	16,000	59,000	2,100	32.3	**12.6**	NA	**22.9**	NA
Beryllium	16	140	0.7	2	**0.394**	NA	**0.289**	NA
Cadmium	78	78	2	ND	**0.248**	NA	**0.898**	NA
Calcium	NLE	NLE	NLE	921	**372**	NA	**1,290**	NA
Chromium	NLE	NLE	NLE	269	**29.7**	NA	**10.7**	NA
Cobalt	1,600	590	90	2.5	**1.08**	NA	**0.695**	NA
Copper	3,100	45,000	11,000	8	**69.8**	NA	**20.4**	NA
Iron	NLE	NLE	NLE	55,800	**12,000**	NA	**6,170**	NA
Lead	400	800	90	19.5	**27.7**	NA	**36.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**742**	NA	**145**	NA
Manganese	11,000	5,900	65	90.7	**13.2**	NA	**22.9**	NA
Mercury	23	65	0.1	ND	**0.04**	NA	**0.592**	NA
Nickel	1,600	23,000	48	8.4	**3.55**	NA	**3.85**	NA
Potassium	NLE	NLE	NLE	15,400	**1,530**	NA	**168**	NA
Selenium	390	5,700	11	1.9	< 0.636	NA	< 0.837	NA
Silver	390	5,700	1	1.1	< 0.636	NA	< 0.837	NA
Sodium	NLE	NLE	NLE	51.6	**223**	NA	**94.3**	NA
Thallium	5	79	3	ND	< 0.636	NA	< 0.837	NA
Vanadium	78	1,100	NLE	94.1	**23.7**	NA	**11.9**	NA
Zinc	23,000	110,000	930	81.4	**41**	NA	**58.7**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-201		FTMM02-B-202	FTMM02-B-202
Sample ID					FTMM02-SS-B-201-0-1.0	FTMM02-SS-B-201-2-2	FTMM02-SS-B-202-0-1.0	FTMM02-SS-B-202-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 540	NA	< 620
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	NA	< 310
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 540	NA	< 620
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 540	NA	< 620
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	NA	< 310
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	**180 J**	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	**160 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	**140 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	**120 J**	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	**150 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**110 JB**	NA	< 1100	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	**370 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**210 JB**	NA	**600 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	**340 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**260 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	**360 J**	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**6,420**	NA	**19,360**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-201		FTMM02-B-202	FTMM02-B-202
Sample ID					FTMM02-SS-B-201-0-1.0	FTMM02-SS-B-201-2-2	FTMM02-SS-B-202-0-1.0	FTMM02-SS-B-202-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	< 0.0124	NA	**0.091**	NA
4,4'-DDE	2	9	18	-	< 0.0083	NA	**0.08**	NA
4,4'-DDT	2	8	11	-	< 0.0228	NA	**0.067**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0103	NA	< 0.0117	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0103	NA	< 0.0117	NA
Endrin	23	340	1	-	< 0.0103	NA	< 0.0117	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0083	NA	< 0.0093	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0103	NA	< 0.0117	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3311	NA	< 0.3732	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1325	NA	< 0.1493	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0828	NA	< 0.0933	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0745	NA	< 0.084	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**499**	NA	**910**	NA
Antimony	31	450	6	ND	< 0.461	NA	< 0.524	NA
Arsenic	19	19	19	22.9	< 0.461	NA	**7.98**	NA
Barium	16,000	59,000	2,100	32.3	**6.43**	NA	**37.9**	NA
Beryllium	16	140	0.7	2	< 0.115	NA	**0.302**	NA
Cadmium	78	78	2	ND	**0.181**	NA	**0.733**	NA
Calcium	NLE	NLE	NLE	921	**482**	NA	**706**	NA
Chromium	NLE	NLE	NLE	269	**5.96**	NA	**49.1**	NA
Cobalt	1,600	590	90	2.5	< 0.115	NA	**1.29**	NA
Copper	3,100	45,000	11,000	8	**3.05**	NA	**7.64**	NA
Iron	NLE	NLE	NLE	55,800	**791**	NA	**6,040**	NA
Lead	400	800	90	19.5	**2.02**	NA	**18.5**	NA
Magnesium	NLE	NLE	NLE	7,230	**50.7**	NA	**287**	NA
Manganese	11,000	5,900	65	90.7	**3.66**	NA	**6.73**	NA
Mercury	23	65	0.1	ND	**0.265**	NA	**0.222**	NA
Nickel	1,600	23,000	48	8.4	**1.06**	NA	**410**	NA
Potassium	NLE	NLE	NLE	15,400	**139**	NA	**419**	NA
Selenium	390	5,700	11	1.9	< 0.691	NA	< 0.786	NA
Silver	390	5,700	1	1.1	< 0.691	NA	< 0.786	NA
Sodium	NLE	NLE	NLE	51.6	**158**	NA	**126**	NA
Thallium	5	79	3	ND	< 0.691	NA	< 0.786	NA
Vanadium	78	1,100	NLE	94.1	**3.52**	NA	**9.31**	NA
Zinc	23,000	110,000	930	81.4	**20.5**	NA	**53.9**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-203		FTMM02-B-204	
Sample ID					FTMM02-SS-B-203-0-1.0	FTMM02-SS-B-203-2-2	FTMM02-SS-B-204-0-1.0	FTMM02-SS-B-204-2-2
Sample Date					6/1/1999	6/1/1999	6/2/1999	6/2/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 560	NA	< 580
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 560	NA	< 580
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 560	NA	< 580
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 11000	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 11000	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 11000	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 11000	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 11000	NA
Benzo(a)anthracene	600	2,000	800	-	**380 J**	NA	< 11000	NA
Benzo(a)pyrene	200	200	200	-	**360 J**	NA	< 11000	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**350 J**	NA	< 11000	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**270 J**	NA	< 11000	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**300 J**	NA	< 11000	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**140 JB**	NA	< 11000	NA
Chrysene	62,000	230,000	80,000	-	**760 J**	NA	< 11000	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 11000	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 11000	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 11000	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**610 JB**	NA	< 11000	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**740 J**	NA	< 11000	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 11000	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	**240 J**	NA	< 11000	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 11000	NA
Phenanthrene	NLE	300,000,000	NLE	-	**470 J**	NA	< 11000	NA
Pyrene	1,700,000	18,000,000	840,000	-	**690 J**	NA	< 11000	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**27,680**	NA	**7,000**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-203		FTMM02-B-204	
Sample ID					FTMM02-SS-B-203-0-1.0	FTMM02-SS-B-203-2-2	FTMM02-SS-B-204-0-1.0	FTMM02-SS-B-204-2-2
Sample Date					6/1/1999	6/1/1999	6/2/1999	6/2/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.348**	NA	**0.101**	NA
4,4'-DDE	2	9	18	-	**0.234**	NA	**0.023**	NA
4,4'-DDT	2	8	11	-	**0.233**	NA	**0.027**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0109	NA	< 0.01	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0109	NA	**0.02**	NA
Endrin	23	340	1	-	< 0.0109	NA	< 0.01	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0087	NA	< 0.008	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0109	NA	< 0.01	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3479	NA	< 0.3199	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1392	NA	< 0.1279	NA
Aroclor-1254	0.2	1	NLE	-	< 0.087	NA	< 0.08	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0783	NA	< 0.072	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**5,860**	NA	**10,400**	NA
Antimony	31	450	6	ND	**0.658**	NA	**0.513**	NA
Arsenic	19	19	19	22.9	**7.34**	NA	**7.89**	NA
Barium	16,000	59,000	2,100	32.3	**33.9**	NA	**41.2**	NA
Beryllium	16	140	0.7	2	**0.929**	NA	**0.99**	NA
Cadmium	78	78	2	ND	**1.25**	NA	**1.21**	NA
Calcium	NLE	NLE	NLE	921	**653**	NA	**1,530**	NA
Chromium	NLE	NLE	NLE	269	**65.4**	NA	**83.1**	NA
Cobalt	1,600	590	90	2.5	**1.38**	NA	**3.77**	NA
Copper	3,100	45,000	11,000	8	**13.1**	NA	**25.1**	NA
Iron	NLE	NLE	NLE	55,800	**18,000**	NA	**30,100**	NA
Lead	400	800	90	19.5	**49**	NA	**22.8**	NA
Magnesium	NLE	NLE	NLE	7,230	**1,690**	NA	**3,400**	NA
Manganese	11,000	5,900	65	90.7	**25**	NA	**58.7**	NA
Mercury	23	65	0.1	ND	**0.413**	NA	**0.207**	NA
Nickel	1,600	23,000	48	8.4	**7.36**	NA	**11.7**	NA
Potassium	NLE	NLE	NLE	15,400	**3,490**	NA	**6,680**	NA
Selenium	390	5,700	11	1.9	**1.58**	NA	**1.33**	NA
Silver	390	5,700	1	1.1	< 0.666	NA	< 0.687	NA
Sodium	NLE	NLE	NLE	51.6	**113**	NA	**231**	NA
Thallium	5	79	3	ND	< 0.666	NA	< 0.687	NA
Vanadium	78	1,100	NLE	94.1	**34.7**	NA	**60.8**	NA
Zinc	23,000	110,000	930	81.4	**63.8**	NA	**63.9**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-205		FTMM02-B-206	FTMM02-B-206
Sample ID					FTMM02-SS-B-205-0-1.0	FTMM02-SS-B-205-2-2	FTMM02-SS-B-206-0-1.0	FTMM02-SS-B-206-0-1.0-Dup
Sample Date					6/2/1999	6/2/1999	6/2/1999	6/2/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	< 520	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 260	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 520	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 520	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 260	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	< 1000
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	< 1000
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	< 1000
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	< 1000
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	< 1000
Benzo(a)anthracene	600	2,000	800	-	**120 J**	NA	< 1100	< 1000
Benzo(a)pyrene	200	200	200	-	**110 J**	NA	< 1100	< 1000
Benzo(b)fluoranthene	600	2,000	2,000	-	**110 J**	NA	< 1100	< 1000
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	< 1000
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	< 1000
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**140 JB**	NA	< 1100	< 1000
Chrysene	62,000	230,000	80,000	-	**230 J**	NA	< 1100	< 1000
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	< 1000
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	< 1000
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	**190 J**	< 1000
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**200 JB**	NA	**190 JB**	**130 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**230 J**	NA	< 1100	< 1000
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	< 1000
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	< 1000
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	< 1000
Phenanthrene	NLE	300,000,000	NLE	-	**130 J**	NA	< 1100	< 1000
Pyrene	1,700,000	18,000,000	840,000	-	**200 J**	NA	< 1100	< 1000
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**10,570**	NA	**7,890**	**10,490**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-205		FTMM02-B-206	FTMM02-B-206
Sample ID					FTMM02-SS-B-205-0-1.0	FTMM02-SS-B-205-2-2	FTMM02-SS-B-206-0-1.0	FTMM02-SS-B-206-0-1.0-Dup
Sample Date					6/2/1999	6/2/1999	6/2/1999	6/2/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	**0.077**	NA	**0.03**	< 0.0128
4,4'-DDE	2	9	18	-	**0.094**	NA	**0.117**	**0.036**
4,4'-DDT	2	8	11	-	**0.055**	NA	**0.214**	**0.036**
Alpha-Chlordane	NLE	1	NLE	-	< 0.0104	NA	< 0.0105	< 0.0106
Dieldrin	0.04	0.2	0.003	-	**0.013**	NA	< 0.0105	< 0.0106
Endrin	23	340	1	-	< 0.0104	NA	< 0.0105	< 0.0106
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0084	NA	< 0.0084	< 0.0085
Gamma-Chlordane	0.2	1	NLE	-	< 0.0104	NA	< 0.0105	< 0.0106
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3341	NA	< 0.337	< 0.3404
Aroclor-1248	0.2	1	NLE	-	< 0.1336	NA	< 0.1348	< 0.1362
Aroclor-1254	0.2	1	NLE	-	< 0.0835	NA	< 0.0842	< 0.0851
Aroclor-1260	0.2	1	NLE	-	< 0.0752	NA	< 0.0758	< 0.0766
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	**9,730**	NA	**9,240**	**9,370**
Antimony	31	450	6	ND	**0.757**	NA	**0.629**	**0.598**
Arsenic	19	19	19	22.9	**10.3**	NA	**8.64**	**6.49**
Barium	16,000	59,000	2,100	32.3	**46.3**	NA	**29.7**	**23.3**
Beryllium	16	140	0.7	2	**0.873**	NA	**0.739**	**0.603**
Cadmium	78	78	2	ND	**1.62**	NA	**2.08**	**0.631**
Calcium	NLE	NLE	NLE	921	**1,050**	NA	**711**	**411**
Chromium	NLE	NLE	NLE	269	**67.9**	NA	**41.9**	**49.2**
Cobalt	1,600	590	90	2.5	**3.61**	NA	**2.81**	**2.23**
Copper	3,100	45,000	11,000	8	**9.47**	NA	**10.5**	**6.96**
Iron	NLE	NLE	NLE	55,800	**30,100**	NA	**19,300**	**19,700**
Lead	400	800	90	19.5	**23.1**	NA	**23.9**	**19.8**
Magnesium	NLE	NLE	NLE	7,230	**2,430**	NA	**1,730**	**1,500**
Manganese	11,000	5,900	65	90.7	**77.6**	NA	**115**	**68.8**
Mercury	23	65	0.1	ND	**0.292**	NA	**0.215**	**0.211**
Nickel	1,600	23,000	48	8.4	**10.3**	NA	**8.2**	**6.67**
Potassium	NLE	NLE	NLE	15,400	**5,290**	NA	**2,440**	**2,590**
Selenium	390	5,700	11	1.9	**1.09**	NA	**1.12**	**1.26**
Silver	390	5,700	1	1.1	< 0.673	NA	< 0.748	< 0.718
Sodium	NLE	NLE	NLE	51.6	**99.8**	NA	**334**	**74.7**
Thallium	5	79	3	ND	< 0.673	NA	< 0.748	< 0.718
Vanadium	78	1,100	NLE	94.1	**49.2**	NA	**35.2**	**40.8**
Zinc	23,000	110,000	930	81.4	**90.1**	NA	**48.5**	**34.9**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-206		FTMM02-B-207
Sample ID					FTMM02-SS-B-206-2-2	FTMM02-SS-B-206-2-2-Dup	FTMM02-SS-B-207-0-1.0
Sample Date					6/2/1999	6/2/1999	6/2/1999
Volatile Organic Compounds (µg/kg)							
Acetone	70,000,000	NLE	19,000	-	< 500	< 470	NA
Benzene	2,000	5,000	5	-	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 250	< 240	NA
Chloroform	600	2,000	400	-	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 500	< 470	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 500	< 470	NA
Toluene	6,300,000	91,000,000	7,000	-	< 250	< 240	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA
TIC VOCs (µg/kg)							
Total TIC, Volatile	NLE	NLE	NLE	-	ND	ND	NA
Semivolatile Organic Compounds (µg/kg)							
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	< 1100
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	< 1100
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	< 1100
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	< 1100
Azobenzene	NLE	NLE	NLE	-	NA	NA	< 1100
Benzo(a)anthracene	600	2,000	800	-	NA	NA	< 1100
Benzo(a)pyrene	200	200	200	-	NA	NA	< 1100
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	< 1100
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	< 1100
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	< 1100
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	**150 JB**
Chrysene	62,000	230,000	80,000	-	NA	NA	< 1100
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	< 1100
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	< 1100
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	< 1100
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	**220 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	**110 J**
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	< 1100
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	< 1100
Naphthalene	6,000	17,000	25,000	-	NA	NA	< 1100
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	< 1100
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	< 1100
TIC SVOCs (µg/kg)							
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	**9,000**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-206		FTMM02-B-207
Sample ID					FTMM02-SS-B-206-2-2	FTMM02-SS-B-206-2-2-Dup	FTMM02-SS-B-207-0-1.0
Sample Date					6/2/1999	6/2/1999	6/2/1999
Pesticides & PCBs (mg/kg)							
4,4'-DDD	3	13	4	-	NA	NA	**0.026**
4,4'-DDE	2	9	18	-	NA	NA	**0.077**
4,4'-DDT	2	8	11	-	NA	NA	**0.105**
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	< 0.0103
Dieldrin	0.04	0.2	0.003	-	NA	NA	< 0.0103
Endrin	23	340	1	-	NA	NA	< 0.0103
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	< 0.0082
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	< 0.0103
Pesticides & PCBs (mg/kg)							
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	< 0.3295
Aroclor-1248	0.2	1	NLE	-	NA	NA	< 0.1318
Aroclor-1254	0.2	1	NLE	-	NA	NA	< 0.0824
Aroclor-1260	0.2	1	NLE	-	NA	NA	< 0.0741
PCB (total)	0.2	1	0.2	-	NA	NA	NA
Inorganics (mg/kg)							
Aluminum	78,000	NLE	6,000	15,200	NA	NA	**8,230**
Antimony	31	450	6	ND	NA	NA	**0.657**
Arsenic	19	19	19	22.9	NA	NA	**7.18**
Barium	16,000	59,000	2,100	32.3	NA	NA	**27.9**
Beryllium	16	140	0.7	2	NA	NA	**0.659**
Cadmium	78	78	2	ND	NA	NA	**0.658**
Calcium	NLE	NLE	NLE	921	NA	NA	**959**
Chromium	NLE	NLE	NLE	269	NA	NA	**43.1**
Cobalt	1,600	590	90	2.5	NA	NA	**2.54**
Copper	3,100	45,000	11,000	8	NA	NA	**6.89**
Iron	NLE	NLE	NLE	55,800	NA	NA	**18,400**
Lead	400	800	90	19.5	NA	NA	**20.5**
Magnesium	NLE	NLE	NLE	7,230	NA	NA	**1,450**
Manganese	11,000	5,900	65	90.7	NA	NA	**93.1**
Mercury	23	65	0.1	ND	NA	NA	**0.242**
Nickel	1,600	23,000	48	8.4	NA	NA	**7.3**
Potassium	NLE	NLE	NLE	15,400	NA	NA	**2,340**
Selenium	390	5,700	11	1.9	NA	NA	**0.914**
Silver	390	5,700	1	1.1	NA	NA	< 0.694
Sodium	NLE	NLE	NLE	51.6	NA	NA	**110**
Thallium	5	79	3	ND	NA	NA	< 0.694
Vanadium	78	1,100	NLE	94.1	NA	NA	**37.5**
Zinc	23,000	110,000	930	81.4	NA	NA	**40.3**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-207	FTMM02-B-208		FTMM02-B-209	
Sample ID					FTMM02-SS-B-207-2-2	FTMM02-SS-B-208-0-1.0	FTMM02-SS-B-208-2-2	FTMM02-SS-B-209-0-1.0	FTMM02-SS-B-209-2-2
Sample Date					6/2/1999	6/2/1999	6/2/1999	6/2/1999	6/2/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 530	NA	< 530	NA	< 570
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 260	NA	< 270	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 530	NA	< 530	NA	< 570
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 530	NA	**1,100 B**	NA	**1,200 B**
Toluene	6,300,000	91,000,000	7,000	-	< 260	NA	< 270	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	**300 J**	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	**270 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	**240 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	**200 J**	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	**230 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**120 JB**	NA	**130 JB**	NA
Chrysene	62,000	230,000	80,000	-	NA	< 1100	NA	**610 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**650 JB**	NA	**510 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	< 1100	NA	**560 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	**170 J**	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1100	NA	**460 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	< 1100	NA	**600 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**11,300**	NA	ND	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-207	FTMM02-B-208		FTMM02-B-209	
Sample ID					FTMM02-SS-B-207-2-2	FTMM02-SS-B-208-0-1.0	FTMM02-SS-B-208-2-2	FTMM02-SS-B-209-0-1.0	FTMM02-SS-B-209-2-2
Sample Date					6/2/1999	6/2/1999	6/2/1999	6/2/1999	6/2/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	**0.015**	NA	**0.114**	NA
4,4'-DDE	2	9	18	-	NA	**0.012**	NA	**0.07**	NA
4,4'-DDT	2	8	11	-	NA	< 0.0222	NA	**0.037**	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0101	NA	< 0.0114	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0101	NA	< 0.0114	NA
Endrin	23	340	1	-	NA	< 0.0101	NA	< 0.0114	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0081	NA	< 0.0091	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0101	NA	< 0.0114	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3233	NA	< 0.3638	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1293	NA	< 0.1455	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0808	NA	< 0.091	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0727	NA	< 0.0819	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**6,530**	NA	**5,390**	NA
Antimony	31	450	6	ND	NA	**0.485**	NA	**1.18**	NA
Arsenic	19	19	19	22.9	NA	**5.16**	NA	**8.4**	NA
Barium	16,000	59,000	2,100	32.3	NA	**17.8**	NA	**44**	NA
Beryllium	16	140	0.7	2	NA	**0.607**	NA	**1.01**	NA
Cadmium	78	78	2	ND	NA	**0.79**	NA	**1.42**	NA
Calcium	NLE	NLE	NLE	921	NA	**323**	NA	**928**	NA
Chromium	NLE	NLE	NLE	269	NA	**50.6**	NA	**65.6**	NA
Cobalt	1,600	590	90	2.5	NA	**3.04**	NA	**2.03**	NA
Copper	3,100	45,000	11,000	8	NA	**344**	NA	**47.5**	NA
Iron	NLE	NLE	NLE	55,800	NA	**17,800**	NA	**18,500**	NA
Lead	400	800	90	19.5	NA	**15.7**	NA	**23.6**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**1,290**	NA	**1,610**	NA
Manganese	11,000	5,900	65	90.7	NA	**158**	NA	**20.5**	NA
Mercury	23	65	0.1	ND	NA	**1.017**	NA	**0.346**	NA
Nickel	1,600	23,000	48	8.4	NA	**6.82**	NA	**6.98**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**2,780**	NA	**3,360**	NA
Selenium	390	5,700	11	1.9	NA	**0.867**	NA	**1.26**	NA
Silver	390	5,700	1	1.1	NA	< 0.614	NA	< 0.774	NA
Sodium	NLE	NLE	NLE	51.6	NA	**75.4**	NA	**114**	NA
Thallium	5	79	3	ND	NA	< 0.614	NA	< 0.774	NA
Vanadium	78	1,100	NLE	94.1	NA	**35.5**	NA	**33.6**	NA
Zinc	23,000	110,000	930	81.4	NA	**112**	NA	**71.3**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-21		FTMM02-B-210		FTMM02-B-211
Sample ID					FTMM02-SS-B-21-0-1.0	FTMM02-SS-B-21-2-2	FTMM02-SS-B-210-0-1.0	FTMM02-SS-B-210-2-2	FTMM02-SS-B-211-0-1.0
Sample Date					2/24/1999	2/24/1999	6/2/1999	6/2/1999	6/2/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 550	NA	< 510	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 260	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 550	NA	< 510	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	**680**	NA	**1,000 B**	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 260	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**1,600**	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA	< 1100
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	300,000,000	NLE	-	**420 J**	NA	**160 J**	NA	**120 J**
Anthracene	17,000,000	30,000,000	2,400,000	-	**300 J**	NA	< 1100	NA	< 1100
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100
Benzo(a)anthracene	600	2,000	800	-	**2,700**	NA	**560 J**	NA	**310 J**
Benzo(a)pyrene	200	200	200	-	**2,900**	NA	**600 J**	NA	**300 J**
Benzo(b)fluoranthene	600	2,000	2,000	-	**4,500**	NA	**490 J**	NA	**260 J**
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**1,500**	NA	**380 J**	NA	**200 J**
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**3,100**	NA	**490 J**	NA	**230 J**
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**180 J**	NA	**120 JB**	NA	**150 JB**
Chrysene	62,000	230,000	80,000	-	**6,300**	NA	**1,100 J**	NA	**680 J**
Dibenz(a,h)anthracene	200	200	800	-	**810 J**	NA	**150 J**	NA	< 1100
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA	< 1100
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**1,300 B**	NA	**490 JB**	NA	**720 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**1,400**	NA	**730 J**	NA	**570 J**
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	**1,500**	NA	**350 J**	NA	**180 J**
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA	< 1100
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**450 J**	NA	**570 J**
Pyrene	1,700,000	18,000,000	840,000	-	**1,900**	NA	**840 J**	NA	**680 J**
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**18,060**	NA	**165,430**	NA	**139,130**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-21		FTMM02-B-210		FTMM02-B-211
Sample ID					FTMM02-SS-B-21-0-1.0	FTMM02-SS-B-21-2-2	FTMM02-SS-B-210-0-1.0	FTMM02-SS-B-210-2-2	FTMM02-SS-B-211-0-1.0
Sample Date					2/24/1999	2/24/1999	6/2/1999	6/2/1999	6/2/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.078**	NA	**0.071**	NA	**0.043**
4,4'-DDE	2	9	18	-	**0.128**	NA	**0.057**	NA	**0.058**
4,4'-DDT	2	8	11	-	**0.199**	NA	**0.037**	NA	**0.086**
Alpha-Chlordane	NLE	1	NLE	-	< 0.0115	NA	< 0.0111	NA	< 0.012
Dieldrin	0.04	0.2	0.003	-	< 0.0115	NA	< 0.0111	NA	< 0.012
Endrin	23	340	1	-	< 0.0115	NA	< 0.0111	NA	< 0.012
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0092	NA	< 0.0089	NA	< 0.0096
Gamma-Chlordane	0.2	1	NLE	-	< 0.0115	NA	< 0.0111	NA	< 0.012
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3675	NA	< 0.355	NA	< 0.3834
Aroclor-1248	0.2	1	NLE	-	< 0.147	NA	< 0.142	NA	< 0.1534
Aroclor-1254	0.2	1	NLE	-	< 0.0919	NA	< 0.0888	NA	< 0.0959
Aroclor-1260	0.2	1	NLE	-	< 0.0827	NA	< 0.0799	NA	< 0.0863
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**11,400**	NA	**7,020**	NA	**7,810**
Antimony	31	450	6	ND	**0.527**	NA	**0.734**	NA	**1.09**
Arsenic	19	19	19	22.9	**10.8**	NA	**6.11**	NA	**8.35**
Barium	16,000	59,000	2,100	32.3	**54.3**	NA	**42.3**	NA	**38.7**
Beryllium	16	140	0.7	2	**1.31**	NA	**1.35**	NA	**1.23**
Cadmium	78	78	2	ND	**0.181**	NA	**1.66**	NA	**1.7**
Calcium	NLE	NLE	NLE	921	**2,050**	NA	**532**	NA	**679**
Chromium	NLE	NLE	NLE	269	**145**	NA	**72**	NA	**76.3**
Cobalt	1,600	590	90	2.5	**1.55**	NA	**1.88**	NA	**2.19**
Copper	3,100	45,000	11,000	8	**71.5**	NA	**12.8**	NA	**15**
Iron	NLE	NLE	NLE	55,800	**35,900**	NA	**18,800**	NA	**28,800**
Lead	400	800	90	19.5	**62.4**	NA	**25**	NA	**31.8**
Magnesium	NLE	NLE	NLE	7,230	**4,990**	NA	**1,590**	NA	**1,680**
Manganese	11,000	5,900	65	90.7	**57.4**	NA	**22.2**	NA	**21.6**
Mercury	23	65	0.1	ND	**0.15**	NA	**0.287**	NA	**0.288**
Nickel	1,600	23,000	48	8.4	**6.69**	NA	**11**	NA	**8.69**
Potassium	NLE	NLE	NLE	15,400	**10,600**	NA	**2,980**	NA	**3,220**
Selenium	390	5,700	11	1.9	**0.977**	NA	**1.35**	NA	**2**
Silver	390	5,700	1	1.1	< 0.657	NA	< 0.765	NA	< 0.769
Sodium	NLE	NLE	NLE	51.6	**140**	NA	**165**	NA	**86.3**
Thallium	5	79	3	ND	< 0.657	NA	< 0.765	NA	**1.03**
Vanadium	78	1,100	NLE	94.1	**60.3**	NA	**39.7**	NA	**43**
Zinc	23,000	110,000	930	81.4	**140**	NA	**57.9**	NA	**45.5**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-211	FTMM02-B-25		FTMM02-B-26	
Sample ID					FTMM02-SS-B-211-2-2	FTMM02-SS-B-25-0-1.0	FTMM02-SS-B-25-2-2	FTMM02-SS-B-26-0-1.0	FTMM02-SS-B-26-2-2
Sample Date					6/2/1999	2/24/1999	2/24/1999	2/24/1999	2/24/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 590	NA	< 590	NA	< 570
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 290	NA	< 290	NA	< 280
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 590	NA	< 590	NA	< 570
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	**1,200 B**	NA	< 590	NA	< 570
Toluene	6,300,000	91,000,000	7,000	-	< 290	NA	< 290	NA	< 280
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	**2,900**	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	**140 J**	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	**170 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	**200 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	**120 J**	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	**170 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**220 J**	NA	**200 J**	NA
Chrysene	62,000	230,000	80,000	-	NA	< 1100	NA	**310 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**1,100 JB**	NA	**210 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	< 1100	NA	**240 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1100	NA	**140 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	< 1100	NA	**260 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**8,200**	NA	**13,900**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-211	FTMM02-B-25		FTMM02-B-26	
Sample ID					FTMM02-SS-B-211-2-2	FTMM02-SS-B-25-0-1.0	FTMM02-SS-B-25-2-2	FTMM02-SS-B-26-0-1.0	FTMM02-SS-B-26-2-2
Sample Date					6/2/1999	2/24/1999	2/24/1999	2/24/1999	2/24/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	< 0.0143	NA	**0.086**	NA
4,4'-DDE	2	9	18	-	NA	**0.063**	NA	**0.22**	NA
4,4'-DDT	2	8	11	-	NA	**0.092**	NA	**0.61**	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0119	NA	< 0.0114	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0119	NA	< 0.0114	NA
Endrin	23	340	1	-	NA	< 0.0119	NA	< 0.0114	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0095	NA	< 0.0091	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0119	NA	< 0.0114	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3805	NA	< 0.3659	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1522	NA	< 0.1464	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0951	NA	< 0.0915	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0856	NA	< 0.0823	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**16,300**	NA	**9,000**	NA
Antimony	31	450	6	ND	NA	**0.492**	NA	**0.555**	NA
Arsenic	19	19	19	22.9	NA	**19**	NA	**10.2**	NA
Barium	16,000	59,000	2,100	32.3	NA	**28**	NA	**45.6**	NA
Beryllium	16	140	0.7	2	NA	**1.53**	NA	**0.954**	NA
Cadmium	78	78	2	ND	NA	< 0.12	NA	**505**	NA
Calcium	NLE	NLE	NLE	921	NA	**434**	NA	**2,680**	NA
Chromium	NLE	NLE	NLE	269	NA	**153**	NA	**98.7**	NA
Cobalt	1,600	590	90	2.5	NA	**1.86**	NA	**3.33**	NA
Copper	3,100	45,000	11,000	8	NA	**72.6**	NA	**161**	NA
Iron	NLE	NLE	NLE	55,800	NA	**42,600**	NA	**29,900**	NA
Lead	400	800	90	19.5	NA	**31.6**	NA	**80.1**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**5,230**	NA	**4,670**	NA
Manganese	11,000	5,900	65	90.7	NA	**51.1**	NA	**117**	NA
Mercury	23	65	0.1	ND	NA	**0.05**	NA	**0.24**	NA
Nickel	1,600	23,000	48	8.4	NA	**7.38**	NA	**9.68**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**11,200**	NA	**7,280**	NA
Selenium	390	5,700	11	1.9	NA	**1.29**	NA	**0.863**	NA
Silver	390	5,700	1	1.1	NA	< 0.718	NA	< 0.682	NA
Sodium	NLE	NLE	NLE	51.6	NA	**155**	NA	**236**	NA
Thallium	5	79	3	ND	NA	< 0.718	NA	< 0.682	NA
Vanadium	78	1,100	NLE	94.1	NA	**81.9**	NA	**53.3**	NA
Zinc	23,000	110,000	930	81.4	NA	**50.4**	NA	**102**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-27		FTMM02-B-31		FTMM02-B-32	
Sample ID					FTMM02-SS-B-27-0-1.0	FTMM02-SS-B-27-2-2	FTMM02-SS-B-31-0-1.0	FTMM02-SS-B-31-2-2	FTMM02-SS-B-32-0-1.0	FTMM02-SS-B-32-2-2
Sample Date					2/24/1999	2/24/1999	3/8/1999	3/8/1999	3/8/1999	3/8/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	NA	< 700	NA	< 910	NA	< 750
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 350	NA	< 460	NA	< 380
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 700	NA	< 910	NA	< 750
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 700	NA	**8,100**	NA	**1,500**
Toluene	6,300,000	91,000,000	7,000	-	NA	< 350	NA	< 460	NA	< 380
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1600	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1600	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1600	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1600	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1600	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	**150 J**	NA	**340 J**	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	**190 J**	NA	**390 J**	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**220 J**	NA	**340 J**	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**120 J**	NA	**200 J**	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**280 J**	NA	**400 J**	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**280 J**	NA	**530 JB**	NA	**130 JB**	NA
Chrysene	62,000	230,000	80,000	-	**340 J**	NA	**680 J**	NA	**170 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1600	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1600	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	**110 J**	NA	**320 JB**	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**290 JB**	NA	**1,200 JB**	NA	**640 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**220 J**	NA	**600 J**	NA	**170 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1600	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	**120 J**	NA	**210 J**	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	**640 J**	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**320 J**	NA	**110 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	**230 J**	NA	**670 J**	NA	**150 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**7,400**	NA	**38,900**	NA	**13,730**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-27		FTMM02-B-31		FTMM02-B-32	
Sample ID					FTMM02-SS-B-27-0-1.0	FTMM02-SS-B-27-2-2	FTMM02-SS-B-31-0-1.0	FTMM02-SS-B-31-2-2	FTMM02-SS-B-32-0-1.0	FTMM02-SS-B-32-2-2
Sample Date					2/24/1999	2/24/1999	3/8/1999	3/8/1999	3/8/1999	3/8/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	**0.021**	NA	**0.042**	NA	**0.092**	NA
4,4'-DDE	2	9	18	-	**0.05**	NA	**0.052**	NA	**0.041**	NA
4,4'-DDT	2	8	11	-	**0.064**	NA	**0.044**	NA	**0.037**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0109	NA	< 0.0159	NA	< 0.0113	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0109	NA	**0.04**	NA	**0.014**	NA
Endrin	23	340	1	-	< 0.0109	NA	< 0.0159	NA	< 0.0113	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0088	NA	< 0.0128	NA	< 0.0091	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0109	NA	< 0.0159	NA	< 0.0113	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3501	NA	< 0.5101	NA	< 0.3627	NA
Aroclor-1248	0.2	1	NLE	-	< 0.14	NA	< 0.204	NA	< 0.1451	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0875	NA	< 0.1275	NA	< 0.0907	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0788	NA	< 0.1148	NA	< 0.0816	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	**7,550**	NA	**25,400**	NA	**10,400**	NA
Antimony	31	450	6	ND	**0.54**	NA	**2.48**	NA	**2.31**	NA
Arsenic	19	19	19	22.9	**8.33**	NA	**37.7**	NA	**10.2**	NA
Barium	16,000	59,000	2,100	32.3	**40**	NA	**226**	NA	**40.6**	NA
Beryllium	16	140	0.7	2	**0.823**	NA	**7.22**	NA	**1.25**	NA
Cadmium	78	78	2	ND	**0.58**	NA	**11.4**	NA	**0.917**	NA
Calcium	NLE	NLE	NLE	921	**1,970**	NA	**2,750**	NA	**1,500**	NA
Chromium	NLE	NLE	NLE	269	**76.8**	NA	**165**	NA	**379**	NA
Cobalt	1,600	590	90	2.5	**1.56**	NA	**35.9**	NA	**2.46**	NA
Copper	3,100	45,000	11,000	8	**64.2**	NA	**337**	NA	**153**	NA
Iron	NLE	NLE	NLE	55,800	**24,500**	NA	**118,000**	NA	**25,900**	NA
Lead	400	800	90	19.5	**38.4**	NA	**163**	NA	**897**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,820**	NA	**3,740**	NA	**2,480**	NA
Manganese	11,000	5,900	65	90.7	**65.4**	NA	**775**	NA	**23.5**	NA
Mercury	23	65	0.1	ND	**0.13**	NA	**1.87**	NA	**1.07**	NA
Nickel	1,600	23,000	48	8.4	**5.39**	NA	**100**	NA	**14.1**	NA
Potassium	NLE	NLE	NLE	15,400	**5,980**	NA	**7,240**	NA	**5,350**	NA
Selenium	390	5,700	11	1.9	**0.982**	NA	**3.72**	NA	**0.704**	NA
Silver	390	5,700	1	1.1	< 0.695	NA	< 0.88	NA	**1.15**	NA
Sodium	NLE	NLE	NLE	51.6	**126**	NA	**233**	NA	**208**	NA
Thallium	5	79	3	ND	< 0.695	NA	< 0.88	NA	< 0.651	NA
Vanadium	78	1,100	NLE	94.1	**41.5**	NA	**123**	NA	**49.7**	NA
Zinc	23,000	110,000	930	81.4	**66.9**	NA	**683**	NA	**106**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-33		FTMM02-B-34		FTMM02-B-35	
Sample ID					FTMM02-SS-B-33-0-1.0	FTMM02-SS-B-33-2-2	FTMM02-SS-B-34-0-1.0	FTMM02-SS-B-34-2-2	FTMM02-SS-B-35-0-1.0	FTMM02-SS-B-35-2-2
Sample Date					3/8/1999	3/8/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	NA	< 570	NA	< 590	NA	< 640
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 290	NA	**1,500**
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 570	NA	< 590	NA	< 640
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	**1,800**	NA	**1,200**	NA	< 640
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 290	NA	< 320
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	**180 J**	NA	< 1100	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	**190 J**	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**170 J**	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**120 J**	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**180 J**	NA	< 1100	NA	**120 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**200 JB**	NA	**190 JB**	NA	**180 JB**	NA
Chrysene	62,000	230,000	80,000	-	**360 J**	NA	**160 J**	NA	**170 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**580 JB**	NA	**360 JB**	NA	**620 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**420 J**	NA	**140 J**	NA	**190 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	**240 J**	NA	< 1100	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	**370 J**	NA	**150 J**	NA	**150 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**4,950**	NA	**4,000**	NA	**6,490**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-33		FTMM02-B-34		FTMM02-B-35	
Sample ID					FTMM02-SS-B-33-0-1.0	FTMM02-SS-B-33-2-2	FTMM02-SS-B-34-0-1.0	FTMM02-SS-B-34-2-2	FTMM02-SS-B-35-0-1.0	FTMM02-SS-B-35-2-2
Sample Date					3/8/1999	3/8/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	**0.022**	NA	**0.031**	NA	< 0.0133	NA
4,4'-DDE	2	9	18	-	**0.015**	NA	**0.028**	NA	**0.02**	NA
4,4'-DDT	2	8	11	-	< 0.0239	NA	< 0.024	NA	< 0.0244	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0108	NA	< 0.0109	NA	< 0.0111	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0108	NA	< 0.0109	NA	< 0.0111	NA
Endrin	23	340	1	-	< 0.0108	NA	< 0.0109	NA	< 0.0111	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0087	NA	< 0.0087	NA	< 0.0089	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0108	NA	< 0.0109	NA	< 0.0111	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3471	NA	< 0.3488	NA	< 0.3548	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1388	NA	< 0.1395	NA	< 0.1419	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0868	NA	< 0.0872	NA	< 0.0887	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0781	NA	< 0.0785	NA	< 0.0798	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	**13,000**	NA	**9,360**	NA	**7,460**	NA
Antimony	31	450	6	ND	< 0.508	NA	< 0.441	NA	< 0.406	NA
Arsenic	19	19	19	22.9	**16.3**	NA	**11**	NA	**7.62**	NA
Barium	16,000	59,000	2,100	32.3	**73.1**	NA	**109**	NA	**22.2**	NA
Beryllium	16	140	0.7	2	**1.85**	NA	**1.42**	NA	**0.649**	NA
Cadmium	78	78	2	ND	< 0.127	NA	< 0.11	NA	**0.207**	NA
Calcium	NLE	NLE	NLE	921	**958**	NA	**1,320**	NA	**885**	NA
Chromium	NLE	NLE	NLE	269	**228**	NA	**156**	NA	**66.1**	NA
Cobalt	1,600	590	90	2.5	**0.948**	NA	**1.2**	NA	**1.45**	NA
Copper	3,100	45,000	11,000	8	**66.5**	NA	**48.2**	NA	**44**	NA
Iron	NLE	NLE	NLE	55,800	**51,200**	NA	**34,500**	NA	**18,900**	NA
Lead	400	800	90	19.5	**20.6**	NA	**9.81**	NA	**18.6**	NA
Magnesium	NLE	NLE	NLE	7,230	**7,330**	NA	**4,770**	NA	**1,700**	NA
Manganese	11,000	5,900	65	90.7	**24.7**	NA	**28.5**	NA	**41.9**	NA
Mercury	23	65	0.1	ND	**0.04**	NA	**0.04**	NA	**0.09**	NA
Nickel	1,600	23,000	48	8.4	**4.79**	NA	**5.19**	NA	**5.08**	NA
Potassium	NLE	NLE	NLE	15,400	**17,800**	NA	**11,200**	NA	**4,040**	NA
Selenium	390	5,700	11	1.9	**1.4**	NA	**1.09**	NA	< 0.609	NA
Silver	390	5,700	1	1.1	< 0.762	NA	< 0.662	NA	< 0.609	NA
Sodium	NLE	NLE	NLE	51.6	**128**	NA	**141**	NA	**194**	NA
Thallium	5	79	3	ND	< 0.762	NA	< 0.662	NA	< 0.609	NA
Vanadium	78	1,100	NLE	94.1	**82.4**	NA	**51.7**	NA	**51.2**	NA
Zinc	23,000	110,000	930	81.4	**72.6**	NA	**65.4**	NA	**44.6**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-36		FTMM02-B-37		FTMM02-B-38	
Sample ID					FTMM02-SS-B-36-0-1.0	FTMM02-SS-B-36-2-2	FTMM02-SS-B-37-0-1.0	FTMM02-SS-B-37-2-2	FTMM02-SS-B-38-0-1.0	FTMM02-SS-B-38-2-2
Sample Date					3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/10/1999	3/10/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	NA	< 570	NA	< 600	NA	< 570
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 300	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 570	NA	< 600	NA	< 570
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 570	NA	< 600	NA	< 570
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 300	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1200	NA	< 1200	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	NA	NA	< 1200	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA	< 1200	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	NA	NA	< 1200	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	NA	NA	< 1200	NA
Benzo(a)anthracene	600	2,000	800	-	**200 J**	NA	NA	NA	**120 J**	NA
Benzo(a)pyrene	200	200	200	-	**210 J**	NA	NA	NA	**120 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**210 J**	NA	NA	NA	< 1200	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**140 J**	NA	NA	NA	< 1200	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**180 J**	NA	NA	NA	**120 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**290 JB**	NA	NA	NA	**220 JB**	NA
Chrysene	62,000	230,000	80,000	-	**350 J**	NA	NA	NA	**280 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	NA	NA	< 1200	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	NA	NA	< 1200	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	NA	NA	< 1200	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**600 JB**	NA	NA	NA	**1,600 B**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**460 J**	NA	NA	NA	**200 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	NA	NA	< 1200	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	**140 J**	NA	NA	NA	< 1200	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1200	NA	< 1200	NA
Phenanthrene	NLE	300,000,000	NLE	-	**300 J**	NA	NA	NA	**230 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	**370 J**	NA	NA	NA	**270 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**13,400**	NA	**5,400**	NA	**8,100**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-36		FTMM02-B-37		FTMM02-B-38	
Sample ID					FTMM02-SS-B-36-0-1.0	FTMM02-SS-B-36-2-2	FTMM02-SS-B-37-0-1.0	FTMM02-SS-B-37-2-2	FTMM02-SS-B-38-0-1.0	FTMM02-SS-B-38-2-2
Sample Date					3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/10/1999	3/10/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	**0.062**	NA	< 0.0135	NA	**0.035**	NA
4,4'-DDE	2	9	18	-	**0.027**	NA	< 0.009	NA	**0.048**	NA
4,4'-DDT	2	8	11	-	**0.126**	NA	< 0.0247	NA	**0.187**	NA
Alpha-Chlordane	NLE	1	NLE	-	**0.024**	NA	< 0.0112	NA	< 0.0111	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0105	NA	< 0.0112	NA	< 0.0111	NA
Endrin	23	340	1	-	< 0.0105	NA	< 0.0112	NA	< 0.0111	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0084	NA	< 0.009	NA	< 0.0089	NA
Gamma-Chlordane	0.2	1	NLE	-	**0.029**	NA	< 0.0112	NA	< 0.0111	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3371	NA	< 0.3597	NA	< 0.3559	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1348	NA	< 0.1439	NA	< 0.1424	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0843	NA	< 0.0899	NA	< 0.0809	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0758	NA	< 0.0809	NA	< 0.0801	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	**4,470**	NA	**5,850**	NA	**9,820**	NA
Antimony	31	450	6	ND	**0.698**	NA	**0.571**	NA	< 0.468	NA
Arsenic	19	19	19	22.9	**5.81**	NA	**4.3**	NA	**11.4**	NA
Barium	16,000	59,000	2,100	32.3	**15.8**	NA	**22.1**	NA	**54.1**	NA
Beryllium	16	140	0.7	2	**0.366**	NA	**0.504**	NA	**1.31**	NA
Cadmium	78	78	2	ND	**0.322**	NA	**4.97**	NA	**26.3**	NA
Calcium	NLE	NLE	NLE	921	**767**	NA	**461**	NA	**1,050**	NA
Chromium	NLE	NLE	NLE	269	**40.7**	NA	**49.7**	NA	**132**	NA
Cobalt	1,600	590	90	2.5	**1.13**	NA	**1.09**	NA	**1.31**	NA
Copper	3,100	45,000	11,000	8	**45.6**	NA	**43.2**	NA	**54.8**	NA
Iron	NLE	NLE	NLE	55,800	**13,400**	NA	**14,400**	NA	**30,800**	NA
Lead	400	800	90	19.5	**16.4**	NA	**3.88**	NA	**17.3**	NA
Magnesium	NLE	NLE	NLE	7,230	**726**	NA	**1,520**	NA	**3,950**	NA
Manganese	11,000	5,900	65	90.7	**21.2**	NA	**20.1**	NA	**32.5**	NA
Mercury	23	65	0.1	ND	**0.05**	NA	**0.04**	NA	**0.08**	NA
Nickel	1,600	23,000	48	8.4	**4.57**	NA	**3.04**	NA	**4.87**	NA
Potassium	NLE	NLE	NLE	15,400	**1,450**	NA	**3,400**	NA	**9,150**	NA
Selenium	390	5,700	11	1.9	< 0.675	NA	< 0.781	NA	**1.13**	NA
Silver	390	5,700	1	1.1	< 0.675	NA	< 0.781	NA	< 0.701	NA
Sodium	NLE	NLE	NLE	51.6	**96.8**	NA	**75.9**	NA	**124**	NA
Thallium	5	79	3	ND	< 0.675	NA	< 0.781	NA	< 0.701	NA
Vanadium	78	1,100	NLE	94.1	**37.5**	NA	**28.7**	NA	**58.6**	NA
Zinc	23,000	110,000	930	81.4	**38.2**	NA	**20.8**	NA	**57.4**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-39		FTMM02-B-4		FTMM02-B-40	
Sample ID					FTMM02-SS-B-39-0-1.0	FTMM02-SS-B-39-2-2	FTMM02-SS-B-4-0-1.0	FTMM02-SS-B-4-2-2	FTMM02-SS-B-40-0-1.0	FTMM02-SS-B-40-2-2
Sample Date					3/10/1999	3/10/1999	2/19/1999	2/19/1999	3/10/1999	3/10/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	NA	< 560	NA	< 590	NA	< 550
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 300	NA	< 280
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 560	NA	< 590	NA	< 550
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 560	NA	**870**	NA	< 550
Toluene	6,300,000	91,000,000	7,000	-	NA	**580**	NA	< 300	NA	< 280
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1200	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1200	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1200	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1200	NA	**110 J**	NA
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1200	NA	**120 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1200	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1200	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1200	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	**230 JB**	NA	**140 JB**	NA
Chrysene	62,000	230,000	80,000	-	< 1100	NA	< 1200	NA	**240 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1200	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1200	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**890 JB**	NA	**280 JB**	NA	**400 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	< 1200	NA	**210 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1200	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1200	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1200	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA	**180 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	< 1200	NA	**250 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**6,820**	NA	**3,800**	NA	**6,800**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-39		FTMM02-B-4		FTMM02-B-40	
Sample ID					FTMM02-SS-B-39-0-1.0	FTMM02-SS-B-39-2-2	FTMM02-SS-B-4-0-1.0	FTMM02-SS-B-4-2-2	FTMM02-SS-B-40-0-1.0	FTMM02-SS-B-40-2-2
Sample Date					3/10/1999	3/10/1999	2/19/1999	2/19/1999	3/10/1999	3/10/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	**0.022**	NA	< 0.0132	NA	**0.087**	NA
4,4'-DDE	2	9	18	-	**0.015**	NA	< 0.0088	NA	**0.083**	NA
4,4'-DDT	2	8	11	-	< 0.0231	NA	< 0.0243	NA	< 0.0228	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0105	NA	< 0.011	NA	< 0.0104	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0105	NA	< 0.011	NA	< 0.0104	NA
Endrin	23	340	1	-	< 0.0105	NA	< 0.011	NA	< 0.0104	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0084	NA	< 0.0088	NA	< 0.0083	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0105	NA	< 0.011	NA	< 0.0104	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3357	NA	< 0.3529	NA	< 0.3316	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1343	NA	< 0.1412	NA	< 0.1326	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0839	NA	**1**	NA	< 0.0829	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0755	NA	< 0.0794	NA	< 0.0746	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	**18,400**	NA	**8,220**	NA	**9,770**	NA
Antimony	31	450	6	ND	< 0.444	NA	**1.1**	NA	< 0.456	NA
Arsenic	19	19	19	22.9	**11.7**	NA	**8.01**	NA	**10.3**	NA
Barium	16,000	59,000	2,100	32.3	**117**	NA	**29.6**	NA	**64.3**	NA
Beryllium	16	140	0.7	2	**2.71**	NA	**0.871**	NA	**1.39**	NA
Cadmium	78	78	2	ND	**0.166**	NA	**0.245**	NA	**1.17**	NA
Calcium	NLE	NLE	NLE	921	**1,810**	NA	**521**	NA	**4,230**	NA
Chromium	NLE	NLE	NLE	269	**326**	NA	**99.3**	NA	**143**	NA
Cobalt	1,600	590	90	2.5	**0.756**	NA	**2.1**	NA	**1.73**	NA
Copper	3,100	45,000	11,000	8	**43.6**	NA	**41.3**	NA	**45.7**	NA
Iron	NLE	NLE	NLE	55,800	**60,200**	NA	**26,000**	NA	**31,900**	NA
Lead	400	800	90	19.5	**4.27**	NA	**31.7**	NA	**19.2**	NA
Magnesium	NLE	NLE	NLE	7,230	**10,600**	NA	**1,930**	NA	**4,410**	NA
Manganese	11,000	5,900	65	90.7	**33.1**	NA	**51.5**	NA	**27.3**	NA
Mercury	23	65	0.1	ND	**0.03**	NA	**1.58**	NA	**0.07**	NA
Nickel	1,600	23,000	48	8.4	**5.1**	NA	**6.59**	NA	**8.43**	NA
Potassium	NLE	NLE	NLE	15,400	**25,800**	NA	**4,450**	NA	**10,300**	NA
Selenium	390	5,700	11	1.9	**2.01**	NA	**1.03**	NA	**1.07**	NA
Silver	390	5,700	1	1.1	< 0.666	NA	< 0.662	NA	< 0.683	NA
Sodium	NLE	NLE	NLE	51.6	**243**	NA	**171**	NA	**188**	NA
Thallium	5	79	3	ND	< 0.666	NA	< 0.662	NA	< 0.683	NA
Vanadium	78	1,100	NLE	94.1	**116**	NA	**78.9**	NA	**58.4**	NA
Zinc	23,000	110,000	930	81.4	**122**	NA	**122**	NA	**61.5**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-41		FTMM02-B-42		FTMM02-B-43	
Sample ID					FTMM02-SS-B-41-0-1.0	FTMM02-SS-B-41-2-2	FTMM02-SS-B-42-0-1.0	FTMM02-SS-B-42-2-2	FTMM02-SS-B-43-0-1.0	FTMM02-SS-B-43-2-2
Sample Date					3/10/1999	3/10/1999	3/10/1999	3/10/1999	3/11/1999	3/11/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	NA	< 540	NA	< 570	NA	< 640
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	NA	< 280	NA	< 320
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 540	NA	< 570	NA	< 640
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 540	NA	< 570	NA	< 640
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	NA	< 280	NA	< 320
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1200	NA	< 1200	NA	< 1200	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1200	NA	< 1200	NA	< 1200	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1200	NA	**210 J**	NA	< 1200	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1200	NA	**700 J**	NA	< 1200	NA
Azobenzene	NLE	NLE	NLE	-	< 1200	NA	< 1200	NA	< 1200	NA
Benzo(a)anthracene	600	2,000	800	-	< 1200	NA	**2,200**	NA	< 1200	NA
Benzo(a)pyrene	200	200	200	-	< 1200	NA	**2,200**	NA	**140 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1200	NA	**2,100**	NA	< 1200	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1200	NA	**1,300**	NA	< 1200	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1200	NA	**1,800**	NA	< 1200	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**140 JB**	NA	**150 JB**	NA	**150 JB**	NA
Chrysene	62,000	230,000	80,000	-	**200 J**	NA	**3,700**	NA	**190 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1200	NA	**640 J**	NA	< 1200	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1200	NA	< 1200	NA	< 1200	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1200	NA	< 1200	NA	< 1200	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**1,100 JB**	NA	**330 JB**	NA	**980 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**170 J**	NA	**5,500**	NA	**130 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1200	NA	**160 J**	NA	< 1200	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1200	NA	**1,300**	NA	< 1200	NA
Naphthalene	6,000	17,000	25,000	-	< 1200	NA	< 1200	NA	< 1200	NA
Phenanthrene	NLE	300,000,000	NLE	-	**150 J**	NA	**2,400**	NA	< 1200	NA
Pyrene	1,700,000	18,000,000	840,000	-	**190 J**	NA	**4,100**	NA	**150 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**8,000**	NA	**4,500**	NA	**12,480**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-41		FTMM02-B-42		FTMM02-B-43	
Sample ID					FTMM02-SS-B-41-0-1.0	FTMM02-SS-B-41-2-2	FTMM02-SS-B-42-0-1.0	FTMM02-SS-B-42-2-2	FTMM02-SS-B-43-0-1.0	FTMM02-SS-B-43-2-2
Sample Date					3/10/1999	3/10/1999	3/10/1999	3/10/1999	3/11/1999	3/11/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	**0.059**	NA	**0.023**	NA	**0.173**	NA
4,4'-DDE	2	9	18	-	**0.04**	NA	**0.029**	NA	**0.078**	NA
4,4'-DDT	2	8	11	-	< 0.0254	NA	< 0.0255	NA	**0.047**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0116	NA	< 0.0116	NA	< 0.0115	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0116	NA	< 0.0116	NA	**0.091**	NA
Endrin	23	340	1	-	< 0.0116	NA	< 0.0116	NA	< 0.0115	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0092	NA	< 0.0093	NA	< 0.0092	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0116	NA	**0.013**	NA	< 0.0115	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3698	NA	< 0.3712	NA	< 0.3687	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1479	NA	< 0.1485	NA	< 0.1475	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0924	NA	< 0.0928	NA	< 0.0922	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0832	NA	< 0.0835	NA	< 0.083	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	**8,030**	NA	**12,200**	NA	**12,200**	NA
Antimony	31	450	6	ND	< 0.483	NA	< 0.474	NA	**1.34**	NA
Arsenic	19	19	19	22.9	**10.3**	NA	**13.5**	NA	**7.23**	NA
Barium	16,000	59,000	2,100	32.3	**58.1**	NA	**77.8**	NA	**34.6**	NA
Beryllium	16	140	0.7	2	**1.11**	NA	**1.81**	NA	**1.73**	NA
Cadmium	78	78	2	ND	< 0.121	NA	< 0.119	NA	< 0.112	NA
Calcium	NLE	NLE	NLE	921	**862**	NA	**1,630**	NA	**1,260**	NA
Chromium	NLE	NLE	NLE	269	**125**	NA	**191**	NA	**160**	NA
Cobalt	1,600	590	90	2.5	**1.45**	NA	**1.72**	NA	**1.14**	NA
Copper	3,100	45,000	11,000	8	**41.2**	NA	**46.2**	NA	**383**	NA
Iron	NLE	NLE	NLE	55,800	**31,700**	NA	**44,000**	NA	**36,600**	NA
Lead	400	800	90	19.5	**26.4**	NA	**17.8**	NA	**38.1**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,860**	NA	**6,130**	NA	**5,030**	NA
Manganese	11,000	5,900	65	90.7	**17.9**	NA	**42.7**	NA	**14.7**	NA
Mercury	23	65	0.1	ND	**0.05**	NA	**0.03**	NA	**0.39**	NA
Nickel	1,600	23,000	48	8.4	**9.16**	NA	**6.54**	NA	**6.95**	NA
Potassium	NLE	NLE	NLE	15,400	**8,540**	NA	**14,400**	NA	**12,200**	NA
Selenium	390	5,700	11	1.9	**1.19**	NA	**1.25**	NA	< 0.673	NA
Silver	390	5,700	1	1.1	< 0.725	NA	< 0.712	NA	< 0.673	NA
Sodium	NLE	NLE	NLE	51.6	**124**	NA	**176**	NA	**106**	NA
Thallium	5	79	3	ND	< 0.725	NA	< 0.712	NA	< 0.673	NA
Vanadium	78	1,100	NLE	94.1	**49.8**	NA	**70.6**	NA	**74.4**	NA
Zinc	23,000	110,000	930	81.4	**41.6**	NA	**95.6**	NA	**48.7**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-44		FTMM02-B-45		FTMM02-B-46	
Sample ID					FTMM02-SS-B-44-0-1.0	FTMM02-SS-B-44-2-2	FTMM02-SS-B-45-0-1.0	FTMM02-SS-B-45-2-2	FTMM02-SS-B-46-0-1.0	FTMM02-SS-B-46-2-2
Sample Date					3/11/1999	3/11/1999	3/16/1999	3/16/1999	3/16/1999	3/16/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	NA	< 530	NA	< 590	NA	< 660
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 260	NA	< 300	NA	< 330
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 530	NA	< 590	NA	< 660
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 530	NA	< 590	NA	< 660
Toluene	6,300,000	91,000,000	7,000	-	NA	< 260	NA	< 300	NA	< 330
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1200	NA	< 1100	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	**160 J**	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1200	NA	< 1100	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	**350 J**	NA	< 1100	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1200	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	**840 J**	NA	**190 J**	NA	**190 J**	NA
Benzo(a)pyrene	200	200	200	-	**860 J**	NA	**210 J**	NA	**170 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**700 J**	NA	**200 J**	NA	**120 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**490 J**	NA	**150 J**	NA	**120 J**	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**810 J**	NA	**240 J**	NA	**160 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**150 JB**	NA	< 1100	NA	**320 JB**	NA
Chrysene	62,000	230,000	80,000	-	**1,500**	NA	**380 J**	NA	**400 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	**220 J**	NA	< 1100	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1200	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1200	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**380 JB**	NA	**300 JB**	NA	**760 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**1,800**	NA	**380 J**	NA	**270 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	**130 J**	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	**480 J**	NA	**140 J**	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1200	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	**1,200**	NA	**180 J**	NA	**300 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	**1,500**	NA	**360 J**	NA	**390 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**6,500**	NA	**12,020**	NA	**9,800**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-44		FTMM02-B-45		FTMM02-B-46	
Sample ID					FTMM02-SS-B-44-0-1.0	FTMM02-SS-B-44-2-2	FTMM02-SS-B-45-0-1.0	FTMM02-SS-B-45-2-2	FTMM02-SS-B-46-0-1.0	FTMM02-SS-B-46-2-2
Sample Date					3/11/1999	3/11/1999	3/16/1999	3/16/1999	3/16/1999	3/16/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	**0.043**	NA	< 0.0137	NA	**0.116**	NA
4,4'-DDE	2	9	18	-	**0.041**	NA	**0.095**	NA	**0.098**	NA
4,4'-DDT	2	8	11	-	< 0.0238	NA	< 0.0252	NA	**0.058**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0108	NA	< 0.0115	NA	< 0.0114	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0108	NA	< 0.0115	NA	**0.015**	NA
Endrin	23	340	1	-	< 0.0108	NA	< 0.0115	NA	< 0.0114	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0087	NA	< 0.0092	NA	< 0.0091	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0108	NA	< 0.0115	NA	< 0.0114	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3468	NA	< 0.3664	NA	< 0.3633	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1387	NA	< 0.1466	NA	< 0.1453	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0867	NA	< 0.0916	NA	< 0.0908	NA
Aroclor-1260	0.2	1	NLE	-	< 0.078	NA	< 0.0824	NA	< 0.0817	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	**7,990**	NA	**11,600**	NA	**8,680**	NA
Antimony	31	450	6	ND	< 0.472	NA	< 0.418	NA	< 0.46	NA
Arsenic	19	19	19	22.9	**7.93**	NA	**9.04**	NA	**15**	NA
Barium	16,000	59,000	2,100	32.3	**53**	NA	**95**	NA	**54.9**	NA
Beryllium	16	140	0.7	2	**1.12**	NA	**2.03**	NA	**1.15**	NA
Cadmium	78	78	2	ND	**0.3**	NA	**0.756**	NA	< 0.115	NA
Calcium	NLE	NLE	NLE	921	**1,280**	NA	**1,740**	NA	**1,040**	NA
Chromium	NLE	NLE	NLE	269	**108**	NA	**196**	NA	**126**	NA
Cobalt	1,600	590	90	2.5	**1.12**	NA	**1.65**	NA	**1.27**	NA
Copper	3,100	45,000	11,000	8	**38.4**	NA	**35.6**	NA	**27.2**	NA
Iron	NLE	NLE	NLE	55,800	**24,200**	NA	**44,500**	NA	**31,400**	NA
Lead	400	800	90	19.5	**17.6**	NA	**16.2**	NA	**20**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,300**	NA	**6,620**	NA	**3,840**	NA
Manganese	11,000	5,900	65	90.7	**26.5**	NA	**27.3**	NA	**21.4**	NA
Mercury	23	65	0.1	ND	**0.07**	NA	**0.22**	NA	**0.1**	NA
Nickel	1,600	23,000	48	8.4	**5.24**	NA	**11.1**	NA	**5.35**	NA
Potassium	NLE	NLE	NLE	15,400	**7,630**	NA	**15,200**	NA	**8,900**	NA
Selenium	390	5,700	11	1.9	**1.09**	NA	**1.7**	NA	**1.72**	NA
Silver	390	5,700	1	1.1	< 0.708	NA	< 0.628	NA	< 0.69	NA
Sodium	NLE	NLE	NLE	51.6	**195**	NA	**207**	NA	**292**	NA
Thallium	5	79	3	ND	< 0.708	NA	< 0.628	NA	< 0.69	NA
Vanadium	78	1,100	NLE	94.1	**47.4**	NA	**85.9**	NA	**51.3**	NA
Zinc	23,000	110,000	930	81.4	**62.1**	NA	**240**	NA	**49.2**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-47		FTMM02-B-48		FTMM02-B-49	
Sample ID					FTMM02-SS-B-47-0-1.0	FTMM02-SS-B-47-2-2	FTMM02-SS-B-48-0-1.0	FTMM02-SS-B-48-2-2	FTMM02-SS-B-49-0-1.0	FTMM02-SS-B-49-2-2
Sample Date					3/16/1999	3/16/1999	3/16/1999	3/16/1999	3/17/1999	3/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	NA	< 520	NA	< 560	NA	< 590
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 260	NA	< 280	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 520	NA	< 560	NA	< 590
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 520	NA	< 560	NA	< 590
Toluene	6,300,000	91,000,000	7,000	-	NA	< 260	NA	< 280	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	**5,500**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1200	NA	< 1300	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1200	NA	< 1300	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1200	NA	< 1300	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1200	NA	< 1300	NA
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1300	NA
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	**140 J**	NA	**180 J**	NA
Benzo(a)pyrene	200	200	200	-	**660 J**	NA	**170 J**	NA	**170 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	**130 J**	NA	**140 J**	NA	**320 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**160 J**	NA	< 1200	NA	**130 J**	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**140 J**	NA	**160 J**	NA	**290 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	**190 JB**	NA	< 1300	NA
Chrysene	62,000	230,000	80,000	-	**610 J**	NA	**280 J**	NA	**610 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1200	NA	< 1300	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1300	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1200	NA	< 1300	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**380 JB**	NA	**550 JB**	NA	**380 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**150 J**	NA	**230 J**	NA	< 1300	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1200	NA	< 1300	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1200	NA	**140 J**	NA
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1200	NA	< 1300	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**140 J**	NA	< 1300	NA
Pyrene	1,700,000	18,000,000	840,000	-	**180 J**	NA	**250 J**	NA	**170 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	ND	NA	**8,400**	NA	**11,500**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-47		FTMM02-B-48		FTMM02-B-49	
Sample ID					FTMM02-SS-B-47-0-1.0	FTMM02-SS-B-47-2-2	FTMM02-SS-B-48-0-1.0	FTMM02-SS-B-48-2-2	FTMM02-SS-B-49-0-1.0	FTMM02-SS-B-49-2-2
Sample Date					3/16/1999	3/16/1999	3/16/1999	3/16/1999	3/17/1999	3/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	**0.038**	NA	**0.029**	NA	**0.195**	NA
4,4'-DDE	2	9	18	-	**0.05**	NA	**0.032**	NA	**0.158**	NA
4,4'-DDT	2	8	11	-	**0.305**	NA	< 0.0259	NA	**0.105**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0113	NA	**0.017**	NA	< 0.0132	NA
Dieldrin	0.04	0.2	0.003	-	**0.019**	NA	< 0.0118	NA	**0.074**	NA
Endrin	23	340	1	-	**0.019**	NA	< 0.0118	NA	< 0.0132	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	**0.009**	NA	< 0.0094	NA	< 0.0105	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0113	NA	**0.021**	NA	< 0.0132	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.361	NA	< 0.3765	NA	< 0.4213	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1444	NA	< 0.1506	NA	< 0.1685	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0903	NA	< 0.0941	NA	< 0.1053	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0812	NA	< 0.0847	NA	< 0.0948	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	**11,400**	NA	**8,380**	NA	**12,500**	NA
Antimony	31	450	6	ND	**0.475**	NA	< 0.394	NA	< 0.531	NA
Arsenic	19	19	19	22.9	**13.2**	NA	**13.9**	NA	**12.4**	NA
Barium	16,000	59,000	2,100	32.3	**47.7**	NA	**69.6**	NA	**27.1**	NA
Beryllium	16	140	0.7	2	**1.52**	NA	**1.32**	NA	**1.47**	NA
Cadmium	78	78	2	ND	< 0.107	NA	**0.431**	NA	< 0.133	NA
Calcium	NLE	NLE	NLE	921	**1,770**	NA	**1,570**	NA	**1,920**	NA
Chromium	NLE	NLE	NLE	269	**139**	NA	**118**	NA	**163**	NA
Cobalt	1,600	590	90	2.5	**1.53**	NA	**1.26**	NA	**2.29**	NA
Copper	3,100	45,000	11,000	8	**34.6**	NA	**44**	NA	**11.6**	NA
Iron	NLE	NLE	NLE	55,800	**40,400**	NA	**29,900**	NA	**37,700**	NA
Lead	400	800	90	19.5	**16.2**	NA	**28.3**	NA	**21.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**4,960**	NA	**3,870**	NA	**4,610**	NA
Manganese	11,000	5,900	65	90.7	**29.6**	NA	**40.3**	NA	**41.4**	NA
Mercury	23	65	0.1	ND	**0.06**	NA	**0.05**	NA	**0.089**	NA
Nickel	1,600	23,000	48	8.4	**7.59**	NA	**5.7**	NA	**8.21**	NA
Potassium	NLE	NLE	NLE	15,400	**11,700**	NA	**9,240**	NA	**11,100**	NA
Selenium	390	5,700	11	1.9	**0.818**	NA	**1.63**	NA	**2.02**	NA
Silver	390	5,700	1	1.1	< 0.642	NA	< 0.591	NA	< 0.796	NA
Sodium	NLE	NLE	NLE	51.6	**147**	NA	**178**	NA	**253**	NA
Thallium	5	79	3	ND	< 0.642	NA	< 0.591	NA	< 0.796	NA
Vanadium	78	1,100	NLE	94.1	**76.4**	NA	**43**	NA	**45.2**	NA
Zinc	23,000	110,000	930	81.4	**76.8**	NA	**82.4**	NA	**91.8**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-5		FTMM02-B-50		FTMM02-B-51	
Sample ID					FTMM02-SS-B-5-0-1.0	FTMM02-SS-B-5-2-2	FTMM02-SS-B-50-0-1.0	FTMM02-SS-B-50-2-2	FTMM02-SS-B-51-0-1.0	FTMM02-SS-B-51-2-2
Sample Date					2/19/1999	2/19/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	NA	< 560	NA	< 580	NA	< 540
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 290	NA	< 270
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 560	NA	< 580	NA	< 540
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 560	NA	< 580	NA	< 540
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 290	NA	< 270
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**15,000**	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1000	NA	< 1400	NA	< 1100	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1000	NA	< 1400	NA	< 1100	NA
Acenaphthylene	NLE	300,000,000	NLE	-	< 1000	NA	< 1400	NA	< 1100	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1000	NA	< 1400	NA	< 1100	NA
Azobenzene	NLE	NLE	NLE	-	< 1000	NA	< 1400	NA	< 1100	NA
Benzo(a)anthracene	600	2,000	800	-	< 1000	NA	**260 J**	NA	< 1100	NA
Benzo(a)pyrene	200	200	200	-	< 1000	NA	**310 J**	NA	< 1100	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1000	NA	**290 J**	NA	< 1100	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1000	NA	**320 J**	NA	< 1100	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1000	NA	**210 J**	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**120 JB**	NA	**190 JB**	NA	**150 JB**	NA
Chrysene	62,000	230,000	80,000	-	< 1000	NA	**530 J**	NA	**180 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	< 1000	NA	< 1400	NA	< 1100	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1000	NA	< 1400	NA	< 1100	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1000	NA	< 1400	NA	< 1100	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**280 JB**	NA	**700 JB**	NA	**160 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1000	NA	**370 J**	NA	**150 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	< 1000	NA	< 1400	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1000	NA	**210 J**	NA	< 1100	NA
Naphthalene	6,000	17,000	25,000	-	< 1000	NA	< 1400	NA	< 1100	NA
Phenanthrene	NLE	300,000,000	NLE	-	< 1000	NA	**200 J**	NA	< 1100	NA
Pyrene	1,700,000	18,000,000	840,000	-	< 1000	NA	**420 J**	NA	**190 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**3,100**	NA	**8,000**	NA	**8,700**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-5		FTMM02-B-50		FTMM02-B-51	
Sample ID					FTMM02-SS-B-5-0-1.0	FTMM02-SS-B-5-2-2	FTMM02-SS-B-50-0-1.0	FTMM02-SS-B-50-2-2	FTMM02-SS-B-51-0-1.0	FTMM02-SS-B-51-2-2
Sample Date					2/19/1999	2/19/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	< 0.0127	NA	**0.133**	NA	**0.106**	NA
4,4'-DDE	2	9	18	-	**0.016**	NA	**0.109**	NA	**0.047**	NA
4,4'-DDT	2	8	11	-	**0.04**	NA	**0.116**	NA	**0.083**	NA
Alpha-Chlordane	NLE	1	NLE	-	< 0.0106	NA	< 0.0115	NA	< 0.0119	NA
Dieldrin	0.04	0.2	0.003	-	< 0.0106	NA	< 0.0115	NA	< 0.0119	NA
Endrin	23	340	1	-	< 0.0106	NA	< 0.0115	NA	< 0.0119	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0085	NA	< 0.0092	NA	< 0.0095	NA
Gamma-Chlordane	0.2	1	NLE	-	< 0.0106	NA	< 0.0115	NA	< 0.0119	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3395	NA	< 0.0184	NA	< 0.381	NA
Aroclor-1248	0.2	1	NLE	-	< 0.1358	NA	< 0.0074	NA	< 0.1524	NA
Aroclor-1254	0.2	1	NLE	-	< 0.0849	NA	< 0.0046	NA	< 0.0953	NA
Aroclor-1260	0.2	1	NLE	-	< 0.0764	NA	**0.329**	NA	< 0.0857	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	**3,930**	NA	**6,730**	NA	**7,310**	NA
Antimony	31	450	6	ND	**1.4**	NA	< 0.465	NA	< 0.49	NA
Arsenic	19	19	19	22.9	**11.2**	NA	**7.92**	NA	**10.4**	NA
Barium	16,000	59,000	2,100	32.3	**12.9**	NA	**54.3**	NA	**67.3**	NA
Beryllium	16	140	0.7	2	**0.488**	NA	**1.16**	NA	**1.19**	NA
Cadmium	78	78	2	ND	**0.525**	NA	< 0.116	NA	< 0.123	NA
Calcium	NLE	NLE	NLE	921	**275**	NA	**907**	NA	**1,130**	NA
Chromium	NLE	NLE	NLE	269	**69.6**	NA	**89.3**	NA	**101**	NA
Cobalt	1,600	590	90	2.5	**2.26**	NA	**1.01**	NA	**1.17**	NA
Copper	3,100	45,000	11,000	8	**29.6**	NA	**6.23**	NA	**7.88**	NA
Iron	NLE	NLE	NLE	55,800	**16,700**	NA	**23,000**	NA	**24,900**	NA
Lead	400	800	90	19.5	**28.9**	NA	**15.8**	NA	**18.1**	NA
Magnesium	NLE	NLE	NLE	7,230	**986**	NA	**2,530**	NA	**2,480**	NA
Manganese	11,000	5,900	65	90.7	**2,450**	NA	**19.9**	NA	**20.1**	NA
Mercury	23	65	0.1	ND	**0.39**	NA	**0.052**	NA	**0.026**	NA
Nickel	1,600	23,000	48	8.4	**7.16**	NA	**5.1**	NA	**5.72**	NA
Potassium	NLE	NLE	NLE	15,400	**2,430**	NA	**6,300**	NA	**5,980**	NA
Selenium	390	5,700	11	1.9	**1.66**	NA	**1.67**	NA	**2.12**	NA
Silver	390	5,700	1	1.1	< 0.727	NA	< 0.697	NA	< 0.736	NA
Sodium	NLE	NLE	NLE	51.6	**80.2**	NA	**97.9**	NA	**103**	NA
Thallium	5	79	3	ND	< 0.727	NA	< 0.697	NA	< 0.736	NA
Vanadium	78	1,100	NLE	94.1	**51.7**	NA	**30.9**	NA	**38.1**	NA
Zinc	23,000	110,000	930	81.4	**2,720**	NA	**54.6**	NA	**50.4**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-52				FTMM02-B-53
Sample ID					FTMM02-SS-B-52-0-1.0	FTMM02-SS-B-52-0-1.0-Dup	FTMM02-SS-B-52-2-2	FTMM02-SS-B-52-2-2-Dup	FTMM02-SS-B-53-0-1.0
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	< 850	< 830	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	< 430	< 410	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	< 850	**140 J**	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	< 850	< 830	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	< 430	< 410	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	**14,000**	ND	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1200	< 1200	NA	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1200	< 1200	NA	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	< 1200	< 1200	NA	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1200	< 1200	NA	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	< 1200	< 1200	NA	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	< 1200	< 1200	NA	NA	< 1200
Benzo(a)pyrene	200	200	200	-	< 1200	< 1200	NA	NA	< 1200
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1200	< 1200	NA	NA	< 1200
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1200	< 1200	NA	NA	< 1200
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1200	< 1200	NA	NA	< 1200
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1200	< 1200	NA	NA	< 1200
Chrysene	62,000	230,000	80,000	-	< 1200	< 1200	NA	NA	**200 J**
Dibenz(a,h)anthracene	200	200	800	-	< 1200	< 1200	NA	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	< 1200	< 1200	NA	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1200	< 1200	NA	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**830 JB**	**610 JB**	NA	NA	< 1200
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1200	< 1200	NA	NA	**200 J**
Fluorene	2,300,000	24,000,000	170,000	-	< 1200	< 1200	NA	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1200	< 1200	NA	NA	< 1200
Naphthalene	6,000	17,000	25,000	-	< 1200	< 1200	NA	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	< 1200	< 1200	NA	NA	**130 J**
Pyrene	1,700,000	18,000,000	840,000	-	< 1200	< 1200	NA	NA	**270 J**
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**7,900**	**7,200**	NA	NA	**5,860**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-52				FTMM02-B-53
Sample ID					FTMM02-SS-B-52-0-1.0	FTMM02-SS-B-52-0-1.0-Dup	FTMM02-SS-B-52-2-2	FTMM02-SS-B-52-2-2-Dup	FTMM02-SS-B-53-0-1.0
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.024**	**0.032**	NA	NA	**0.037**
4,4'-DDE	2	9	18	-	**0.031**	**0.041**	NA	NA	**0.048**
4,4'-DDT	2	8	11	-	**0.052**	**0.067**	NA	NA	< 0.0259
Alpha-Chlordane	NLE	1	NLE	-	< 0.0117	< 0.0119	NA	NA	< 0.0118
Dieldrin	0.04	0.2	0.003	-	< 0.0117	< 0.0119	NA	NA	< 0.0118
Endrin	23	340	1	-	< 0.0117	< 0.0119	NA	NA	< 0.0118
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0094	< 0.0095	NA	NA	< 0.0094
Gamma-Chlordane	0.2	1	NLE	-	< 0.0117	< 0.0119	NA	NA	< 0.0118
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3744	< 0.3812	NA	NA	< 0.3767
Aroclor-1248	0.2	1	NLE	-	< 0.1498	< 0.1525	NA	NA	< 0.1507
Aroclor-1254	0.2	1	NLE	-	< 0.0936	< 0.0953	NA	NA	< 0.0942
Aroclor-1260	0.2	1	NLE	-	< 0.0843	< 0.0858	NA	NA	< 0.0848
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**8,120**	**11,300**	NA	NA	**5,860**
Antimony	31	450	6	ND	< 0.416	< 0.489	NA	NA	< 0.472
Arsenic	19	19	19	22.9	**8.57**	**8.88**	NA	NA	**11.1**
Barium	16,000	59,000	2,100	32.3	**48.6**	**57.8**	NA	NA	**63.6**
Beryllium	16	140	0.7	2	**0.966**	**1.27**	NA	NA	**1**
Cadmium	78	78	2	ND	< 0.104	< 0.122	NA	NA	< 0.118
Calcium	NLE	NLE	NLE	921	**611**	**736**	NA	NA	**2,910**
Chromium	NLE	NLE	NLE	269	**104**	**128**	NA	NA	**72.7**
Cobalt	1,600	590	90	2.5	**0.964**	**1.27**	NA	NA	**2.49**
Copper	3,100	45,000	11,000	8	**4.99**	**7.39**	NA	NA	**11.7**
Iron	NLE	NLE	NLE	55,800	**24,000**	**29,000**	NA	NA	**21,300**
Lead	400	800	90	19.5	**16.2**	**28.6**	NA	NA	**18.1**
Magnesium	NLE	NLE	NLE	7,230	**2,720**	**3,250**	NA	NA	**1,900**
Manganese	11,000	5,900	65	90.7	**16.4**	**26**	NA	NA	**28.2**
Mercury	23	65	0.1	ND	**0.027**	**0.049**	NA	NA	**0.027**
Nickel	1,600	23,000	48	8.4	**4.33**	**5.47**	NA	NA	**9.07**
Potassium	NLE	NLE	NLE	15,400	**6,180**	**7,390**	NA	NA	**4,900**
Selenium	390	5,700	11	1.9	**1.56**	**1.15**	NA	NA	**1.94**
Silver	390	5,700	1	1.1	< 0.624	< 0.734	NA	NA	< 0.708
Sodium	NLE	NLE	NLE	51.6	**91.8**	**107**	NA	NA	**103**
Thallium	5	79	3	ND	< 0.624	< 0.734	NA	NA	< 0.708
Vanadium	78	1,100	NLE	94.1	**41.8**	**56.6**	NA	NA	**26.2**
Zinc	23,000	110,000	930	81.4	**42.2**	**47.1**	NA	NA	**49.6**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-53	FTMM02-B-54		FTMM02-B-55		FTMM02-B-56
Sample ID					FTMM02-SS-B-53-2-2	FTMM02-SS-B-54-0-1.0	FTMM02-SS-B-54-2-2	FTMM02-SS-B-55-0-1.0	FTMM02-SS-B-55-2-2	FTMM02-SS-B-56-0-1.0
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/18/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	< 560	NA	< 500	NA	< 590	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 280	NA	< 250	NA	< 290	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 560	NA	< 500	NA	< 590	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 560	NA	< 500	NA	< 590	NA
Toluene	6,300,000	91,000,000	7,000	-	< 280	NA	< 250	NA	< 290	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**8,000**	NA	ND	NA	**9,600**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	**880 J**	NA	**130 J**
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	**1,000 J**	NA	**120 J**
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	**1,100 J**	NA	< 1200
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	**760 J**	NA	< 1200
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	**970 J**	NA	< 1200
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**150 JB**	NA	**140 J**	NA	**190 J**
Chrysene	62,000	230,000	80,000	-	NA	< 1100	NA	**1,500**	NA	**220 J**
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	**250 J**	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**640 JB**	NA	**430 JB**	NA	**130 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	< 1100	NA	**780 J**	NA	**230 J**
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	**780 J**	NA	< 1200
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Pyrene	1,700,000	18,000,000	840,000	-	NA	< 1100	NA	**630 J**	NA	**220 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**5,200**	NA	**6,600**	NA	**14,100**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-53	FTMM02-B-54		FTMM02-B-55		FTMM02-B-56
Sample ID					FTMM02-SS-B-53-2-2	FTMM02-SS-B-54-0-1.0	FTMM02-SS-B-54-2-2	FTMM02-SS-B-55-0-1.0	FTMM02-SS-B-55-2-2	FTMM02-SS-B-56-0-1.0
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/18/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	NA	< 0.0139	NA	**0.015**	NA	**0.017**
4,4'-DDE	2	9	18	-	NA	**0.014**	NA	**0.028**	NA	**0.018**
4,4'-DDT	2	8	11	-	NA	< 0.0254	NA	< 0.0248	NA	< 0.0261
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0116	NA	< 0.0113	NA	< 0.0119
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0116	NA	< 0.0113	NA	< 0.0119
Endrin	23	340	1	-	NA	< 0.0116	NA	< 0.0113	NA	< 0.0119
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0092	NA	< 0.009	NA	< 0.0095
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0116	NA	< 0.0113	NA	< 0.0119
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3698	NA	< 0.361	NA	< 0.3801
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1479	NA	< 0.1444	NA	< 0.1521
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0925	NA	< 0.0903	NA	< 0.095
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0832	NA	< 0.0812	NA	< 0.0855
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	**5,840**	NA	**6,320**	NA	**4,140**
Antimony	31	450	6	ND	NA	< 0.447	NA	< 0.405	NA	**0.677**
Arsenic	19	19	19	22.9	NA	**6.67**	NA	**6.67**	NA	**9.78**
Barium	16,000	59,000	2,100	32.3	NA	**36.3**	NA	**26.2**	NA	**46.5**
Beryllium	16	140	0.7	2	NA	**0.637**	NA	**0.669**	NA	**0.535**
Cadmium	78	78	2	ND	NA	**0.219**	NA	< 0.101	NA	**0.323**
Calcium	NLE	NLE	NLE	921	NA	**5,050**	NA	**767**	NA	**4,310**
Chromium	NLE	NLE	NLE	269	NA	**63.7**	NA	**56.9**	NA	**49.5**
Cobalt	1,600	590	90	2.5	NA	**1.4**	NA	**1.02**	NA	**1.49**
Copper	3,100	45,000	11,000	8	NA	**20.5**	NA	**2.17**	NA	**33.4**
Iron	NLE	NLE	NLE	55,800	NA	**19,300**	NA	**19,700**	NA	**15,900**
Lead	400	800	90	19.5	NA	**36.7**	NA	**5.27**	NA	**41.9**
Magnesium	NLE	NLE	NLE	7,230	NA	**2,350**	NA	**1,790**	NA	**1,770**
Manganese	11,000	5,900	65	90.7	NA	**123**	NA	**39.6**	NA	**83.4**
Mercury	23	65	0.1	ND	NA	**0.216**	NA	< 0.026	NA	**0.401**
Nickel	1,600	23,000	48	8.4	NA	**6.42**	NA	**3.81**	NA	**5.9**
Potassium	NLE	NLE	NLE	15,400	NA	**4,890**	NA	**4,270**	NA	**3,300**
Selenium	390	5,700	11	1.9	NA	**1.28**	NA	< 0.608	NA	**1.11**
Silver	390	5,700	1	1.1	NA	< 0.671	NA	< 0.608	NA	< 0.721
Sodium	NLE	NLE	NLE	51.6	NA	**120**	NA	**45.1**	NA	**165**
Thallium	5	79	3	ND	NA	< 0.671	NA	< 0.608	NA	< 0.721
Vanadium	78	1,100	NLE	94.1	NA	**30.7**	NA	**27.6**	NA	**25.9**
Zinc	23,000	110,000	930	81.4	NA	**96.8**	NA	**20.8**	NA	**126**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-56	FTMM02-B-57		FTMM02-B-58		FTMM02-B-59
Sample ID					FTMM02-SS-B-56-2-2	FTMM02-SS-B-57-0-1.0	FTMM02-SS-B-57-2-2	FTMM02-SS-B-58-0-1.0	FTMM02-SS-B-58-2-2	FTMM02-SS-B-59-0-1.0
Sample Date					3/18/1999	3/18/1999	3/18/1999	3/18/1999	3/18/1999	3/18/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	< 740	NA	< 540	NA	< 580	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 370	NA	< 270	NA	< 290	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 740	NA	< 540	NA	< 580	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 740	NA	< 540	NA	< 580	NA
Toluene	6,300,000	91,000,000	7,000	-	< 370	NA	< 270	NA	< 290	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1100	NA	< 1100
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	< 1100	NA	< 1100
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	**220 J**	NA	**120 J**
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	**240 J**	NA	< 1100
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	**250 J**	NA	< 1100
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	**150 J**	NA	< 1100
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	**200 J**	NA	< 1100
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**150 J**	NA	**130 J**	NA	< 1100
Chrysene	62,000	230,000	80,000	-	NA	< 1100	NA	**420 J**	NA	**200 J**
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1100	NA	< 1100
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1100
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1100	NA	< 1100
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**400 JB**	NA	**150 JB**	NA	< 1100
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	< 1100	NA	**460 J**	NA	**150 J**
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	**140 J**	NA	< 1100
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1100	NA	< 1100
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1100	NA	**250 J**	NA	**150 J**
Pyrene	1,700,000	18,000,000	840,000	-	NA	< 1100	NA	**400 J**	NA	**230 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**3,600**	NA	**3,800**	NA	**1,100**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-56	FTMM02-B-57		FTMM02-B-58		FTMM02-B-59
Sample ID					FTMM02-SS-B-56-2-2	FTMM02-SS-B-57-0-1.0	FTMM02-SS-B-57-2-2	FTMM02-SS-B-58-0-1.0	FTMM02-SS-B-58-2-2	FTMM02-SS-B-59-0-1.0
Sample Date					3/18/1999	3/18/1999	3/18/1999	3/18/1999	3/18/1999	3/18/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	NA	**0.023**	NA	**0.03**	NA	**0.046**
4,4'-DDE	2	9	18	-	NA	**0.016**	NA	**0.033**	NA	**0.028**
4,4'-DDT	2	8	11	-	NA	< 0.0248	NA	< 0.0244	NA	**0.041**
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0113	NA	< 0.0111	NA	< 0.0113
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0113	NA	< 0.0111	NA	< 0.0113
Endrin	23	340	1	-	NA	< 0.0113	NA	< 0.0111	NA	< 0.0113
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.009	NA	< 0.0089	NA	< 0.0091
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0113	NA	< 0.0111	NA	< 0.0113
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3602	NA	< 0.3545	NA	< 0.3628
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1441	NA	< 0.1418	NA	< 0.1451
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0901	NA	< 0.0886	NA	< 0.0907
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0811	NA	< 0.0798	NA	< 0.0816
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	**4,690**	NA	**4,590**	NA	**8,650**
Antimony	31	450	6	ND	NA	< 0.408	NA	< 0.438	NA	< 0.453
Arsenic	19	19	19	22.9	NA	**6.36**	NA	**5.85**	NA	**11.8**
Barium	16,000	59,000	2,100	32.3	NA	**34.5**	NA	**19.1**	NA	**57.3**
Beryllium	16	140	0.7	2	NA	**0.741**	NA	**0.569**	NA	**1.41**
Cadmium	78	78	2	ND	NA	< 0.102	NA	< 0.11	NA	**0.484**
Calcium	NLE	NLE	NLE	921	NA	**629**	NA	**459**	NA	**1,220**
Chromium	NLE	NLE	NLE	269	NA	**64.6**	NA	**58.4**	NA	**133**
Cobalt	1,600	590	90	2.5	NA	**0.83**	NA	**0.804**	NA	**1.37**
Copper	3,100	45,000	11,000	8	NA	**6.75**	NA	**6.88**	NA	**11.5**
Iron	NLE	NLE	NLE	55,800	NA	**17,700**	NA	**13,800**	NA	**30,000**
Lead	400	800	90	19.5	NA	**8.49**	NA	**13**	NA	**13.8**
Magnesium	NLE	NLE	NLE	7,230	NA	**1,860**	NA	**1,480**	NA	**3,710**
Manganese	11,000	5,900	65	90.7	NA	**13.3**	NA	**8.5**	NA	**19.1**
Mercury	23	65	0.1	ND	NA	**0.078**	NA	**0.091**	NA	**0.071**
Nickel	1,600	23,000	48	8.4	NA	**3.69**	NA	**3.44**	NA	**5.9**
Potassium	NLE	NLE	NLE	15,400	NA	**4,400**	NA	**3,510**	NA	**8,580**
Selenium	390	5,700	11	1.9	NA	**1.41**	NA	< 0.657	NA	**1.8**
Silver	390	5,700	1	1.1	NA	< 0.613	NA	< 0.657	NA	< 0.68
Sodium	NLE	NLE	NLE	51.6	NA	**94.4**	NA	**118**	NA	**219**
Thallium	5	79	3	ND	NA	< 0.613	NA	< 0.657	NA	< 0.68
Vanadium	78	1,100	NLE	94.1	NA	**25.9**	NA	**26.5**	NA	**44.7**
Zinc	23,000	110,000	930	81.4	NA	**34.7**	NA	**27.9**	NA	**62.8**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-59	FTMM02-B-59A		FTMM02-B-6		FTMM02-B-60
Sample ID					FTMM02-SS-B-59-2-2	FTMM02-SS-B-59A-0-1.0	FTMM02-SS-B-59A-2-2	FTMM02-SS-B-6-0-1.0	FTMM02-SS-B-6-2-2	FTMM02-SS-B-60-0-1.0
Sample Date					3/18/1999	3/23/1999	3/23/1999	2/19/1999	2/19/1999	3/23/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	< 660	NA	< 540	NA	< 570	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 330	NA	< 270	NA	< 290	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 660	NA	< 540	NA	< 570	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 660	NA	< 540	NA	< 570	NA
Toluene	6,300,000	91,000,000	7,000	-	< 330	NA	< 270	NA	< 290	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	< 1100	NA	**130 J**
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**110 J**	NA	**140 JB**	NA	< 1200
Chrysene	62,000	230,000	80,000	-	NA	**180 J**	NA	**170 J**	NA	**180 J**
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1100	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**160 JB**	NA	**840 JB**	NA	**180 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**140 J**	NA	**170 J**	NA	**180 J**
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	NA	**140 J**	NA	< 1100	NA	< 1200
Pyrene	1,700,000	18,000,000	840,000	-	NA	**220 J**	NA	**150 J**	NA	**210 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**4,800**	NA	**5,250**	NA	**2,500**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-59	FTMM02-B-59A		FTMM02-B-6		FTMM02-B-60
Sample ID					FTMM02-SS-B-59-2-2	FTMM02-SS-B-59A-0-1.0	FTMM02-SS-B-59A-2-2	FTMM02-SS-B-6-0-1.0	FTMM02-SS-B-6-2-2	FTMM02-SS-B-60-0-1.0
Sample Date					3/18/1999	3/23/1999	3/23/1999	2/19/1999	2/19/1999	3/23/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	NA	**0.047**	NA	**0.021**	NA	**0.044**
4,4'-DDE	2	9	18	-	NA	**0.026**	NA	**0.019**	NA	< 0.0093
4,4'-DDT	2	8	11	-	NA	**0.065**	NA	< 0.0238	NA	< 0.0257
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0114	NA	< 0.0108	NA	< 0.0117
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0114	NA	< 0.0108	NA	< 0.0117
Endrin	23	340	1	-	NA	< 0.0114	NA	< 0.0108	NA	< 0.0117
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0091	NA	< 0.0086	NA	< 0.0093
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0114	NA	< 0.0108	NA	< 0.0117
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3658	NA	< 0.3458	NA	< 0.0187
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1463	NA	< 0.1383	NA	< 0.0075
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0914	NA	< 0.0865	NA	**0.651**
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0823	NA	< 0.0778	NA	< 0.0042
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	**7,740**	NA	**14,800**	NA	**6,100**
Antimony	31	450	6	ND	NA	< 0.48	NA	**0.941**	NA	< 0.455
Arsenic	19	19	19	22.9	NA	**12.3**	NA	**12.7**	NA	**8.53**
Barium	16,000	59,000	2,100	32.3	NA	**60**	NA	**46.3**	NA	**38.1**
Beryllium	16	140	0.7	2	NA	**1.26**	NA	**1.49**	NA	**0.92**
Cadmium	78	78	2	ND	NA	< 0.12	NA	**0.506**	NA	< 0.114
Calcium	NLE	NLE	NLE	921	NA	**990**	NA	**1,900**	NA	**759**
Chromium	NLE	NLE	NLE	269	NA	**118**	NA	**88.9**	NA	**89.4**
Cobalt	1,600	590	90	2.5	NA	**1.19**	NA	**3.81**	NA	**0.93**
Copper	3,100	45,000	11,000	8	NA	**10.2**	NA	**16.4**	NA	**7.05**
Iron	NLE	NLE	NLE	55,800	NA	**28,400**	NA	**39,900**	NA	**23,800**
Lead	400	800	90	19.5	NA	**17.1**	NA	**21.1**	NA	**13.8**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,220**	NA	**3,310**	NA	**2,450**
Manganese	11,000	5,900	65	90.7	NA	**19.2**	NA	**89.5**	NA	**16.9**
Mercury	23	65	0.1	ND	NA	**0.079**	NA	**0.14**	NA	**0.06**
Nickel	1,600	23,000	48	8.4	NA	**5.18**	NA	**15.1**	NA	**3.97**
Potassium	NLE	NLE	NLE	15,400	NA	**7,640**	NA	**6,950**	NA	**5,710**
Selenium	390	5,700	11	1.9	NA	**1.66**	NA	**0.727**	NA	**1.29**
Silver	390	5,700	1	1.1	NA	< 0.72	NA	< 0.717	NA	< 0.683
Sodium	NLE	NLE	NLE	51.6	NA	**225**	NA	**110**	NA	**89.7**
Thallium	5	79	3	ND	NA	< 0.72	NA	< 0.717	NA	< 0.683
Vanadium	78	1,100	NLE	94.1	NA	**43.8**	NA	**60.3**	NA	**32**
Zinc	23,000	110,000	930	81.4	NA	**61.4**	NA	**242**	NA	**55.6**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-60	FTMM02-B-61		FTMM02-B-62		FTMM02-B-63
Sample ID					FTMM02-SS-B-60-2-2	FTMM02-SS-B-61-0-1.0	FTMM02-SS-B-61-2-2	FTMM02-SS-B-62-0-1.0	FTMM02-SS-B-62-2-2	FTMM02-SS-B-63-0-1.0
Sample Date					3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	< 560	NA	< 540	NA	< 690	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 280	NA	< 270	NA	< 340	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 560	NA	< 540	NA	< 690	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	**1,000**	NA	**920**	NA	**1,300**	NA
Toluene	6,300,000	91,000,000	7,000	-	< 280	NA	< 270	NA	< 340	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	**230 J**	NA	< 1100	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	NA	**670 J**	NA	**180 J**	NA	**160 J**
Benzo(a)pyrene	200	200	200	-	NA	**510 J**	NA	**150 J**	NA	**140 J**
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	**410 J**	NA	**120 J**	NA	**140 J**
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	**360 J**	NA	< 1100	NA	< 1200
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	**440 J**	NA	**130 J**	NA	**150 J**
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	< 1100	NA	< 1100	NA	**180 J**
Chrysene	62,000	230,000	80,000	-	NA	**900 J**	NA	**270 J**	NA	**280 J**
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1100	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**120 JB**	NA	**130 JB**	NA	**770 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**1,500**	NA	**280 J**	NA	**250 J**
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	**310 J**	NA	< 1100	NA	< 1200
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1100	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	NA	**890 J**	NA	**150 J**	NA	**170 J**
Pyrene	1,700,000	18,000,000	840,000	-	NA	**1,300**	NA	**270 J**	NA	**260 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**960**	NA	ND	NA	**32,770**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-60	FTMM02-B-61		FTMM02-B-62		FTMM02-B-63
Sample ID					FTMM02-SS-B-60-2-2	FTMM02-SS-B-61-0-1.0	FTMM02-SS-B-61-2-2	FTMM02-SS-B-62-0-1.0	FTMM02-SS-B-62-2-2	FTMM02-SS-B-63-0-1.0
Sample Date					3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	NA	**0.02**	NA	**0.047**	NA	**0.03**
4,4'-DDE	2	9	18	-	NA	**0.017**	NA	**0.024**	NA	**0.025**
4,4'-DDT	2	8	11	-	NA	**0.026**	NA	< 0.0249	NA	< 0.0263
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0114	NA	< 0.0113	NA	< 0.0119
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0114	NA	< 0.0113	NA	< 0.0119
Endrin	23	340	1	-	NA	< 0.0114	NA	< 0.0113	NA	< 0.0119
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0091	NA	< 0.0091	NA	< 0.0096
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0114	NA	< 0.0113	NA	< 0.0119
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3657	NA	< 0.3628	NA	< 0.3821
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1463	NA	< 0.1451	NA	< 0.1528
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0914	NA	< 0.0907	NA	< 0.0955
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0823	NA	< 0.0816	NA	< 0.086
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	**10,400**	NA	**2,990**	NA	**5,320**
Antimony	31	450	6	ND	NA	**0.903**	NA	**0.529**	NA	**0.516**
Arsenic	19	19	19	22.9	NA	**11.4**	NA	**3.34**	NA	**3.72**
Barium	16,000	59,000	2,100	32.3	NA	**39.8**	NA	**19.2**	NA	**13.3**
Beryllium	16	140	0.7	2	NA	**1.66**	NA	**0.255**	NA	**0.304**
Cadmium	78	78	2	ND	NA	**0.225**	NA	**0.655**	NA	**0.27**
Calcium	NLE	NLE	NLE	921	NA	**1,390**	NA	**299**	NA	**483**
Chromium	NLE	NLE	NLE	269	NA	**126**	NA	**14.3**	NA	**22.2**
Cobalt	1,600	590	90	2.5	NA	**1.45**	NA	**0.727**	NA	**1.11**
Copper	3,100	45,000	11,000	8	NA	**12.8**	NA	**10.6**	NA	**5.18**
Iron	NLE	NLE	NLE	55,800	NA	**31,200**	NA	**4,420**	NA	**7,850**
Lead	400	800	90	19.5	NA	**18.2**	NA	**22.7**	NA	**7.45**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,880**	NA	**285**	NA	**506**
Manganese	11,000	5,900	65	90.7	NA	**31.5**	NA	**9.4**	NA	**15.5**
Mercury	23	65	0.1	ND	NA	**0.133**	NA	**0.074**	NA	**0.08**
Nickel	1,600	23,000	48	8.4	NA	**6.85**	NA	**3.47**	NA	**5.93**
Potassium	NLE	NLE	NLE	15,400	NA	**8,710**	NA	**479**	NA	**903**
Selenium	390	5,700	11	1.9	NA	**0.938**	NA	< 0.61	NA	< 0.747
Silver	390	5,700	1	1.1	NA	< 0.714	NA	< 0.61	NA	< 0.747
Sodium	NLE	NLE	NLE	51.6	NA	**160**	NA	**84**	NA	**113**
Thallium	5	79	3	ND	NA	< 0.714	NA	< 0.61	NA	< 0.747
Vanadium	78	1,100	NLE	94.1	NA	**46.8**	NA	**11**	NA	**16.3**
Zinc	23,000	110,000	930	81.4	NA	**85**	NA	**30.2**	NA	**25.6**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-63	FTMM02-B-64		FTMM02-B-65		FTMM02-B-66
Sample ID					FTMM02-SS-B-63-2-2	FTMM02-SS-B-64-0-1.0	FTMM02-SS-B-64-2-2	FTMM02-SS-B-65-0-1.0	FTMM02-SS-B-65-2-2	FTMM02-SS-B-66-0-1.0
Sample Date					3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/30/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	< 600	NA	< 1100	NA	< 560	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 300	NA	< 550	NA	< 280	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 600	NA	< 1100	NA	< 560	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 600	NA	**1,900**	NA	**1,300**	NA
Toluene	6,300,000	91,000,000	7,000	-	< 300	NA	< 550	NA	< 280	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1600	NA	< 1100	NA	< 1100
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1600	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1600	NA	< 1100	NA	< 1100
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1600	NA	**240 J**	NA	< 1100
Azobenzene	NLE	NLE	NLE	-	NA	< 1600	NA	< 1100	NA	< 1100
Benzo(a)anthracene	600	2,000	800	-	NA	< 1600	NA	**750 J**	NA	< 1100
Benzo(a)pyrene	200	200	200	-	NA	< 1600	NA	**600 J**	NA	< 1100
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1600	NA	**580 J**	NA	< 1100
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1600	NA	**240 J**	NA	< 1100
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1600	NA	**530 J**	NA	< 1100
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**200 J**	NA	**220 J**	NA	< 1100
Chrysene	62,000	230,000	80,000	-	NA	< 1600	NA	**1,200**	NA	**160 J**
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1600	NA	< 1100	NA	< 1100
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1600	NA	< 1100	NA	< 1100
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1600	NA	< 1100	NA	< 1100
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**1,500 JB**	NA	**130 JB**	NA	**470 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	< 1600	NA	**1,300**	NA	< 1100
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1600	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1600	NA	**230 J**	NA	< 1100
Naphthalene	6,000	17,000	25,000	-	NA	< 1600	NA	< 1100	NA	< 1100
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1600	NA	**820 J**	NA	< 1100
Pyrene	1,700,000	18,000,000	840,000	-	NA	< 1600	NA	**1,300**	NA	**130 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**16,400**	NA	**1,000**	NA	**15,700**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-63	FTMM02-B-64		FTMM02-B-65		FTMM02-B-66
Sample ID					FTMM02-SS-B-63-2-2	FTMM02-SS-B-64-0-1.0	FTMM02-SS-B-64-2-2	FTMM02-SS-B-65-0-1.0	FTMM02-SS-B-65-2-2	FTMM02-SS-B-66-0-1.0
Sample Date					3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/30/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	NA	< 0.0187	NA	**0.131**	NA	**0.025**
4,4'-DDE	2	9	18	-	NA	**0.015**	NA	**0.019**	NA	**0.041**
4,4'-DDT	2	8	11	-	NA	< 0.0344	NA	< 0.0245	NA	**0.051**
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0156	NA	< 0.0112	NA	< 0.0108
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0156	NA	**0.012**	NA	< 0.0108
Endrin	23	340	1	-	NA	< 0.0156	NA	< 0.0112	NA	< 0.0108
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0125	NA	< 0.0089	NA	< 0.0086
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0156	NA	< 0.0112	NA	< 0.0108
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.4997	NA	< 0.3569	NA	< 0.3446
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1999	NA	< 0.1427	NA	< 0.1378
Aroclor-1254	0.2	1	NLE	-	NA	< 0.1249	NA	< 0.0892	NA	< 0.0861
Aroclor-1260	0.2	1	NLE	-	NA	< 0.1124	NA	< 0.0803	NA	< 0.0775
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	**32,000**	NA	**4,540**	NA	**8,390**
Antimony	31	450	6	ND	NA	< 0.642	NA	**0.538**	NA	**0.788**
Arsenic	19	19	19	22.9	NA	**26.8**	NA	**2.58**	NA	**2.16**
Barium	16,000	59,000	2,100	32.3	NA	**220**	NA	**159**	NA	**17.1**
Beryllium	16	140	0.7	2	NA	**10.6**	NA	**0.662**	NA	**0.246**
Cadmium	78	78	2	ND	NA	**1.36**	NA	**0.578**	NA	**0.157**
Calcium	NLE	NLE	NLE	921	NA	**325**	NA	**2,170**	NA	**267**
Chromium	NLE	NLE	NLE	269	NA	**271**	NA	**11.9**	NA	**21.5**
Cobalt	1,600	590	90	2.5	NA	**13.1**	NA	**7.29**	NA	**0.988**
Copper	3,100	45,000	11,000	8	NA	**134**	NA	**48**	NA	**13.4**
Iron	NLE	NLE	NLE	55,800	NA	**89,600**	NA	**7,670**	NA	**6,840**
Lead	400	800	90	19.5	NA	**119**	NA	**6.85**	NA	**6.86**
Magnesium	NLE	NLE	NLE	7,230	NA	**4,960**	NA	**544**	NA	**507**
Manganese	11,000	5,900	65	90.7	NA	**42.5**	NA	**29.4**	NA	**19**
Mercury	23	65	0.1	ND	NA	**16.7**	NA	**0.173**	NA	**0.078**
Nickel	1,600	23,000	48	8.4	NA	**70.7**	NA	**19.6**	NA	**4.44**
Potassium	NLE	NLE	NLE	15,400	NA	**8,570**	NA	**274**	NA	**1,080**
Selenium	390	5,700	11	1.9	NA	**2.01**	NA	**1.06**	NA	< 0.677
Silver	390	5,700	1	1.1	NA	< 0.963	NA	< 0.776	NA	< 0.677
Sodium	NLE	NLE	NLE	51.6	NA	**291**	NA	**358**	NA	**133**
Thallium	5	79	3	ND	NA	< 0.963	NA	< 0.776	NA	< 0.677
Vanadium	78	1,100	NLE	94.1	NA	**189**	NA	**17.3**	NA	**17.1**
Zinc	23,000	110,000	930	81.4	NA	**283**	NA	**61.8**	NA	**30.4**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-66	FTMM02-B-67		FTMM02-B-68		FTMM02-B-69
Sample ID					FTMM02-SS-B-66-2-2	FTMM02-SS-B-67-0-1.0	FTMM02-SS-B-67-2-2	FTMM02-SS-B-68-0-1.0	FTMM02-SS-B-68-2-2	FTMM02-SS-B-69-0-1.0
Sample Date					3/30/1999	3/30/1999	3/30/1999	3/30/1999	3/30/1999	3/30/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	< 560	NA	< 540	NA	< 590	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 280	NA	**690**	NA	< 290	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 560	NA	< 540	NA	< 590	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 560	NA	< 540	NA	**420 J**	NA
Toluene	6,300,000	91,000,000	7,000	-	< 280	NA	< 270	NA	< 290	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1200	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1200	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1200	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	< 1200	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	< 1200	NA	< 1200
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**140 JB**	NA	**160 JB**	NA	< 1200
Chrysene	62,000	230,000	80,000	-	NA	**140 J**	NA	< 1200	NA	**190 J**
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1200	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1200	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**210 JB**	NA	**680 JB**	NA	**130 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**140 J**	NA	< 1200	NA	**160 J**
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1200	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	< 1200	NA	< 1200
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1200	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1200	NA	**170 J**
Pyrene	1,700,000	18,000,000	840,000	-	NA	**130 J**	NA	< 1200	NA	**190 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**9,900**	NA	**21,700**	NA	**9,000**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-66	FTMM02-B-67		FTMM02-B-68		FTMM02-B-69
Sample ID					FTMM02-SS-B-66-2-2	FTMM02-SS-B-67-0-1.0	FTMM02-SS-B-67-2-2	FTMM02-SS-B-68-0-1.0	FTMM02-SS-B-68-2-2	FTMM02-SS-B-69-0-1.0
Sample Date					3/30/1999	3/30/1999	3/30/1999	3/30/1999	3/30/1999	3/30/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	NA	< 0.0127	NA	< 0.0142	NA	**0.062**
4,4'-DDE	2	9	18	-	NA	**0.016**	NA	**0.012**	NA	**0.023**
4,4'-DDT	2	8	11	-	NA	< 0.0233	NA	< 0.026	NA	**0.044**
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0106	NA	**0.021**	NA	< 0.0111
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0106	NA	< 0.0118	NA	< 0.0111
Endrin	23	340	1	-	NA	< 0.0106	NA	< 0.0118	NA	< 0.0111
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0085	NA	< 0.0095	NA	< 0.0089
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0106	NA	**0.022**	NA	< 0.0111
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3391	NA	< 0.3784	NA	< 0.3568
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1356	NA	< 0.1514	NA	< 0.1427
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0848	NA	< 0.0946	NA	< 0.0892
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0763	NA	< 0.0851	NA	< 0.0803
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	**8,220**	NA	**8,820**	NA	**10,300**
Antimony	31	450	6	ND	NA	**0.49**	NA	< 0.499	NA	**0.432**
Arsenic	19	19	19	22.9	NA	**9.76**	NA	**8.46**	NA	**9.48**
Barium	16,000	59,000	2,100	32.3	NA	**48.6**	NA	**56.2**	NA	**53.2**
Beryllium	16	140	0.7	2	NA	**1.05**	NA	**1.3**	NA	**1.08**
Cadmium	78	78	2	ND	NA	< 0.112	NA	< 0.125	NA	< 0.107
Calcium	NLE	NLE	NLE	921	NA	**1,250**	NA	**864**	NA	**819**
Chromium	NLE	NLE	NLE	269	NA	**99.4**	NA	**134**	NA	**102**
Cobalt	1,600	590	90	2.5	NA	**1.21**	NA	**1.39**	NA	**2**
Copper	3,100	45,000	11,000	8	NA	**10.3**	NA	**8.25**	NA	**16.8**
Iron	NLE	NLE	NLE	55,800	NA	**25,600**	NA	**28,500**	NA	**26,000**
Lead	400	800	90	19.5	NA	**25**	NA	**19.1**	NA	**24.4**
Magnesium	NLE	NLE	NLE	7,230	NA	**2,720**	NA	**3,480**	NA	**2,830**
Manganese	11,000	5,900	65	90.7	NA	**18.8**	NA	**21.9**	NA	**28.9**
Mercury	23	65	0.1	ND	NA	**0.117**	NA	**0.062**	NA	**0.13**
Nickel	1,600	23,000	48	8.4	NA	**5.9**	NA	**6.21**	NA	**7.69**
Potassium	NLE	NLE	NLE	15,400	NA	**6,160**	NA	**7,660**	NA	**5,960**
Selenium	390	5,700	11	1.9	NA	**1.57**	NA	**1.56**	NA	**1.3**
Silver	390	5,700	1	1.1	NA	< 0.675	NA	< 0.748	NA	< 0.644
Sodium	NLE	NLE	NLE	51.6	NA	**148**	NA	**117**	NA	**119**
Thallium	5	79	3	ND	NA	< 0.675	NA	< 0.748	NA	< 0.644
Vanadium	78	1,100	NLE	94.1	NA	**39.6**	NA	**56**	NA	**49.3**
Zinc	23,000	110,000	930	81.4	NA	**53.3**	NA	**46.4**	NA	**52.5**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-69	FTMM02-B-70		FTMM02-B-71		FTMM02-B-72
Sample ID					FTMM02-SS-B-69-2-2	FTMM02-SS-B-70-0-1.0	FTMM02-SS-B-70-2-2	FTMM02-SS-B-71-0-1.0	FTMM02-SS-B-71-2-2	FTMM02-SS-B-72-0-1.0
Sample Date					3/30/1999	3/30/1999	3/30/1999	4/6/1999	4/6/1999	4/6/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	< 610	NA	< 660	NA	< 570	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 310	NA	< 330	NA	< 280	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 610	NA	< 660	NA	< 570	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 610	NA	< 660	NA	< 570	NA
Toluene	6,300,000	91,000,000	7,000	-	< 310	NA	< 330	NA	< 280	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	**2,000**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1400	NA	< 1100	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1400	NA	< 1100	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1400	NA	< 1100	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1400	NA	< 1100	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	NA	< 1400	NA	< 1100	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	NA	< 1400	NA	< 1100	NA	< 1200
Benzo(a)pyrene	200	200	200	-	NA	< 1400	NA	< 1100	NA	< 1200
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	**190 J**	NA	< 1100	NA	< 1200
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1400	NA	< 1100	NA	< 1200
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	**150 J**	NA	< 1100	NA	< 1200
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**330 JB**	NA	< 1100	NA	< 1200
Chrysene	62,000	230,000	80,000	-	NA	**340 J**	NA	**150 J**	NA	< 1200
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1400	NA	< 1100	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1400	NA	< 1100	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1400	NA	< 1100	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**1,500 B**	NA	**2,600 B**	NA	**120 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**220 J**	NA	< 1100	NA	< 1200
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1400	NA	< 1100	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1400	NA	< 1100	NA	< 1200
Naphthalene	6,000	17,000	25,000	-	NA	< 1400	NA	< 1100	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1400	NA	< 1100	NA	< 1200
Pyrene	1,700,000	18,000,000	840,000	-	NA	**230 J**	NA	**140 J**	NA	< 1200
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**30,800**	NA	**22,370**	NA	**21,990**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-69	FTMM02-B-70		FTMM02-B-71		FTMM02-B-72
Sample ID					FTMM02-SS-B-69-2-2	FTMM02-SS-B-70-0-1.0	FTMM02-SS-B-70-2-2	FTMM02-SS-B-71-0-1.0	FTMM02-SS-B-71-2-2	FTMM02-SS-B-72-0-1.0
Sample Date					3/30/1999	3/30/1999	3/30/1999	4/6/1999	4/6/1999	4/6/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	NA	**0.14**	NA	**0.059**	NA	**0.295**
4,4'-DDE	2	9	18	-	NA	**0.056**	NA	**0.028**	NA	**0.072**
4,4'-DDT	2	8	11	-	NA	< 0.0263	NA	< 0.0253	NA	< 0.0253
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0119	NA	< 0.0115	NA	< 0.0115
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0119	NA	< 0.0115	NA	**0.024**
Endrin	23	340	1	-	NA	< 0.0119	NA	< 0.0115	NA	< 0.0115
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0096	NA	< 0.0092	NA	< 0.0092
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0119	NA	< 0.0115	NA	< 0.0115
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3823	NA	< 0.3678	NA	< 0.3677
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1529	NA	< 0.1471	NA	< 0.1471
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0956	NA	< 0.0919	NA	< 0.0919
Aroclor-1260	0.2	1	NLE	-	NA	< 0.086	NA	< 0.0828	NA	< 0.0827
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	**15,300**	NA	**8,120**	NA	**2,400**
Antimony	31	450	6	ND	NA	**0.913**	NA	< 0.453	NA	< 0.466
Arsenic	19	19	19	22.9	NA	**9.34**	NA	**8.68**	NA	**2.15**
Barium	16,000	59,000	2,100	32.3	NA	**97.1**	NA	**49.9**	NA	**22.8**
Beryllium	16	140	0.7	2	NA	**2.73**	NA	**1.03**	NA	**0.409**
Cadmium	78	78	2	ND	NA	< 0.139	NA	< 0.113	NA	**1.7**
Calcium	NLE	NLE	NLE	921	NA	**660**	NA	**1,050**	NA	**482**
Chromium	NLE	NLE	NLE	269	NA	**81.8**	NA	**104**	NA	**5.69**
Cobalt	1,600	590	90	2.5	NA	**8.05**	NA	**1.12**	NA	**3.32**
Copper	3,100	45,000	11,000	8	NA	**34**	NA	**3.97**	NA	**18.9**
Iron	NLE	NLE	NLE	55,800	NA	**29,400**	NA	**25,200**	NA	**3,110**
Lead	400	800	90	19.5	NA	**46.8**	NA	**17.9**	NA	**3.73**
Magnesium	NLE	NLE	NLE	7,230	NA	**2,640**	NA	**3,110**	NA	**341**
Manganese	11,000	5,900	65	90.7	NA	**42.5**	NA	**18.7**	NA	**15.5**
Mercury	23	65	0.1	ND	NA	**0.161**	NA	**0.066**	NA	**0.092**
Nickel	1,600	23,000	48	8.4	NA	**31.6**	NA	**4.33**	NA	**12.5**
Potassium	NLE	NLE	NLE	15,400	NA	**5,820**	NA	**8,650**	NA	**246**
Selenium	390	5,700	11	1.9	NA	**1.78**	NA	**1.08**	NA	< 0.699
Silver	390	5,700	1	1.1	NA	< 0.835	NA	< 0.679	NA	< 0.699
Sodium	NLE	NLE	NLE	51.6	NA	**240**	NA	**290**	NA	**142**
Thallium	5	79	3	ND	NA	< 0.835	NA	< 0.679	NA	< 0.699
Vanadium	78	1,100	NLE	94.1	NA	**52.2**	NA	**37.4**	NA	**12.8**
Zinc	23,000	110,000	930	81.4	NA	**108**	NA	**41.6**	NA	**47**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-72	FTMM02-B-73		FTMM02-B-74		FTMM02-B-75
Sample ID					FTMM02-SS-B-72-2-2	FTMM02-SS-B-73-0-1.0	FTMM02-SS-B-73-2-2	FTMM02-SS-B-74-0-1.0	FTMM02-SS-B-74-2-2	FTMM02-SS-B-75-0-1.0
Sample Date					4/6/1999	4/6/1999	4/6/1999	4/9/1999	4/9/1999	4/9/1999
Volatile Organic Compounds (µg/kg)										
Acetone	70,000,000	NLE	19,000	-	< 610	NA	< 650	NA	< 560	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 310	NA	< 320	NA	< 280	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 610	NA	< 650	NA	< 560	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 610	NA	< 650	NA	< 560	NA
Toluene	6,300,000	91,000,000	7,000	-	< 310	NA	< 320	NA	< 280	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1200	NA	< 1100	NA	< 1000
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1200	NA	< 1100	NA	< 1000
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1200	NA	< 1100	NA	**300 J**
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1200	NA	< 1100	NA	< 1000
Azobenzene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	< 1000
Benzo(a)anthracene	600	2,000	800	-	NA	**120 J**	NA	< 1100	NA	**190 J**
Benzo(a)pyrene	200	200	200	-	NA	**130 J**	NA	< 1100	NA	**240 J**
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	**130 J**	NA	< 1100	NA	**190 J**
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1200	NA	< 1100	NA	**250 J**
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	**120 J**	NA	< 1100	NA	**190 J**
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**180 J**	NA	< 1100	NA	< 1000
Chrysene	62,000	230,000	80,000	-	NA	**250 J**	NA	< 1100	NA	**450 J**
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1200	NA	< 1100	NA	< 1000
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	< 1000
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1200	NA	< 1100	NA	< 1000
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**380 JB**	NA	**300 JB**	NA	**600 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**220 J**	NA	< 1100	NA	**210 J**
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1200	NA	< 1100	NA	< 1000
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1200	NA	< 1100	NA	**200 J**
Naphthalene	6,000	17,000	25,000	-	NA	< 1200	NA	< 1100	NA	< 1000
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1200	NA	< 1100	NA	< 1000
Pyrene	1,700,000	18,000,000	840,000	-	NA	**230 J**	NA	< 1100	NA	**340 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**21,860**	NA	**24,030**	NA	**20,120**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-72	FTMM02-B-73		FTMM02-B-74		FTMM02-B-75
Sample ID					FTMM02-SS-B-72-2-2	FTMM02-SS-B-73-0-1.0	FTMM02-SS-B-73-2-2	FTMM02-SS-B-74-0-1.0	FTMM02-SS-B-74-2-2	FTMM02-SS-B-75-0-1.0
Sample Date					4/6/1999	4/6/1999	4/6/1999	4/9/1999	4/9/1999	4/9/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	3	13	4	-	NA	**0.081**	NA	**0.168**	NA	< 0.013
4,4'-DDE	2	9	18	-	NA	**0.049**	NA	**0.038**	NA	**0.013**
4,4'-DDT	2	8	11	-	NA	**0.032**	NA	**0.057**	NA	< 0.0239
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0119	NA	**0.022**	NA	< 0.0108
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0119	NA	< 0.0112	NA	< 0.0108
Endrin	23	340	1	-	NA	< 0.0119	NA	< 0.0112	NA	< 0.0108
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0095	NA	< 0.009	NA	< 0.0087
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0119	NA	**0.019**	NA	< 0.0108
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3803	NA	< 0.3599	NA	< 0.3472
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1521	NA	< 0.144	NA	< 0.1389
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0951	NA	< 0.09	NA	< 0.0868
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0856	NA	< 0.081	NA	< 0.0781
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	**7,890**	NA	**9,570**	NA	**3,670**
Antimony	31	450	6	ND	NA	**0.856**	NA	< 0.465	NA	**2.31**
Arsenic	19	19	19	22.9	NA	**81.3**	NA	**9.55**	NA	**15.1**
Barium	16,000	59,000	2,100	32.3	NA	**76.6**	NA	**23.8**	NA	**13.2**
Beryllium	16	140	0.7	2	NA	**1.06**	NA	**0.896**	NA	**0.332**
Cadmium	78	78	2	ND	NA	< 0.113	NA	< 0.116	NA	< 0.106
Calcium	NLE	NLE	NLE	921	NA	**1,340**	NA	**1,810**	NA	**493**
Chromium	NLE	NLE	NLE	269	NA	**115**	NA	**101**	NA	**32.5**
Cobalt	1,600	590	90	2.5	NA	**0.861**	NA	**1.53**	NA	**3.58**
Copper	3,100	45,000	11,000	8	NA	**3.19**	NA	**16.1**	NA	**55.4**
Iron	NLE	NLE	NLE	55,800	NA	**36,400**	NA	**25,700**	NA	**45,400**
Lead	400	800	90	19.5	NA	**15.1**	NA	**32.3**	NA	**24.2**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,730**	NA	**2,760**	NA	**443**
Manganese	11,000	5,900	65	90.7	NA	**18**	NA	**87.8**	NA	**184**
Mercury	23	65	0.1	ND	NA	**0.051**	NA	**0.103**	NA	**0.058**
Nickel	1,600	23,000	48	8.4	NA	**3.86**	NA	**6.18**	NA	**6.72**
Potassium	NLE	NLE	NLE	15,400	NA	**11,700**	NA	**6,440**	NA	**863**
Selenium	390	5,700	11	1.9	NA	**1.45**	NA	**0.759**	NA	< 0.635
Silver	390	5,700	1	1.1	NA	< 0.679	NA	< 0.698	NA	< 0.635
Sodium	NLE	NLE	NLE	51.6	NA	**301**	NA	**188**	NA	**116**
Thallium	5	79	3	ND	NA	< 0.679	NA	< 0.698	NA	< 0.635
Vanadium	78	1,100	NLE	94.1	NA	**33**	NA	**61.8**	NA	**31.7**
Zinc	23,000	110,000	930	81.4	NA	**47.9**	NA	**63.7**	NA	**43.6**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-75	FTMM02-B-76	
Sample ID					FTMM02-SS-B-75-2-2	FTMM02-SS-B-76-0-1.0	FTMM02-SS-B-76-0-1.0-Dup
Sample Date					4/9/1999	4/9/1999	4/9/1999
Volatile Organic Compounds (µg/kg)							
Acetone	70,000,000	NLE	19,000	-	< 690	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 340	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 690	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 690	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	< 340	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA
TIC VOCs (µg/kg)							
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	NA
Semivolatile Organic Compounds (µg/kg)							
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	< 1100
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	< 1100
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	< 1100
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	< 1100
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	< 1100
Benzo(a)anthracene	600	2,000	800	-	NA	**170 J**	**140 J**
Benzo(a)pyrene	200	200	200	-	NA	**170 J**	**140 J**
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	**180 J**	**150 J**
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	< 1100
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	**140 J**	**130 J**
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	< 1100	< 1100
Chrysene	62,000	230,000	80,000	-	NA	**300 J**	**260 J**
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	< 1100
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	< 1100
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	< 1100
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**790 JB**	**300 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**400 J**	**260 J**
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	< 1100
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	< 1100
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	< 1100
Phenanthrene	NLE	300,000,000	NLE	-	NA	**300 J**	< 1100
Pyrene	1,700,000	18,000,000	840,000	-	NA	**320 J**	**230 J**
TIC SVOCs (µg/kg)							
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**33,920**	**33,300**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-75	FTMM02-B-76	
Sample ID					FTMM02-SS-B-75-2-2	FTMM02-SS-B-76-0-1.0	FTMM02-SS-B-76-0-1.0-Dup
Sample Date					4/9/1999	4/9/1999	4/9/1999
Pesticides & PCBs (mg/kg)							
4,4'-DDD	3	13	4	-	NA	**0.021**	< 0.0137
4,4'-DDE	2	9	18	-	NA	**0.03**	**0.023**
4,4'-DDT	2	8	11	-	NA	**0.073**	**0.032**
Alpha-Chlordane	NLE	1	NLE	-	NA	**0.013**	< 0.0114
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0114	< 0.0114
Endrin	23	340	1	-	NA	< 0.0114	< 0.0114
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0091	< 0.0091
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0114	< 0.0114
Pesticides & PCBs (mg/kg)							
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3644	< 0.3644
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1458	< 0.1458
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0911	< 0.0911
Aroclor-1260	0.2	1	NLE	-	NA	< 0.082	< 0.082
PCB (total)	0.2	1	0.2	-	NA	NA	NA
Inorganics (mg/kg)							
Aluminum	78,000	NLE	6,000	15,200	NA	**12,400**	**11,300**
Antimony	31	450	6	ND	NA	< 0.43	< 0.392
Arsenic	19	19	19	22.9	NA	**9.54**	**10.4**
Barium	16,000	59,000	2,100	32.3	NA	**40.5**	**35.3**
Beryllium	16	140	0.7	2	NA	**0.928**	**0.975**
Cadmium	78	78	2	ND	NA	< 0.108	< 0.098
Calcium	NLE	NLE	NLE	921	NA	**1,350**	**1,250**
Chromium	NLE	NLE	NLE	269	NA	**77.8**	**86.3**
Cobalt	1,600	590	90	2.5	NA	**3.38**	**2.82**
Copper	3,100	45,000	11,000	8	NA	**14.1**	**12.1**
Iron	NLE	NLE	NLE	55,800	NA	**32,200**	**36,100**
Lead	400	800	90	19.5	NA	**21.2**	**22.1**
Magnesium	NLE	NLE	NLE	7,230	NA	**2,190**	**2,390**
Manganese	11,000	5,900	65	90.7	NA	**98**	**94.4**
Mercury	23	65	0.1	ND	NA	**0.083**	**0.075**
Nickel	1,600	23,000	48	8.4	NA	**10**	**9.28**
Potassium	NLE	NLE	NLE	15,400	NA	**4,600**	**5,080**
Selenium	390	5,700	11	1.9	NA	< 0.645	< 0.589
Silver	390	5,700	1	1.1	NA	< 0.645	< 0.589
Sodium	NLE	NLE	NLE	51.6	NA	**494**	**133**
Thallium	5	79	3	ND	NA	< 0.645	< 0.589
Vanadium	78	1,100	NLE	94.1	NA	**74.6**	**77.3**
Zinc	23,000	110,000	930	81.4	NA	**80.5**	**90.6**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-76		FTMM02-B-77		FTMM02-B-78
Sample ID					FTMM02-SS-B-76-2-2	FTMM02-SS-B-76-2-2-Dup	FTMM02-SS-B-77-0-1.0	FTMM02-SS-B-77-2-2	FTMM02-SS-B-78-0-1.0
Sample Date					4/9/1999	4/9/1999	4/13/1999	4/13/1999	4/13/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 590	< 540	NA	< 710	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 290	< 270	NA	< 350	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 590	< 540	NA	< 710	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 590	< 540	NA	< 710	NA
Toluene	6,300,000	91,000,000	7,000	-	< 290	< 270	NA	< 350	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	ND	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	< 1200	NA	< 1300
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	**270 J**	NA	< 1300
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	< 1200	NA	< 1300
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	**550 J**	NA	**150 J**
Azobenzene	NLE	NLE	NLE	-	NA	NA	< 1200	NA	< 1300
Benzo(a)anthracene	600	2,000	800	-	NA	NA	**1,400**	NA	**510 J**
Benzo(a)pyrene	200	200	200	-	NA	NA	**1,400**	NA	**730 J**
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	**1,100 J**	NA	**680 J**
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	**830 J**	NA	**380 J**
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	**1,200 J**	NA	**740 J**
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	< 1200	NA	**180 J**
Chrysene	62,000	230,000	80,000	-	NA	NA	**2,400**	NA	**840 J**
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	**310 J**	NA	< 1300
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	< 1200	NA	< 1300
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	< 1200	NA	< 1300
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	**2,300 B**	NA	**620 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	**3,400**	NA	**640 J**
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	< 1200	NA	< 1300
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	**780 J**	NA	**340 J**
Naphthalene	6,000	17,000	25,000	-	NA	NA	< 1200	NA	< 1300
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	**2,000**	NA	**270 J**
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	**2,700**	NA	**760 J**
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	**43,570**	NA	**25,800**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-76		FTMM02-B-77		FTMM02-B-78
Sample ID					FTMM02-SS-B-76-2-2	FTMM02-SS-B-76-2-2-Dup	FTMM02-SS-B-77-0-1.0	FTMM02-SS-B-77-2-2	FTMM02-SS-B-78-0-1.0
Sample Date					4/9/1999	4/9/1999	4/13/1999	4/13/1999	4/13/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	**0.056**	NA	**0.024**
4,4'-DDE	2	9	18	-	NA	NA	**0.039**	NA	**0.028**
4,4'-DDT	2	8	11	-	NA	NA	**0.028**	NA	< 0.0286
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	< 0.0123	NA	**0.017**
Dieldrin	0.04	0.2	0.003	-	NA	NA	< 0.0123	NA	< 0.013
Endrin	23	340	1	-	NA	NA	< 0.0123	NA	< 0.013
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	< 0.0098	NA	< 0.0104
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	< 0.0123	NA	**0.018**
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	< 0.0981	NA	< 0.1038
Aroclor-1248	0.2	1	NLE	-	NA	NA	< 0.0392	NA	< 0.0415
Aroclor-1254	0.2	1	NLE	-	NA	NA	< 0.0245	NA	< 0.026
Aroclor-1260	0.2	1	NLE	-	NA	NA	< 0.0221	NA	< 0.0234
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	**9,740**	NA	**6,670**
Antimony	31	450	6	ND	NA	NA	< 0.526	NA	**0.753**
Arsenic	19	19	19	22.9	NA	NA	**11.9**	NA	**6.13**
Barium	16,000	59,000	2,100	32.3	NA	NA	**60.4**	NA	**45.2**
Beryllium	16	140	0.7	2	NA	NA	**1.14**	NA	**0.499**
Cadmium	78	78	2	ND	NA	NA	**2.89**	NA	**0.742**
Calcium	NLE	NLE	NLE	921	NA	NA	**4,930**	NA	**10,100**
Chromium	NLE	NLE	NLE	269	NA	NA	**95.1**	NA	**55.6**
Cobalt	1,600	590	90	2.5	NA	NA	**2.59**	NA	**2.11**
Copper	3,100	45,000	11,000	8	NA	NA	**27**	NA	**26.7**
Iron	NLE	NLE	NLE	55,800	NA	NA	**26,800**	NA	**18,000**
Lead	400	800	90	19.5	NA	NA	**54**	NA	**87.2**
Magnesium	NLE	NLE	NLE	7,230	NA	NA	**3,780**	NA	**2,390**
Manganese	11,000	5,900	65	90.7	NA	NA	**685**	NA	**311**
Mercury	23	65	0.1	ND	NA	NA	**0.623**	NA	**0.31**
Nickel	1,600	23,000	48	8.4	NA	NA	**11.9**	NA	**8.11**
Potassium	NLE	NLE	NLE	15,400	NA	NA	**7,500**	NA	**3,540**
Selenium	390	5,700	11	1.9	NA	NA	**1.23**	NA	< 0.783
Silver	390	5,700	1	1.1	NA	NA	< 0.789	NA	< 0.783
Sodium	NLE	NLE	NLE	51.6	NA	NA	**151**	NA	**115**
Thallium	5	79	3	ND	NA	NA	< 0.789	NA	< 0.783
Vanadium	78	1,100	NLE	94.1	NA	NA	**42.7**	NA	**30.5**
Zinc	23,000	110,000	930	81.4	NA	NA	**422**	NA	**145**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-78	FTMM02-B-79		FTMM02-B-80	
Sample ID					FTMM02-SS-B-78-2-2	FTMM02-SS-B-79-0-1.0	FTMM02-SS-B-79-2-2	FTMM02-SS-B-80-0-1.0	FTMM02-SS-B-80-2-2
Sample Date					4/13/1999	4/13/1999	4/13/1999	4/13/1999	4/13/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 590	NA	< 630	NA	< 580
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 290	NA	< 310	NA	< 290
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 590	NA	< 630	NA	< 580
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 590	NA	< 630	NA	**1,100**
Toluene	6,300,000	91,000,000	7,000	-	< 290	NA	< 310	NA	< 290
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1400	NA	< 1500	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1400	NA	< 1500	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1400	NA	< 1500	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1400	NA	< 1500	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1400	NA	< 1500	NA
Benzo(a)anthracene	600	2,000	800	-	NA	< 1400	NA	< 1500	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1400	NA	< 1500	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1400	NA	< 1500	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1400	NA	< 1500	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1400	NA	< 1500	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	< 1400	NA	< 1500	NA
Chrysene	62,000	230,000	80,000	-	NA	**180 J**	NA	< 1500	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1400	NA	< 1500	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1400	NA	< 1500	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1400	NA	< 1500	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**180 JB**	NA	**230 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**150 J**	NA	< 1500	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1400	NA	< 1500	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1400	NA	< 1500	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1400	NA	< 1500	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1400	NA	< 1500	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	**180 J**	NA	< 1500	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**16,510**	NA	**72,100**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-78	FTMM02-B-79		FTMM02-B-80	
Sample ID					FTMM02-SS-B-78-2-2	FTMM02-SS-B-79-0-1.0	FTMM02-SS-B-79-2-2	FTMM02-SS-B-80-0-1.0	FTMM02-SS-B-80-2-2
Sample Date					4/13/1999	4/13/1999	4/13/1999	4/13/1999	4/13/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	**0.023**	NA	**0.043**	NA
4,4'-DDE	2	9	18	-	NA	**0.028**	NA	**0.047**	NA
4,4'-DDT	2	8	11	-	NA	< 0.0309	NA	**0.035**	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0141	NA	< 0.0144	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0141	NA	< 0.0144	NA
Endrin	23	340	1	-	NA	< 0.0141	NA	< 0.0144	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0112	NA	< 0.0115	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0141	NA	< 0.0144	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.1124	NA	< 0.1153	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.045	NA	< 0.0461	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0281	NA	< 0.0288	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0253	NA	< 0.026	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**6,570**	NA	**7,540**	NA
Antimony	31	450	6	ND	NA	< 0.556	NA	< 0.589	NA
Arsenic	19	19	19	22.9	NA	**6.87**	NA	**15.5**	NA
Barium	16,000	59,000	2,100	32.3	NA	**37.9**	NA	**34.4**	NA
Beryllium	16	140	0.7	2	NA	**0.574**	NA	**0.68**	NA
Cadmium	78	78	2	ND	NA	**0.408**	NA	< 0.147	NA
Calcium	NLE	NLE	NLE	921	NA	**6,570**	NA	**1,950**	NA
Chromium	NLE	NLE	NLE	269	NA	**53.1**	NA	**89.6**	NA
Cobalt	1,600	590	90	2.5	NA	**2.11**	NA	**1.01**	NA
Copper	3,100	45,000	11,000	8	NA	**99**	NA	**11.7**	NA
Iron	NLE	NLE	NLE	55,800	NA	**17,600**	NA	**24,100**	NA
Lead	400	800	90	19.5	NA	**57.7**	NA	**18.5**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**2,580**	NA	**2,110**	NA
Manganese	11,000	5,900	65	90.7	NA	**158**	NA	**31.2**	NA
Mercury	23	65	0.1	ND	NA	**0.376**	NA	**0.083**	NA
Nickel	1,600	23,000	48	8.4	NA	**6.97**	NA	**4.9**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**4,440**	NA	**5,070**	NA
Selenium	390	5,700	11	1.9	NA	< 0.834	NA	**0.93**	NA
Silver	390	5,700	1	1.1	NA	< 0.834	NA	< 0.884	NA
Sodium	NLE	NLE	NLE	51.6	NA	**158**	NA	**252**	NA
Thallium	5	79	3	ND	NA	< 0.834	NA	< 0.884	NA
Vanadium	78	1,100	NLE	94.1	NA	**30**	NA	**78.9**	NA
Zinc	23,000	110,000	930	81.4	NA	**126**	NA	**46.1**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-81		FTMM02-B-82		FTMM02-B-83
Sample ID					FTMM02-SS-B-81-0-1.0	FTMM02-SS-B-81-2-2	FTMM02-SS-B-82-0-1.0	FTMM02-SS-B-82-2-2	FTMM02-SS-B-83-0-1.0
Sample Date					4/14/1999	4/14/1999	4/14/1999	4/14/1999	4/14/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 540	NA	< 610	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 270	NA	< 300	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 540	NA	< 610	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 540	NA	< 610	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 270	NA	< 300	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1200	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1200	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	**1,500**	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	**780 J**	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	**9,500**	NA	**160 J**
Benzo(a)pyrene	200	200	200	-	< 1100	NA	**10,000 D**	NA	**150 J**
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	**13,000 D**	NA	**150 J**
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	**2,700**	NA	< 1200
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	**11,000 D**	NA	**150 J**
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 1200	NA	< 1200
Chrysene	62,000	230,000	80,000	-	< 1100	NA	**14,000 D**	NA	**260 J**
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	**2,000**	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1200	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**2,000 B**	NA	**260 JB**	NA	**170 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	**5,400**	NA	**270 J**
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1200	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	**3,300**	NA	< 1200
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1200	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	**220 J**	NA	**160 J**
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	**12,000 D**	NA	**300 J**
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**25,700**	NA	**39,930**	NA	**22,660**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-81		FTMM02-B-82		FTMM02-B-83
Sample ID					FTMM02-SS-B-81-0-1.0	FTMM02-SS-B-81-2-2	FTMM02-SS-B-82-0-1.0	FTMM02-SS-B-82-2-2	FTMM02-SS-B-83-0-1.0
Sample Date					4/14/1999	4/14/1999	4/14/1999	4/14/1999	4/14/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.065**	NA	**0.142**	NA	**0.018**
4,4'-DDE	2	9	18	-	**0.087**	NA	**0.088**	NA	**0.038**
4,4'-DDT	2	8	11	-	< 0.025	NA	**0.114**	NA	**0.027**
Alpha-Chlordane	NLE	1	NLE	-	< 0.0114	NA	**0.018**	NA	< 0.012
Dieldrin	0.04	0.2	0.003	-	< 0.0114	NA	< 0.0117	NA	< 0.012
Endrin	23	340	1	-	< 0.0114	NA	< 0.0117	NA	< 0.012
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0091	NA	< 0.0094	NA	< 0.0096
Gamma-Chlordane	0.2	1	NLE	-	< 0.0114	NA	**0.016**	NA	< 0.012
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3633	NA	< 0.3752	NA	< 0.3839
Aroclor-1248	0.2	1	NLE	-	< 0.1453	NA	< 0.1501	NA	< 0.1536
Aroclor-1254	0.2	1	NLE	-	< 0.0908	NA	< 0.0938	NA	< 0.096
Aroclor-1260	0.2	1	NLE	-	< 0.0817	NA	< 0.0844	NA	< 0.0864
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**13,900**	NA	**5,470**	NA	**7,290**
Antimony	31	450	6	ND	**0.782**	NA	**0.669**	NA	**1.1**
Arsenic	19	19	19	22.9	**18.4**	NA	**6.31**	NA	**14**
Barium	16,000	59,000	2,100	32.3	**80.9**	NA	**27.2**	NA	**47.5**
Beryllium	16	140	0.7	2	**1.59**	NA	**0.647**	NA	**0.915**
Cadmium	78	78	2	ND	< 0.122	NA	**0.112**	NA	**0.22**
Calcium	NLE	NLE	NLE	921	**4,200**	NA	**621**	NA	**2,240**
Chromium	NLE	NLE	NLE	269	**189**	NA	**56.3**	NA	**102**
Cobalt	1,600	590	90	2.5	**1.42**	NA	**1.1**	NA	**1.34**
Copper	3,100	45,000	11,000	8	**9.12**	NA	**6.57**	NA	**17.6**
Iron	NLE	NLE	NLE	55,800	**45,000**	NA	**18,200**	NA	**25,200**
Lead	400	800	90	19.5	**38.6**	NA	**11.3**	NA	**42.8**
Magnesium	NLE	NLE	NLE	7,230	**6,090**	NA	**1,650**	NA	**2,770**
Manganese	11,000	5,900	65	90.7	**34.1**	NA	**19.3**	NA	**102**
Mercury	23	65	0.1	ND	**0.117**	NA	**0.119**	NA	**0.566**
Nickel	1,600	23,000	48	8.4	**7.61**	NA	**4.39**	NA	**5.65**
Potassium	NLE	NLE	NLE	15,400	**13,100**	NA	**3,340**	NA	**5,950**
Selenium	390	5,700	11	1.9	**1.97**	NA	**0.787**	NA	**1.44**
Silver	390	5,700	1	1.1	< 0.733	NA	< 0.652	NA	< 0.751
Sodium	NLE	NLE	NLE	51.6	**203**	NA	**93.4**	NA	**116**
Thallium	5	79	3	ND	< 0.733	NA	< 0.652	NA	< 0.751
Vanadium	78	1,100	NLE	94.1	**70.1**	NA	**26.2**	NA	**53.7**
Zinc	23,000	110,000	930	81.4	**74.4**	NA	**59.6**	NA	**82.1**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-83	FTMM02-B-84		FTMM02-B-85	
Sample ID					FTMM02-SS-B-83-2-2	FTMM02-SS-B-84-0-1.0	FTMM02-SS-B-84-2-2	FTMM02-SS-B-85-0-1.0	FTMM02-SS-B-85-2-2
Sample Date					4/14/1999	4/14/1999	4/14/1999	4/14/1999	4/14/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 620	NA	< 600	NA	< 540
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 310	NA	< 300	NA	< 270
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 620	NA	< 600	NA	< 540
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 620	NA	< 600	NA	< 540
Toluene	6,300,000	91,000,000	7,000	-	< 310	NA	**360**	NA	< 270
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1400	NA	< 1200	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1400	NA	< 1200	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1400	NA	< 1200	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1400	NA	< 1200	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1400	NA	< 1200	NA
Benzo(a)anthracene	600	2,000	800	-	NA	**140 J**	NA	**140 J**	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1400	NA	< 1200	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	**150 J**	NA	< 1200	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1400	NA	< 1200	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	**140 J**	NA	< 1200	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**180 J**	NA	< 1200	NA
Chrysene	62,000	230,000	80,000	-	NA	**240 J**	NA	**310 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1400	NA	< 1200	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1400	NA	< 1200	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1400	NA	< 1200	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**1,200 JB**	NA	**22,000 BD**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**230 J**	NA	**250 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1400	NA	< 1200	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1400	NA	< 1200	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1400	NA	< 1200	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	**100 J**	NA	**390 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	**250 J**	NA	**380 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**22,700**	NA	**27,090**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-83	FTMM02-B-84		FTMM02-B-85	
Sample ID					FTMM02-SS-B-83-2-2	FTMM02-SS-B-84-0-1.0	FTMM02-SS-B-84-2-2	FTMM02-SS-B-85-0-1.0	FTMM02-SS-B-85-2-2
Sample Date					4/14/1999	4/14/1999	4/14/1999	4/14/1999	4/14/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	**0.017**	NA	**0.098**	NA
4,4'-DDE	2	9	18	-	NA	**0.055**	NA	**0.068**	NA
4,4'-DDT	2	8	11	-	NA	**0.085**	NA	< 0.0256	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	**0.02**	NA	< 0.0116	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0137	NA	< 0.0116	NA
Endrin	23	340	1	-	NA	< 0.0137	NA	< 0.0116	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.011	NA	< 0.0093	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	**0.028**	NA	< 0.0116	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.1097	NA	< 0.3719	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.0439	NA	< 0.1488	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0274	NA	< 0.093	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0247	NA	< 0.0837	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**5,280**	NA	**6,500**	NA
Antimony	31	450	6	ND	NA	**1.46**	NA	**0.629**	NA
Arsenic	19	19	19	22.9	NA	**7.15**	NA	**12.7**	NA
Barium	16,000	59,000	2,100	32.3	NA	**48.8**	NA	**88.7**	NA
Beryllium	16	140	0.7	2	NA	**0.571**	NA	**1.14**	NA
Cadmium	78	78	2	ND	NA	**0.771**	NA	**0.174**	NA
Calcium	NLE	NLE	NLE	921	NA	**4,870**	NA	**8,710**	NA
Chromium	NLE	NLE	NLE	269	NA	**52.8**	NA	**92.4**	NA
Cobalt	1,600	590	90	2.5	NA	**3.5**	NA	**1.73**	NA
Copper	3,100	45,000	11,000	8	NA	**38.6**	NA	**7.22**	NA
Iron	NLE	NLE	NLE	55,800	NA	**17,600**	NA	**25,500**	NA
Lead	400	800	90	19.5	NA	**89.9**	NA	**33.4**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**1,870**	NA	**2,900**	NA
Manganese	11,000	5,900	65	90.7	NA	**198**	NA	**28.7**	NA
Mercury	23	65	0.1	ND	NA	**0.254**	NA	**0.097**	NA
Nickel	1,600	23,000	48	8.4	NA	**12.9**	NA	**6.44**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**2,760**	NA	**6,990**	NA
Selenium	390	5,700	11	1.9	NA	**1.37**	NA	**2.5**	NA
Silver	390	5,700	1	1.1	NA	< 0.863	NA	< 0.701	NA
Sodium	NLE	NLE	NLE	51.6	NA	**185**	NA	**380**	NA
Thallium	5	79	3	ND	NA	< 0.863	NA	< 0.701	NA
Vanadium	78	1,100	NLE	94.1	NA	**28.3**	NA	**22.1**	NA
Zinc	23,000	110,000	930	81.4	NA	**215**	NA	**81.8**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-86		FTMM02-B-87		FTMM02-B-88
Sample ID					FTMM02-SS-B-86-0-1.0	FTMM02-SS-B-86-2-2	FTMM02-SS-B-87-0-1.0	FTMM02-SS-B-87-2-2	FTMM02-SS-B-88-0-1.0
Sample Date					4/14/1999	4/14/1999	4/16/1999	4/16/1999	4/16/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 550	NA	< 560	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 280	NA	< 280	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 550	NA	< 560	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 550	NA	**1,400**	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 280	NA	< 280	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**3,600**	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1100	NA	< 1100	NA	< 1200
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1100	NA	< 1100	NA	< 1200
Acenaphthylene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA	< 1200
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1100	NA	< 1100	NA	< 1200
Azobenzene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1200
Benzo(a)anthracene	600	2,000	800	-	< 1100	NA	< 1100	NA	< 1200
Benzo(a)pyrene	200	200	200	-	< 1100	NA	< 1100	NA	< 1200
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1100	NA	< 1100	NA	**130 J**
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1100	NA	< 1100	NA	< 1200
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1100	NA	< 1100	NA	< 1200
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1100	NA	< 1100	NA	< 1200
Chrysene	62,000	230,000	80,000	-	< 1100	NA	**120 J**	NA	**230 J**
Dibenz(a,h)anthracene	200	200	800	-	< 1100	NA	< 1100	NA	< 1200
Dibenzofuran	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1200
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1100	NA	< 1100	NA	< 1200
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**840 JB**	NA	**220 JB**	NA	**1,100 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	< 1100	NA	< 1100	NA	**180 J**
Fluorene	2,300,000	24,000,000	170,000	-	< 1100	NA	< 1100	NA	< 1200
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1100	NA	< 1100	NA	< 1200
Naphthalene	6,000	17,000	25,000	-	< 1100	NA	< 1100	NA	< 1200
Phenanthrene	NLE	300,000,000	NLE	-	< 1100	NA	< 1100	NA	< 1200
Pyrene	1,700,000	18,000,000	840,000	-	< 1100	NA	**130 J**	NA	**190 J**
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**31,930**	NA	**14,760**	NA	**30,130**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-86		FTMM02-B-87		FTMM02-B-88
Sample ID					FTMM02-SS-B-86-0-1.0	FTMM02-SS-B-86-2-2	FTMM02-SS-B-87-0-1.0	FTMM02-SS-B-87-2-2	FTMM02-SS-B-88-0-1.0
Sample Date					4/14/1999	4/14/1999	4/16/1999	4/16/1999	4/16/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.14**	NA	**0.149**	NA	**0.13**
4,4'-DDE	2	9	18	-	**0.098**	NA	**0.044**	NA	**0.089**
4,4'-DDT	2	8	11	-	< 0.0255	NA	< 0.0244	NA	**0.171**
Alpha-Chlordane	NLE	1	NLE	-	< 0.0116	NA	< 0.0111	NA	< 0.0118
Dieldrin	0.04	0.2	0.003	-	< 0.0116	NA	< 0.0111	NA	**0.018**
Endrin	23	340	1	-	< 0.0116	NA	< 0.0111	NA	< 0.0118
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0093	NA	< 0.0089	NA	< 0.0094
Gamma-Chlordane	0.2	1	NLE	-	< 0.0116	NA	< 0.0111	NA	< 0.0118
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3708	NA	< 0.3554	NA	< 0.3763
Aroclor-1248	0.2	1	NLE	-	< 0.1483	NA	< 0.1422	NA	< 0.1505
Aroclor-1254	0.2	1	NLE	-	< 0.0927	NA	< 0.0889	NA	< 0.0941
Aroclor-1260	0.2	1	NLE	-	< 0.0834	NA	< 0.08	NA	< 0.0847
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**6,390**	NA	**9,620**	NA	**8,960**
Antimony	31	450	6	ND	**0.775**	NA	**1**	NA	**1.02**
Arsenic	19	19	19	22.9	**12.7**	NA	**15.3**	NA	**8.91**
Barium	16,000	59,000	2,100	32.3	**74.1**	NA	**47.3**	NA	**43.8**
Beryllium	16	140	0.7	2	**1.6**	NA	**0.944**	NA	**1.23**
Cadmium	78	78	2	ND	**2.94**	NA	< 0.116	NA	**0.286**
Calcium	NLE	NLE	NLE	921	**5,160**	NA	**1,430**	NA	**1,290**
Chromium	NLE	NLE	NLE	269	**75.5**	NA	**66.9**	NA	**105**
Cobalt	1,600	590	90	2.5	**2.53**	NA	**1.31**	NA	**1.65**
Copper	3,100	45,000	11,000	8	**7.53**	NA	**12.3**	NA	**9.7**
Iron	NLE	NLE	NLE	55,800	**18,700**	NA	**20,900**	NA	**26,000**
Lead	400	800	90	19.5	**21.4**	NA	**38.9**	NA	**19.6**
Magnesium	NLE	NLE	NLE	7,230	**2,200**	NA	**1,860**	NA	**3,200**
Manganese	11,000	5,900	65	90.7	**22.5**	NA	**28**	NA	**31.3**
Mercury	23	65	0.1	ND	**0.121**	NA	**0.136**	NA	**0.034**
Nickel	1,600	23,000	48	8.4	**15.7**	NA	**7.53**	NA	**7.71**
Potassium	NLE	NLE	NLE	15,400	**5,020**	NA	**3,800**	NA	**6,130**
Selenium	390	5,700	11	1.9	**2.49**	NA	**1.77**	NA	**1.62**
Silver	390	5,700	1	1.1	< 0.712	NA	< 0.696	NA	< 0.736
Sodium	NLE	NLE	NLE	51.6	**648**	NA	**544**	NA	**141**
Thallium	5	79	3	ND	< 0.712	NA	< 0.696	NA	< 0.736
Vanadium	78	1,100	NLE	94.1	**20.6**	NA	**27.1**	NA	**41**
Zinc	23,000	110,000	930	81.4	**106**	NA	**56.7**	NA	**91**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-88	FTMM02-B-89		FTMM02-B-90	
Sample ID					FTMM02-SS-B-88-2-2	FTMM02-SS-B-89-0-1.0	FTMM02-SS-B-89-2-2	FTMM02-SS-B-90-0-1.0	FTMM02-SS-B-90-2-2
Sample Date					4/16/1999	4/16/1999	4/16/1999	4/16/1999	4/16/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 690	NA	< 580	NA	< 650
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 350	NA	< 290	NA	< 320
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 690	NA	< 580	NA	< 650
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	**1,600**	NA	**1,400**	NA	**1,500**
Toluene	6,300,000	91,000,000	7,000	-	< 350	NA	< 290	NA	< 320
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	**2,000**	NA	**3,900**
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1800	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1800	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1800	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	< 1800	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1800	NA
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	**500 J**	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	**480 J**	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	**440 J**	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	< 1800	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	**490 J**	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	< 1100	NA	< 1800	NA
Chrysene	62,000	230,000	80,000	-	NA	< 1100	NA	**820 J**	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1800	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1800	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1800	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**200 JB**	NA	**1,000 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**150 J**	NA	**770 J**	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1800	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	**290 J**	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1800	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1100	NA	**440 J**	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	**200 J**	NA	**960 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**10,480**	NA	**50,100**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-88	FTMM02-B-89		FTMM02-B-90	
Sample ID					FTMM02-SS-B-88-2-2	FTMM02-SS-B-89-0-1.0	FTMM02-SS-B-89-2-2	FTMM02-SS-B-90-0-1.0	FTMM02-SS-B-90-2-2
Sample Date					4/16/1999	4/16/1999	4/16/1999	4/16/1999	4/16/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	**0.014**	NA	< 0.0217	NA
4,4'-DDE	2	9	18	-	NA	< 0.0089	NA	**0.055**	NA
4,4'-DDT	2	8	11	-	NA	< 0.0245	NA	**0.066**	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0111	NA	**0.022**	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0111	NA	< 0.0181	NA
Endrin	23	340	1	-	NA	< 0.0111	NA	< 0.0181	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0089	NA	< 0.0145	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	**0.014**	NA	< 0.0181	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3558	NA	< 0.1448	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1423	NA	< 0.0579	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0889	NA	< 0.0362	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0801	NA	< 0.0326	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**12,700**	NA	**11,600**	NA
Antimony	31	450	6	ND	NA	**0.863**	NA	**1.02**	NA
Arsenic	19	19	19	22.9	NA	**9.98**	NA	**7.36**	NA
Barium	16,000	59,000	2,100	32.3	NA	**49.4**	NA	**53.3**	NA
Beryllium	16	140	0.7	2	NA	**1.12**	NA	**0.843**	NA
Cadmium	78	78	2	ND	NA	**0.353**	NA	**1.17**	NA
Calcium	NLE	NLE	NLE	921	NA	**3,940**	NA	**7,830**	NA
Chromium	NLE	NLE	NLE	269	NA	**104**	NA	**79.1**	NA
Cobalt	1,600	590	90	2.5	NA	**1.83**	NA	**3.7**	NA
Copper	3,100	45,000	11,000	8	NA	**20.2**	NA	**25.4**	NA
Iron	NLE	NLE	NLE	55,800	NA	**30,800**	NA	**27,000**	NA
Lead	400	800	90	19.5	NA	**36.1**	NA	**76.6**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**3,590**	NA	**4,180**	NA
Manganese	11,000	5,900	65	90.7	NA	**62.4**	NA	**131**	NA
Mercury	23	65	0.1	ND	NA	**0.034**	NA	**0.034**	NA
Nickel	1,600	23,000	48	8.4	NA	**8.31**	NA	**15**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**7,710**	NA	**5,300**	NA
Selenium	390	5,700	11	1.9	NA	**0.837**	NA	**1.39**	NA
Silver	390	5,700	1	1.1	NA	< 0.705	NA	< 1.117	NA
Sodium	NLE	NLE	NLE	51.6	NA	**770**	NA	**328**	NA
Thallium	5	79	3	ND	NA	< 0.705	NA	< 1.117	NA
Vanadium	78	1,100	NLE	94.1	NA	**52.7**	NA	**77.8**	NA
Zinc	23,000	110,000	930	81.4	NA	**99.9**	NA	**150**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-91		FTMM02-B-92		FTMM02-B-93
Sample ID					FTMM02-SS-B-91-0-1.0	FTMM02-SS-B-91-2-2	FTMM02-SS-B-92-0-1.0	FTMM02-SS-B-92-2-2	FTMM02-SS-B-93-0-1.0
Sample Date					4/16/1999	4/16/1999	4/21/1999	4/21/1999	4/21/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 670	NA	< 640	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 330	NA	< 320	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 670	NA	< 640	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	**1,500**	NA	< 640	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 330	NA	< 320	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**4,000**	NA	**3,200**	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1200	NA	< 1300	NA	< 1100
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1200	NA	< 1300	NA	< 1100
Acenaphthylene	NLE	300,000,000	NLE	-	< 1200	NA	< 1300	NA	< 1100
Anthracene	17,000,000	30,000,000	2,400,000	-	< 1200	NA	< 1300	NA	< 1100
Azobenzene	NLE	NLE	NLE	-	< 1200	NA	< 1300	NA	< 1100
Benzo(a)anthracene	600	2,000	800	-	< 1200	NA	**190 J**	NA	< 1100
Benzo(a)pyrene	200	200	200	-	< 1200	NA	**210 J**	NA	< 1100
Benzo(b)fluoranthene	600	2,000	2,000	-	< 1200	NA	**210 J**	NA	< 1100
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	< 1200	NA	< 1300	NA	< 1100
Benzo(k)fluoranthene	6,000	23,000	25,000	-	< 1200	NA	**210 J**	NA	< 1100
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	< 1200	NA	< 1300	NA	**180 JB**
Chrysene	62,000	230,000	80,000	-	**150 J**	NA	**340 J**	NA	< 1100
Dibenz(a,h)anthracene	200	200	800	-	< 1200	NA	< 1300	NA	< 1100
Dibenzofuran	NLE	NLE	NLE	-	< 1200	NA	< 1300	NA	< 1100
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1200	NA	< 1300	NA	< 1100
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**560 JB**	NA	< 1300	NA	**510 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**150 J**	NA	**390 J**	NA	< 1100
Fluorene	2,300,000	24,000,000	170,000	-	< 1200	NA	< 1300	NA	< 1100
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	< 1200	NA	< 1300	NA	< 1100
Naphthalene	6,000	17,000	25,000	-	< 1200	NA	< 1300	NA	< 1100
Phenanthrene	NLE	300,000,000	NLE	-	< 1200	NA	**290 J**	NA	< 1100
Pyrene	1,700,000	18,000,000	840,000	-	**180 J**	NA	**430 J**	NA	< 1100
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**4,320**	NA	**13,960**	NA	ND

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-91		FTMM02-B-92		FTMM02-B-93
Sample ID					FTMM02-SS-B-91-0-1.0	FTMM02-SS-B-91-2-2	FTMM02-SS-B-92-0-1.0	FTMM02-SS-B-92-2-2	FTMM02-SS-B-93-0-1.0
Sample Date					4/16/1999	4/16/1999	4/21/1999	4/21/1999	4/21/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	< 0.0138	NA	**0.037**	NA	**0.027**
4,4'-DDE	2	9	18	-	**0.018**	NA	**0.055**	NA	**0.022**
4,4'-DDT	2	8	11	-	**0.037**	NA	**0.031**	NA	< 0.0253
Alpha-Chlordane	NLE	1	NLE	-	< 0.0115	NA	**0.046**	NA	< 0.0115
Dieldrin	0.04	0.2	0.003	-	< 0.0115	NA	< 0.0132	NA	< 0.0115
Endrin	23	340	1	-	< 0.0115	NA	< 0.0132	NA	< 0.0115
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0092	NA	< 0.0106	NA	< 0.0092
Gamma-Chlordane	0.2	1	NLE	-	< 0.0115	NA	**0.041**	NA	< 0.0115
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.3683	NA	< 0.1055	NA	< 0.3678
Aroclor-1248	0.2	1	NLE	-	< 0.1473	NA	< 0.0422	NA	< 0.1471
Aroclor-1254	0.2	1	NLE	-	< 0.0921	NA	< 0.0264	NA	< 0.092
Aroclor-1260	0.2	1	NLE	-	< 0.0829	NA	< 0.0237	NA	< 0.0828
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**13,100**	NA	**11,000**	NA	**6,590**
Antimony	31	450	6	ND	**1.78**	NA	**1.16**	NA	**0.525**
Arsenic	19	19	19	22.9	**14.9**	NA	**10.6**	NA	**9.64**
Barium	16,000	59,000	2,100	32.3	**34**	NA	**75.4**	NA	**44.8**
Beryllium	16	140	0.7	2	**1.08**	NA	**0.983**	NA	**1.19**
Cadmium	78	78	2	ND	< 0.111	NA	**0.287**	NA	**0.639**
Calcium	NLE	NLE	NLE	921	**1,940**	NA	**5,850**	NA	**769**
Chromium	NLE	NLE	NLE	269	**114**	NA	**99.4**	NA	**92.8**
Cobalt	1,600	590	90	2.5	**1.84**	NA	**2.42**	NA	**1.69**
Copper	3,100	45,000	11,000	8	**15.4**	NA	**39.6**	NA	**7.38**
Iron	NLE	NLE	NLE	55,800	**31,200**	NA	**29,600**	NA	**21,500**
Lead	400	800	90	19.5	**122**	NA	**74.9**	NA	**17.6**
Magnesium	NLE	NLE	NLE	7,230	**3,810**	NA	**3,830**	NA	**2,350**
Manganese	11,000	5,900	65	90.7	**71.5**	NA	**123**	NA	**20.7**
Mercury	23	65	0.1	ND	**0.034**	NA	**0.332**	NA	**0.108**
Nickel	1,600	23,000	48	8.4	**7.75**	NA	**16.6**	NA	**7.3**
Potassium	NLE	NLE	NLE	15,400	**7,020**	NA	**6,700**	NA	**5,050**
Selenium	390	5,700	11	1.9	**1.28**	NA	**1.27**	NA	**1.97**
Silver	390	5,700	1	1.1	< 0.668	NA	< 0.791	NA	< 0.722
Sodium	NLE	NLE	NLE	51.6	**113**	NA	**279**	NA	**101**
Thallium	5	79	3	ND	< 0.668	NA	< 0.791	NA	< 0.722
Vanadium	78	1,100	NLE	94.1	**58.4**	NA	**52**	NA	**39.4**
Zinc	23,000	110,000	930	81.4	**84.9**	NA	**294**	NA	**63.4**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-93	FTMM02-B-94		FTMM02-B-95	
Sample ID					FTMM02-SS-B-93-2-2	FTMM02-SS-B-94-0-1.0	FTMM02-SS-B-94-2-2	FTMM02-SS-B-95-0-1.0	FTMM02-SS-B-95-2-2
Sample Date					4/21/1999	4/21/1999	4/21/1999	4/21/1999	4/21/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	< 530	NA	< 530	NA	< 520
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	< 260	NA	< 270	NA	< 260
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 530	NA	< 530	NA	< 520
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	< 530	NA	< 530	NA	< 520
Toluene	6,300,000	91,000,000	7,000	-	< 260	NA	< 270	NA	< 260
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	< 1800	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	< 1800	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	< 1800	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	**120 J**	NA	< 1800	NA
Azobenzene	NLE	NLE	NLE	-	NA	**99 J**	NA	< 1800	NA
Benzo(a)anthracene	600	2,000	800	-	NA	**130 J**	NA	< 1800	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	< 1800	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	**120 J**	NA	< 1800	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	< 1800	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	**150 J**	NA	< 1800	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	**180 JB**	NA	< 1800	NA
Chrysene	62,000	230,000	80,000	-	NA	**230 J**	NA	< 1800	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	< 1800	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	< 1800	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	< 1800	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**210 JB**	NA	**440 JB**	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**170 J**	NA	< 1800	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	< 1800	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	< 1800	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	< 1800	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	**120 J**	NA	< 1800	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	**180 J**	NA	< 1800	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	ND	NA	**83,280**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-93	FTMM02-B-94		FTMM02-B-95	
Sample ID					FTMM02-SS-B-93-2-2	FTMM02-SS-B-94-0-1.0	FTMM02-SS-B-94-2-2	FTMM02-SS-B-95-0-1.0	FTMM02-SS-B-95-2-2
Sample Date					4/21/1999	4/21/1999	4/21/1999	4/21/1999	4/21/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	**0.118**	NA	< 0.0211	NA
4,4'-DDE	2	9	18	-	NA	**0.095**	NA	**0.066**	NA
4,4'-DDT	2	8	11	-	NA	< 0.0248	NA	**0.044**	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0113	NA	**0.029**	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0113	NA	< 0.0176	NA
Endrin	23	340	1	-	NA	< 0.0113	NA	< 0.0176	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.009	NA	< 0.0141	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0113	NA	**0.028**	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.3602	NA	< 0.1409	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1441	NA	< 0.0564	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.09	NA	< 0.0352	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.081	NA	< 0.0317	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	**8,610**	NA	**12,000**	NA
Antimony	31	450	6	ND	NA	**0.728**	NA	**1.62**	NA
Arsenic	19	19	19	22.9	NA	**9.41**	NA	**9.77**	NA
Barium	16,000	59,000	2,100	32.3	NA	**39.2**	NA	**104**	NA
Beryllium	16	140	0.7	2	NA	**1.35**	NA	**1.07**	NA
Cadmium	78	78	2	ND	NA	**0.171**	NA	**0.772**	NA
Calcium	NLE	NLE	NLE	921	NA	**1,550**	NA	**14,900**	NA
Chromium	NLE	NLE	NLE	269	NA	**119**	NA	**86.3**	NA
Cobalt	1,600	590	90	2.5	NA	**2.34**	NA	**3.06**	NA
Copper	3,100	45,000	11,000	8	NA	**9.85**	NA	**53.7**	NA
Iron	NLE	NLE	NLE	55,800	NA	**28,700**	NA	**29,800**	NA
Lead	400	800	90	19.5	NA	**23.4**	NA	**121**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**3,580**	NA	**4,170**	NA
Manganese	11,000	5,900	65	90.7	NA	**27.9**	NA	**362**	NA
Mercury	23	65	0.1	ND	NA	**0.135**	NA	**0.458**	NA
Nickel	1,600	23,000	48	8.4	NA	**9.14**	NA	**14.4**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**7,410**	NA	**6,760**	NA
Selenium	390	5,700	11	1.9	NA	**1.76**	NA	**1.25**	NA
Silver	390	5,700	1	1.1	NA	< 0.666	NA	< 0.965	NA
Sodium	NLE	NLE	NLE	51.6	NA	**142**	NA	**217**	NA
Thallium	5	79	3	ND	NA	< 0.666	NA	< 0.965	NA
Vanadium	78	1,100	NLE	94.1	NA	**45.4**	NA	**49.8**	NA
Zinc	23,000	110,000	930	81.4	NA	**81.1**	NA	**273**	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-96		FTMM02-B-97		FTMM02-B-98
Sample ID					FTMM02-SS-B-96-0-1.0	FTMM02-SS-B-96-2-2	FTMM02-SS-B-97-0-1.0	FTMM02-SS-B-97-2-2	FTMM02-SS-B-98-0-1.0
Sample Date					4/21/1999	4/21/1999	4/26/1999	4/26/1999	4/26/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	< 500	NA	< 600	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	< 250	NA	< 300	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	< 500	NA	< 600	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	< 500	NA	< 600	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	< 250	NA	< 300	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**2,200**	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 1200	NA	< 1200	NA	< 1400
Acenaphthene	3,400,000	37,000,000	110,000	-	< 1200	NA	< 1200	NA	< 1400
Acenaphthylene	NLE	300,000,000	NLE	-	< 1200	NA	< 1200	NA	< 1400
Anthracene	17,000,000	30,000,000	2,400,000	-	**470 J**	NA	< 1200	NA	< 1400
Azobenzene	NLE	NLE	NLE	-	< 1200	NA	< 1200	NA	< 1400
Benzo(a)anthracene	600	2,000	800	-	**1,400**	NA	**440 J**	NA	**150 J**
Benzo(a)pyrene	200	200	200	-	**1,000 J**	NA	**380 J**	NA	< 1400
Benzo(b)fluoranthene	600	2,000	2,000	-	**1,000 J**	NA	**330 J**	NA	< 1400
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	**540 J**	NA	**150 J**	NA	< 1400
Benzo(k)fluoranthene	6,000	23,000	25,000	-	**1,100 J**	NA	**380 J**	NA	< 1400
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	**210 JB**	NA	**2,000 B**	NA	< 1400
Chrysene	62,000	230,000	80,000	-	**2,400**	NA	**500 J**	NA	**220 J**
Dibenz(a,h)anthracene	200	200	800	-	< 1200	NA	< 1200	NA	< 1400
Dibenzofuran	NLE	NLE	NLE	-	< 1200	NA	< 1200	NA	< 1400
Diethyl phthalate	49,000,000	550,000,000	88,000	-	< 1200	NA	< 1200	NA	< 1400
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	**620 JB**	NA	**190 JB**	NA	**330 JB**
Fluoranthene	2,300,000	24,000,000	1,300,000	-	**3,600**	NA	**300 J**	NA	**180 J**
Fluorene	2,300,000	24,000,000	170,000	-	**160 J**	NA	< 1200	NA	< 1400
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	**470 J**	NA	< 1200	NA	< 1400
Naphthalene	6,000	17,000	25,000	-	< 1200	NA	< 1200	NA	< 1400
Phenanthrene	NLE	300,000,000	NLE	-	**2,800**	NA	< 1200	NA	< 1400
Pyrene	1,700,000	18,000,000	840,000	-	**3,300**	NA	**310 J**	NA	**170 J**
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**15,170**	NA	**1,600**	NA	**27,330**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-B-96		FTMM02-B-97		FTMM02-B-98
Sample ID					FTMM02-SS-B-96-0-1.0	FTMM02-SS-B-96-2-2	FTMM02-SS-B-97-0-1.0	FTMM02-SS-B-97-2-2	FTMM02-SS-B-98-0-1.0
Sample Date					4/21/1999	4/21/1999	4/26/1999	4/26/1999	4/26/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	**0.041**	NA	**0.033**	NA	**0.026**
4,4'-DDE	2	9	18	-	**0.066**	NA	**0.082**	NA	**0.067**
4,4'-DDT	2	8	11	-	**0.194**	NA	**0.225**	NA	**0.076**
Alpha-Chlordane	NLE	1	NLE	-	< 0.0121	NA	< 0.0124	NA	**0.023**
Dieldrin	0.04	0.2	0.003	-	< 0.0121	NA	< 0.0124	NA	< 0.0143
Endrin	23	340	1	-	< 0.0121	NA	< 0.0124	NA	< 0.0143
Gamma-BHC/Lindane	0.4	2	0.002	-	< 0.0097	NA	< 0.0099	NA	< 0.0114
Gamma-Chlordane	0.2	1	NLE	-	**0.013**	NA	< 0.0124	NA	**0.027**
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	< 0.097	NA	< 0.0992	NA	< 0.1144
Aroclor-1248	0.2	1	NLE	-	< 0.0388	NA	< 0.0397	NA	< 0.0457
Aroclor-1254	0.2	1	NLE	-	< 0.0243	NA	< 0.0248	NA	< 0.0286
Aroclor-1260	0.2	1	NLE	-	< 0.0218	NA	< 0.0223	NA	< 0.0257
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	**10,700**	NA	**11,300**	NA	**7,130**
Antimony	31	450	6	ND	**1.15**	NA	**3.19**	NA	**1.34**
Arsenic	19	19	19	22.9	**7.74**	NA	**9.27**	NA	**7.03**
Barium	16,000	59,000	2,100	32.3	**44.2**	NA	**41.3**	NA	**47.7**
Beryllium	16	140	0.7	2	**0.835**	NA	**0.83**	NA	**0.651**
Cadmium	78	78	2	ND	**156**	NA	**2.68**	NA	**0.71**
Calcium	NLE	NLE	NLE	921	**3,110**	NA	**3,770**	NA	**5,210**
Chromium	NLE	NLE	NLE	269	**81.4**	NA	**80.9**	NA	**59.9**
Cobalt	1,600	590	90	2.5	**2.48**	NA	**2.53**	NA	**2.15**
Copper	3,100	45,000	11,000	8	**33.4**	NA	**30.6**	NA	**27.2**
Iron	NLE	NLE	NLE	55,800	**24,400**	NA	**27,600**	NA	**19,200**
Lead	400	800	90	19.5	**59.6**	NA	**69.4**	NA	**147**
Magnesium	NLE	NLE	NLE	7,230	**2,970**	NA	**3,130**	NA	**2,520**
Manganese	11,000	5,900	65	90.7	**204**	NA	**121**	NA	**195**
Mercury	23	65	0.1	ND	**0.259**	NA	**0.146**	NA	**0.177**
Nickel	1,600	23,000	48	8.4	**9.31**	NA	**8.83**	NA	**7.52**
Potassium	NLE	NLE	NLE	15,400	**5,560**	NA	**5,170**	NA	**4,280**
Selenium	390	5,700	11	1.9	< 0.803	NA	**1.19**	NA	< 0.811
Silver	390	5,700	1	1.1	< 0.803	NA	< 0.762	NA	< 0.811
Sodium	NLE	NLE	NLE	51.6	**165**	NA	**143**	NA	**197**
Thallium	5	79	3	ND	< 0.803	NA	< 0.762	NA	< 0.811
Vanadium	78	1,100	NLE	94.1	**43.5**	NA	**47.9**	NA	**32.7**
Zinc	23,000	110,000	930	81.4	**131**	NA	**164**	NA	**208**

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)		FTMM02-B-99		FTMM02-M2-67E
Sample ID					FTMM02-SS-B-98-2-2	FTMM02-SS-B-99-0-1.0	FTMM02-SS-B-99-2-2	FTMM02-SS-M2-67E-8-8
Sample Date					4/26/1999	4/26/1999	4/26/1999	12/7/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	< 610	NA	< 560	ND
Benzene	2,000	5,000	5	-	NA	NA	NA	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	ND
Chlorobenzene	510,000	7,400,000	600	-	< 300	NA	< 280	ND
Chloroform	600	2,000	400	-	NA	NA	NA	**410**
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 610	NA	< 560	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	ND
Methylene chloride	34,000	97,000	10	-	< 610	NA	< 560	ND
Toluene	6,300,000	91,000,000	7,000	-	< 300	NA	< 280	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	**2,400**	NA	**2,200**	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	< 1100	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	< 1100	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	< 1100	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	< 1100	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	< 1100	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	< 1100	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	< 1100	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	< 1100	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	< 1100	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	< 1100	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	< 1100	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	**170 J**	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	< 1100	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	< 1100	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	< 1100	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	**140 JB**	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	**130 J**	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	< 1100	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	< 1100	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	< 1100	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	< 1100	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	**170 J**	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**37,800**	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)		FTMM02-B-99		FTMM02-M2-67E
Sample ID					FTMM02-SS-B-98-2-2	FTMM02-SS-B-99-0-1.0	FTMM02-SS-B-99-2-2	FTMM02-SS-M2-67E-8-8
Sample Date					4/26/1999	4/26/1999	4/26/1999	12/7/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	**0.088**	NA	NA
4,4'-DDE	2	9	18	-	NA	**0.044**	NA	NA
4,4'-DDT	2	8	11	-	NA	**0.047**	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	< 0.0109	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	< 0.0109	NA	NA
Endrin	23	340	1	-	NA	< 0.0109	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	< 0.0087	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	< 0.0109	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	< 0.349	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	< 0.1396	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	< 0.0873	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	< 0.0785	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	**12,700**	NA	NA
Antimony	31	450	6	ND	NA	**0.731**	NA	NA
Arsenic	19	19	19	22.9	NA	**11.3**	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	**31.1**	NA	NA
Beryllium	16	140	0.7	2	NA	**1.67**	NA	NA
Cadmium	78	78	2	ND	NA	**0.384**	NA	NA
Calcium	NLE	NLE	NLE	921	NA	**1,060**	NA	NA
Chromium	NLE	NLE	NLE	269	NA	**188**	NA	NA
Cobalt	1,600	590	90	2.5	NA	**0.852**	NA	NA
Copper	3,100	45,000	11,000	8	NA	**8.96**	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	**42,600**	NA	NA
Lead	400	800	90	19.5	NA	**14.9**	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**5,910**	NA	NA
Manganese	11,000	5,900	65	90.7	NA	**26.6**	NA	NA
Mercury	23	65	0.1	ND	NA	**0.092**	NA	NA
Nickel	1,600	23,000	48	8.4	NA	**5.04**	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	**13,700**	NA	NA
Selenium	390	5,700	11	1.9	NA	**1.1**	NA	NA
Silver	390	5,700	1	1.1	NA	< 0.691	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	**118**	NA	NA
Thallium	5	79	3	ND	NA	< 0.691	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	**64.8**	NA	NA
Zinc	23,000	110,000	930	81.4	NA	**70.9**	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-67E	FTMM02-M2-B-1		
Sample ID					FTMM02-SS-M2-67E-8-8-Dup	FTMM02-SS-M2-B-1-0-0.5	FTMM02-SS-M2-B-1-1-1.5	FTMM02-SS-M2-B-1-2-2.5
Sample Date					12/7/1999	2/17/1999	2/17/1999	2/17/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	NA	NA	NA
Benzene	2,000	5,000	5	-	ND	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	ND	NA	NA	NA
Chloroform	600	2,000	400	-	**440**	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	ND	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	ND	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**NJ Residential DCSRS**	**NJ Non-Residential Direct Contact SRS**	**NJ Impact to GW Soil Screening Level**	**Weston 1995 Background (Main Post)**	FTMM02-M2-67E	FTMM02-M2-B-1		
Sample ID					FTMM02-SS-M2-67E-8-8-Dup	FTMM02-SS-M2-B-1-0-0.5	FTMM02-SS-M2-B-1-1-1.5	FTMM02-SS-M2-B-1-2-2.5
Sample Date					12/7/1999	2/17/1999	2/17/1999	2/17/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	**0.063**	**0.053**	ND
Aroclor-1242	0.2	1	NLE	-	NA	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	NA	**0.054**	**0.236**	**0.041**
PCB (total)	0.2	1	0.2	-	NA	**0.117**	**0.289**	**0.041**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-1			
Sample ID					FTMM02-SS-M2-B-1-3-3.5	FTMM02-SS-M2-B-1-4-4.5	FTMM02-SS-M2-B-1-5-5.5	FTMM02-SS-M2-B-1-6-6.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-1			
Sample ID					FTMM02-SS-M2-B-1-3-3.5	FTMM02-SS-M2-B-1-4-4.5	FTMM02-SS-M2-B-1-5-5.5	FTMM02-SS-M2-B-1-6-6.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	**8.669**	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	**1.137**	**3.206**	ND
PCB (total)	0.2	1	0.2	-	ND	**9.806**	**3.206**	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-1			FTMM02-M2-B-10
Sample ID					FTMM02-SS-M2-B-1-7-7.5	FTMM02-SS-M2-B-1-8-8.5	FTMM02-SS-M2-B-1-9-9.5	FTMM02-SS-M2-B-10-0-0.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	2/22/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-1			FTMM02-M2-B-10
Sample ID					FTMM02-SS-M2-B-1-7-7.5	FTMM02-SS-M2-B-1-8-8.5	FTMM02-SS-M2-B-1-9-9.5	FTMM02-SS-M2-B-10-0-0.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	2/22/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	**0.054**
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**0.054**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10			
Sample ID					FTMM02-SS-M2-B-10-1-1.5	FTMM02-SS-M2-B-10-2-2.5	FTMM02-SS-M2-B-10-3-3.5	FTMM02-SS-M2-B-10-4-4.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10			
Sample ID					FTMM02-SS-M2-B-10-1-1.5	FTMM02-SS-M2-B-10-2-2.5	FTMM02-SS-M2-B-10-3-3.5	FTMM02-SS-M2-B-10-4-4.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	**0.379**	**1.042**	**0.704**	**0.159**
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**0.037**	**0.059**	**0.065**	**0.086**
PCB (total)	0.2	1	0.2	-	**0.416**	**1.101**	**0.769**	**0.245**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10			
Sample ID					FTMM02-SS-M2-B-10-5-5.5	FTMM02-SS-M2-B-10-6-6.5	FTMM02-SS-M2-B-10-7-7.5	FTMM02-SS-M2-B-10-8-8.5
Sample Date					2/22/1999	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10			
Sample ID					FTMM02-SS-M2-B-10-5-5.5	FTMM02-SS-M2-B-10-6-6.5	FTMM02-SS-M2-B-10-7-7.5	FTMM02-SS-M2-B-10-8-8.5
Sample Date					2/22/1999	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	**6.392**	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**8.381**	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**14.773**	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10	FTMM02-M2-B-100	FTMM02-M2-B-101	FTMM02-M2-B-102
Sample ID					FTMM02-SS-M2-B-10-9-9.5	FTMM02-SS-M2-B-100-5-5	FTMM02-SS-M2-B-101-9-9	FTMM02-SS-M2-B-102-7.5-7.5
Sample Date					1/24/2000	4/26/1999	4/26/1999	4/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	ND	ND	ND
Benzene	2,000	5,000	5	-	NA	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	NA	ND	ND	ND
Chloroform	600	2,000	400	-	NA	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	NA	ND	ND	**1,500**
Toluene	6,300,000	91,000,000	7,000	-	NA	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10	FTMM02-M2-B-100	FTMM02-M2-B-101	FTMM02-M2-B-102
Sample ID					FTMM02-SS-M2-B-10-9-9.5	FTMM02-SS-M2-B-100-5-5	FTMM02-SS-M2-B-101-9-9	FTMM02-SS-M2-B-102-7.5-7.5
Sample Date					1/24/2000	4/26/1999	4/26/1999	4/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	ND	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	ND	NA	NA	NA
PCB (total)	0.2	1	0.2	-	ND	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-103	FTMM02-M2-B-104	FTMM02-M2-B-105	FTMM02-M2-B-106
Sample ID					FTMM02-SS-M2-B-103-7.5-7.5	FTMM02-SS-M2-B-104-8-8	FTMM02-SS-M2-B-105-5-5	FTMM02-SS-M2-B-106-6-6
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	**1,300**	**1,300**	ND	**1,400**
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**NJ Residential DCSRS**	**NJ Non-Residential Direct Contact SRS**	**NJ Impact to GW Soil Screening Level**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-103	FTMM02-M2-B-104	FTMM02-M2-B-105	FTMM02-M2-B-106
Sample ID					FTMM02-SS-M2-B-103-7.5-7.5	FTMM02-SS-M2-B-104-8-8	FTMM02-SS-M2-B-105-5-5	FTMM02-SS-M2-B-106-6-6
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-107		FTMM02-M2-B-108	FTMM02-M2-B-109
Sample ID					FTMM02-SS-M2-B-107-7.5-7.5-Dup	FTMM02-SS-M2-B-107-9-9	FTMM02-SS-M2-B-108-5-5	FTMM02-SS-M2-B-109-5-5
Sample Date					4/27/1999	4/27/1999	5/4/1999	5/4/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	**340**
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	**1,100**	**1,300**	**1,700**	**1,100**
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-107		FTMM02-M2-B-108	FTMM02-M2-B-109
Sample ID					FTMM02-SS-M2-B-107-7.5-7.5-Dup	FTMM02-SS-M2-B-107-9-9	FTMM02-SS-M2-B-108-5-5	FTMM02-SS-M2-B-109-5-5
Sample Date					4/27/1999	4/27/1999	5/4/1999	5/4/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10A			
Sample ID					FTMM02-SS-M2-B-10A-0-0.5	FTMM02-SS-M2-B-10A-1-1.5	FTMM02-SS-M2-B-10A-2-2.5	FTMM02-SS-M2-B-10A-3-3.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10A			
Sample ID					FTMM02-SS-M2-B-10A-0-0.5	FTMM02-SS-M2-B-10A-1-1.5	FTMM02-SS-M2-B-10A-2-2.5	FTMM02-SS-M2-B-10A-3-3.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	**0.497**	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**0.497**	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10A			
Sample ID					FTMM02-SS-M2-B-10A-4-4.5	FTMM02-SS-M2-B-10A-5-5.5	FTMM02-SS-M2-B-10A-6-6.5	FTMM02-SS-M2-B-10A-7-7.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10A			
Sample ID					FTMM02-SS-M2-B-10A-4-4.5	FTMM02-SS-M2-B-10A-5-5.5	FTMM02-SS-M2-B-10A-6-6.5	FTMM02-SS-M2-B-10A-7-7.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10A	FTMM02-M2-B-10B		
Sample ID					FTMM02-SS-M2-B-10A-8-8.5	FTMM02-SS-M2-B-10B-0-0.5	FTMM02-SS-M2-B-10B-1-1.5	FTMM02-SS-M2-B-10B-2-2.5
Sample Date					10/27/1999	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10A	FTMM02-M2-B-10B		
Sample ID					FTMM02-SS-M2-B-10A-8-8.5	FTMM02-SS-M2-B-10B-0-0.5	FTMM02-SS-M2-B-10B-1-1.5	FTMM02-SS-M2-B-10B-2-2.5
Sample Date					10/27/1999	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	**0.314**	ND	**1.192**
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	**0.314**	ND	**1.192**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10B			
Sample ID					FTMM02-SS-M2-B-10B-3-3.5	FTMM02-SS-M2-B-10B-4-4.5	FTMM02-SS-M2-B-10B-5-5.5	FTMM02-SS-M2-B-10B-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10B			
Sample ID					FTMM02-SS-M2-B-10B-3-3.5	FTMM02-SS-M2-B-10B-4-4.5	FTMM02-SS-M2-B-10B-5-5.5	FTMM02-SS-M2-B-10B-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10B			FTMM02-M2-B-10C
Sample ID					FTMM02-SS-M2-B-10B-7-7.5	FTMM02-SS-M2-B-10B-8-8.5	FTMM02-SS-M2-B-10B-9-9.5	FTMM02-SS-M2-B-10C-0-0.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10B			FTMM02-M2-B-10C
Sample ID					FTMM02-SS-M2-B-10B-7-7.5	FTMM02-SS-M2-B-10B-8-8.5	FTMM02-SS-M2-B-10B-9-9.5	FTMM02-SS-M2-B-10C-0-0.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	**0.983**
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**0.983**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10C			
Sample ID					FTMM02-SS-M2-B-10C-1-1.5	FTMM02-SS-M2-B-10C-2-2.5	FTMM02-SS-M2-B-10C-3-3.5	FTMM02-SS-M2-B-10C-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10C			
Sample ID					FTMM02-SS-M2-B-10C-1-1.5	FTMM02-SS-M2-B-10C-2-2.5	FTMM02-SS-M2-B-10C-3-3.5	FTMM02-SS-M2-B-10C-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10C			
Sample ID					FTMM02-SS-M2-B-10C-5-5.5	FTMM02-SS-M2-B-10C-6-6.5	FTMM02-SS-M2-B-10C-7-7.5	FTMM02-SS-M2-B-10C-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10C			
Sample ID					FTMM02-SS-M2-B-10C-5-5.5	FTMM02-SS-M2-B-10C-6-6.5	FTMM02-SS-M2-B-10C-7-7.5	FTMM02-SS-M2-B-10C-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	**33.606**	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	**33.606**	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**NJ Residential DCSRS**	**NJ Non-Residential Direct Contact SRS**	**NJ Impact to GW Soil Screening Level**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10C	FTMM02-M2-B-10D		
Sample ID					FTMM02-SS-M2-B-10C-9-9.5	FTMM02-SS-M2-B-10D-0-0.5	FTMM02-SS-M2-B-10D-1-1.5	FTMM02-SS-M2-B-10D-2-2.5
Sample Date					2/7/2000	2/29/2000	2/29/2000	2/29/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10C	FTMM02-M2-B-10D		
Sample ID					FTMM02-SS-M2-B-10C-9-9.5	FTMM02-SS-M2-B-10D-0-0.5	FTMM02-SS-M2-B-10D-1-1.5	FTMM02-SS-M2-B-10D-2-2.5
Sample Date					2/7/2000	2/29/2000	2/29/2000	2/29/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10D			
Sample ID					FTMM02-SS-M2-B-10D-3-3.5	FTMM02-SS-M2-B-10D-4-4.5	FTMM02-SS-M2-B-10D-5-5.5	FTMM02-SS-M2-B-10D-6-6.5
Sample Date					2/29/2000	2/29/2000	2/29/2000	2/29/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10D			
Sample ID					FTMM02-SS-M2-B-10D-3-3.5	FTMM02-SS-M2-B-10D-4-4.5	FTMM02-SS-M2-B-10D-5-5.5	FTMM02-SS-M2-B-10D-6-6.5
Sample Date					2/29/2000	2/29/2000	2/29/2000	2/29/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10D	
Sample ID					FTMM02-SS-M2-B-10D-7-7.5	FTMM02-SS-M2-B-10D-8-8.5
Sample Date					2/29/2000	2/29/2000
Volatile Organic Compounds (µg/kg)						
Acetone	70,000,000	NLE	19,000	-	NA	NA
Benzene	2,000	5,000	5	-	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA
Chloroform	600	2,000	400	-	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA
TIC VOCs (µg/kg)						
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA
Semivolatile Organic Compounds (µg/kg)						
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA
TIC SVOCs (µg/kg)						
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10D	
Sample ID					FTMM02-SS-M2-B-10D-7-7.5	FTMM02-SS-M2-B-10D-8-8.5
Sample Date					2/29/2000	2/29/2000
Pesticides & PCBs (mg/kg)						
4,4'-DDD	3	13	4	-	NA	NA
4,4'-DDE	2	9	18	-	NA	NA
4,4'-DDT	2	8	11	-	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA
Endrin	23	340	1	-	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA
Pesticides & PCBs (mg/kg)						
Aroclor-1016	0.2	1	NLE	-	ND	ND
Aroclor-1242	0.2	1	NLE	-	**2.145**	**14.152**
Aroclor-1248	0.2	1	NLE	-	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND
PCB (total)	0.2	1	0.2	-	**2.145**	**14.152**
Inorganics (mg/kg)						
Aluminum	78,000	NLE	6,000	15,200	NA	NA
Antimony	31	450	6	ND	NA	NA
Arsenic	19	19	19	22.9	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA
Beryllium	16	140	0.7	2	NA	NA
Cadmium	78	78	2	ND	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA
Lead	400	800	90	19.5	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA
Mercury	23	65	0.1	ND	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA
Selenium	390	5,700	11	1.9	NA	NA
Silver	390	5,700	1	1.1	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA
Thallium	5	79	3	ND	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10D			
Sample ID					FTMM02-SS-M2-B-10D-10-10.5	FTMM02-SS-M2-B-10D-11-11.5	FTMM02-SS-M2-B-10D-12-12.5	FTMM02-SS-M2-B-10D-9-9.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10D			
Sample ID					FTMM02-SS-M2-B-10D-10-10.5	FTMM02-SS-M2-B-10D-11-11.5	FTMM02-SS-M2-B-10D-12-12.5	FTMM02-SS-M2-B-10D-9-9.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-0-0.5	FTMM02-SS-M2-B-10E-10.2-10.7	FTMM02-SS-M2-B-10E-11.2-11.7	FTMM02-SS-M2-B-10E-1-1.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-0-0.5	FTMM02-SS-M2-B-10E-10.2-10.7	FTMM02-SS-M2-B-10E-11.2-11.7	FTMM02-SS-M2-B-10E-1-1.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	**1.682**	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**1.682**	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-12-12.5	FTMM02-SS-M2-B-10E-2-2.5	FTMM02-SS-M2-B-10E-3-3.5	FTMM02-SS-M2-B-10E-4-4.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-12-12.5	FTMM02-SS-M2-B-10E-2-2.5	FTMM02-SS-M2-B-10E-3-3.5	FTMM02-SS-M2-B-10E-4-4.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-5-5.5	FTMM02-SS-M2-B-10E-6-6.5	FTMM02-SS-M2-B-10E-7-7.5	FTMM02-SS-M2-B-10E-8-8.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-5-5.5	FTMM02-SS-M2-B-10E-6-6.5	FTMM02-SS-M2-B-10E-7-7.5	FTMM02-SS-M2-B-10E-8-8.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	**0.432**	**1.484**
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**0.432**	**1.484**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10E	FTMM02-M2-B-10F		
Sample ID					FTMM02-SS-M2-B-10E-9-9.5	FTMM02-SS-M2-B-10F-0-0.5	FTMM02-SS-M2-B-10F-1-1.5	FTMM02-SS-M2-B-10F-2-2.5
Sample Date					3/8/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10E	FTMM02-M2-B-10F		
Sample ID					FTMM02-SS-M2-B-10E-9-9.5	FTMM02-SS-M2-B-10F-0-0.5	FTMM02-SS-M2-B-10F-1-1.5	FTMM02-SS-M2-B-10F-2-2.5
Sample Date					3/8/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10F			
Sample ID					FTMM02-SS-M2-B-10F-3-3.5	FTMM02-SS-M2-B-10F-4-4.5	FTMM02-SS-M2-B-10F-5-5.5	FTMM02-SS-M2-B-10F-6-6.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10F			
Sample ID					FTMM02-SS-M2-B-10F-3-3.5	FTMM02-SS-M2-B-10F-4-4.5	FTMM02-SS-M2-B-10F-5-5.5	FTMM02-SS-M2-B-10F-6-6.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10F			FTMM02-M2-B-11	
Sample ID					FTMM02-SS-M2-B-10F-7-7.5	FTMM02-SS-M2-B-10F-8-8.5	FTMM02-SS-M2-B-10F-9-9.5	FTMM02-SS-M2-B-11-0-0.5	FTMM02-SS-M2-B-11-1-1.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	2/22/1999	2/22/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-10F			FTMM02-M2-B-11	
Sample ID					FTMM02-SS-M2-B-10F-7-7.5	FTMM02-SS-M2-B-10F-8-8.5	FTMM02-SS-M2-B-10F-9-9.5	FTMM02-SS-M2-B-11-0-0.5	FTMM02-SS-M2-B-11-1-1.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	2/22/1999	2/22/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	**1.23**	**0.157**
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	**0.126**	**0.06**
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**1.356**	**0.217**
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11				FTMM02-M2-B-110
Sample ID					FTMM02-SS-M2-B-11-2-2.5	FTMM02-SS-M2-B-11-3-3.5	FTMM02-SS-M2-B-11-4-4.5	FTMM02-SS-M2-B-11-5-5.5	FTMM02-SS-M2-B-110-5-5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	5/4/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	ND
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	ND
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	ND
Chloroform	600	2,000	400	-	NA	NA	NA	NA	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	ND
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	ND
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11				FTMM02-M2-B-110
Sample ID					FTMM02-SS-M2-B-11-2-2.5	FTMM02-SS-M2-B-11-3-3.5	FTMM02-SS-M2-B-11-4-4.5	FTMM02-SS-M2-B-11-5-5.5	FTMM02-SS-M2-B-110-5-5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	5/4/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	NA
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	NA
Aroclor-1260	0.2	1	NLE	-	ND	ND	**0.234**	**0.033**	NA
PCB (total)	0.2	1	0.2	-	ND	ND	**0.234**	**0.033**	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-111	FTMM02-M2-B-112	FTMM02-M2-B-113	FTMM02-M2-B-113A
Sample ID					FTMM02-SS-M2-B-111-4-4	FTMM02-SS-M2-B-112-4-4	FTMM02-SS-M2-B-113-5-5	FTMM02-SS-M2-B-113A-7.5-7.5
Sample Date					5/4/1999	5/4/1999	5/6/1999	11/8/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-111	FTMM02-M2-B-112	FTMM02-M2-B-113	FTMM02-M2-B-113A
Sample ID					FTMM02-SS-M2-B-111-4-4	FTMM02-SS-M2-B-112-4-4	FTMM02-SS-M2-B-113-5-5	FTMM02-SS-M2-B-113A-7.5-7.5
Sample Date					5/4/1999	5/4/1999	5/6/1999	11/8/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-113D	FTMM02-M2-B-113E	FTMM02-M2-B-113F	
Sample ID					FTMM02-SS-M2-B-113D-7.5-7.5	FTMM02-SS-M2-B-113E-7.5-7.5	FTMM02-SS-M2-B-113F-2.7-3.5	FTMM02-SS-M2-B-113F-5-5.5
Sample Date					12/1/1999	12/2/1999	1/3/2000	1/3/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	**1,100**	ND	ND	ND
Chloroform	600	2,000	400	-	ND	**390**	**550**	**760**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	**6,700**	**7,300**
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-113D	FTMM02-M2-B-113E	FTMM02-M2-B-113F	
Sample ID					FTMM02-SS-M2-B-113D-7.5-7.5	FTMM02-SS-M2-B-113E-7.5-7.5	FTMM02-SS-M2-B-113F-2.7-3.5	FTMM02-SS-M2-B-113F-5-5.5
Sample Date					12/1/1999	12/2/1999	1/3/2000	1/3/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-113G			FTMM02-M2-B-113H
Sample ID					FTMM02-SS-M2-B-113G-2.5-3	FTMM02-SS-M2-B-113G-5.5-6	FTMM02-SS-M2-B-113G-5-5.5	FTMM02-SS-M2-B-113H-4.5-5
Sample Date					1/4/2000	1/4/2000	1/4/2000	1/5/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	**2,300**	**5,600**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	**840**
Chloroform	600	2,000	400	-	**1,400**	**1,600**	**1,500**	**930**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**1,700**	ND	**1,600**	**2,700**
Methylene chloride	34,000	97,000	10	-	**640**	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-113G			FTMM02-M2-B-113H
Sample ID					FTMM02-SS-M2-B-113G-2.5-3	FTMM02-SS-M2-B-113G-5.5-6	FTMM02-SS-M2-B-113G-5-5.5	FTMM02-SS-M2-B-113H-4.5-5
Sample Date					1/4/2000	1/4/2000	1/4/2000	1/5/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-113H	FTMM02-M2-B-113I	FTMM02-M2-B-114	FTMM02-M2-B-114A
Sample ID					FTMM02-SS-M2-B-113H-4-4.5	FTMM02-SS-M2-B-113I-4.5-5	FTMM02-SS-M2-B-114-5-5	FTMM02-SS-M2-B-114A-7.5-7.5
Sample Date					1/5/2000	1/6/2000	5/6/1999	11/8/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	**4,300**	ND	**4,600**	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	**770**
Chloroform	600	2,000	400	-	**540**	**810**	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**2,000**	**1,700**	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-113H	FTMM02-M2-B-113I	FTMM02-M2-B-114	FTMM02-M2-B-114A
Sample ID					FTMM02-SS-M2-B-113H-4-4.5	FTMM02-SS-M2-B-113I-4.5-5	FTMM02-SS-M2-B-114-5-5	FTMM02-SS-M2-B-114A-7.5-7.5
Sample Date					1/5/2000	1/6/2000	5/6/1999	11/8/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-114B	FTMM02-M2-B-114C	FTMM02-M2-B-114D	FTMM02-M2-B-114E
Sample ID					FTMM02-SS-M2-B-114B-7.5-7.5	FTMM02-SS-M2-B-114C-7.5-7.5	FTMM02-SS-M2-B-114D-7.5-7.5	FTMM02-SS-M2-B-114E-7.5-7.5
Sample Date					11/10/1999	11/30/1999	12/1/1999	12/2/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	**490**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	**1,100**
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	**1,200**	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	**540**
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	**4,000**
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-114B	FTMM02-M2-B-114C	FTMM02-M2-B-114D	FTMM02-M2-B-114E
Sample ID					FTMM02-SS-M2-B-114B-7.5-7.5	FTMM02-SS-M2-B-114C-7.5-7.5	FTMM02-SS-M2-B-114D-7.5-7.5	FTMM02-SS-M2-B-114E-7.5-7.5
Sample Date					11/10/1999	11/30/1999	12/1/1999	12/2/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-114F		FTMM02-M2-B-114G	FTMM02-M2-B-114H
Sample ID					FTMM02-SS-M2-B-114F-2.5-3	FTMM02-SS-M2-B-114F-5-5.5	FTMM02-SS-M2-B-114G-5-5.5	FTMM02-SS-M2-B-114H-2-2.5
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/5/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	**3,500**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**860**	**830**	**2,000**	**560**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**7,600**	**7,500**	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-114F		FTMM02-M2-B-114G	FTMM02-M2-B-114H
Sample ID					FTMM02-SS-M2-B-114F-2.5-3	FTMM02-SS-M2-B-114F-5-5.5	FTMM02-SS-M2-B-114G-5-5.5	FTMM02-SS-M2-B-114H-2-2.5
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/5/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-114H		FTMM02-M2-B-114I	FTMM02-M2-B-115
Sample ID					FTMM02-SS-M2-B-114H-4.5-5	FTMM02-SS-M2-B-114H-5-5.5	FTMM02-SS-M2-B-114I-4.5-5	FTMM02-SS-M2-B-115-5-5
Sample Date					1/5/2000	1/5/2000	1/6/2000	5/6/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	**3,600**	ND	ND	**5,000**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**590**	**330**	**630**	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**1,700**	**1,500**	**1,500**	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-114H		FTMM02-M2-B-114I	FTMM02-M2-B-115
Sample ID					FTMM02-SS-M2-B-114H-4.5-5	FTMM02-SS-M2-B-114H-5-5.5	FTMM02-SS-M2-B-114I-4.5-5	FTMM02-SS-M2-B-115-5-5
Sample Date					1/5/2000	1/5/2000	1/6/2000	5/6/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-115A	FTMM02-M2-B-115B	FTMM02-M2-B-115C	FTMM02-M2-B-115D
Sample ID					FTMM02-SS-M2-B-115A-7.5-7.5	FTMM02-SS-M2-B-115B-7.5-7.5	FTMM02-SS-M2-B-115C-7.5-7.5	FTMM02-SS-M2-B-115D-7.5-7.5
Sample Date					11/8/1999	11/10/1999	11/30/1999	12/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-115A	FTMM02-M2-B-115B	FTMM02-M2-B-115C	FTMM02-M2-B-115D
Sample ID					FTMM02-SS-M2-B-115A-7.5-7.5	FTMM02-SS-M2-B-115B-7.5-7.5	FTMM02-SS-M2-B-115C-7.5-7.5	FTMM02-SS-M2-B-115D-7.5-7.5
Sample Date					11/8/1999	11/10/1999	11/30/1999	12/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-115E	FTMM02-M2-B-115F		
Sample ID					FTMM02-SS-M2-B-115E-7.5-7.5	FTMM02-SS-M2-B-115F-3-3.5	FTMM02-SS-M2-B-115F-4.5-5	FTMM02-SS-M2-B-115F-5-5.5
Sample Date					12/2/1999	1/3/2000	1/3/2000	1/3/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	**770**	**840**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	**6,200**	**7,200**
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-115E	FTMM02-M2-B-115F		
Sample ID					FTMM02-SS-M2-B-115E-7.5-7.5	FTMM02-SS-M2-B-115F-3-3.5	FTMM02-SS-M2-B-115F-4.5-5	FTMM02-SS-M2-B-115F-5-5.5
Sample Date					12/2/1999	1/3/2000	1/3/2000	1/3/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-115G		FTMM02-M2-B-115H	
Sample ID					FTMM02-SS-M2-B-115G-1.5-2	FTMM02-SS-M2-B-115G-6-6.5	FTMM02-SS-M2-B-115H-3-3.5	FTMM02-SS-M2-B-115H-5-5.5
Sample Date					1/4/2000	1/4/2000	1/5/2000	1/5/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	**2,400**	**2,800**	**4,700**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**1,500**	**1,700**	**400**	**520**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**1,400**	**1,600**	**1,400**	**2,200**
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-115G		FTMM02-M2-B-115H	
Sample ID					FTMM02-SS-M2-B-115G-1.5-2	FTMM02-SS-M2-B-115G-6-6.5	FTMM02-SS-M2-B-115H-3-3.5	FTMM02-SS-M2-B-115H-5-5.5
Sample Date					1/4/2000	1/4/2000	1/5/2000	1/5/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-115I	FTMM02-M2-B-116	FTMM02-M2-B-116A	FTMM02-M2-B-116B
Sample ID					FTMM02-SS-M2-B-115I-4.5-5	FTMM02-SS-M2-B-116-5-5	FTMM02-SS-M2-B-116A-7.5-7.5	FTMM02-SS-M2-B-116B-7.5-7.5
Sample Date					1/6/2000	5/6/1999	11/8/1999	11/10/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	**5,100**	**5,100**	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**680**	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-115I	FTMM02-M2-B-116	FTMM02-M2-B-116A	FTMM02-M2-B-116B
Sample ID					FTMM02-SS-M2-B-115I-4.5-5	FTMM02-SS-M2-B-116-5-5	FTMM02-SS-M2-B-116A-7.5-7.5	FTMM02-SS-M2-B-116B-7.5-7.5
Sample Date					1/6/2000	5/6/1999	11/8/1999	11/10/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-116C	FTMM02-M2-B-116D	FTMM02-M2-B-116E	
Sample ID					FTMM02-SS-M2-B-116C-7.5-7.5	FTMM02-SS-M2-B-116D-7.5-7.5	FTMM02-SS-M2-B-116E-7.5-7.5	FTMM02-SS-M2-B-116E-7.5-7.5-Dup
Sample Date					11/30/1999	12/1/1999	12/2/1999	12/2/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-116C	FTMM02-M2-B-116D	FTMM02-M2-B-116E	
Sample ID					FTMM02-SS-M2-B-116C-7.5-7.5	FTMM02-SS-M2-B-116D-7.5-7.5	FTMM02-SS-M2-B-116E-7.5-7.5	FTMM02-SS-M2-B-116E-7.5-7.5-Dup
Sample Date					11/30/1999	12/1/1999	12/2/1999	12/2/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-116F		FTMM02-M2-B-116G	FTMM02-M2-B-116H
Sample ID					FTMM02-SS-M2-B-116F-1-1.5	FTMM02-SS-M2-B-116F-5-5.5	FTMM02-SS-M2-B-116G-6-6.5	FTMM02-SS-M2-B-116H-3-3.5
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/5/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	**2,800**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**780**	**520**	**1,500**	**440**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**7,000**	**5,000**	**1,500**	**1,400**
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-116F		FTMM02-M2-B-116G	FTMM02-M2-B-116H
Sample ID					FTMM02-SS-M2-B-116F-1-1.5	FTMM02-SS-M2-B-116F-5-5.5	FTMM02-SS-M2-B-116G-6-6.5	FTMM02-SS-M2-B-116H-3-3.5
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/5/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-116H		FTMM02-M2-B-116I	FTMM02-M2-B-117
Sample ID					FTMM02-SS-M2-B-116H-4.5-5	FTMM02-SS-M2-B-116H-6-6.5	FTMM02-SS-M2-B-116I-4.5-5	FTMM02-SS-M2-B-117-4.5-4.5
Sample Date					1/5/2000	1/5/2000	1/6/2000	5/6/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	**3,500**	**3,500**	**9,500**	**5,500**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**520**	**500**	**980**	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**1,700**	**1,700**	**4,600**	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-116H		FTMM02-M2-B-116I	FTMM02-M2-B-117
Sample ID					FTMM02-SS-M2-B-116H-4.5-5	FTMM02-SS-M2-B-116H-6-6.5	FTMM02-SS-M2-B-116I-4.5-5	FTMM02-SS-M2-B-117-4.5-4.5
Sample Date					1/5/2000	1/5/2000	1/6/2000	5/6/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-117A	FTMM02-M2-B-117B	FTMM02-M2-B-117C	FTMM02-M2-B-117D
Sample ID					FTMM02-SS-M2-B-117A-7.5-7.5	FTMM02-SS-M2-B-117B-7.5-7.5	FTMM02-SS-M2-B-117C-7.5-7.5	FTMM02-SS-M2-B-117D-7.5-7.5
Sample Date					11/10/1999	11/10/1999	11/30/1999	12/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	**350**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-117A	FTMM02-M2-B-117B	FTMM02-M2-B-117C	FTMM02-M2-B-117D
Sample ID					FTMM02-SS-M2-B-117A-7.5-7.5	FTMM02-SS-M2-B-117B-7.5-7.5	FTMM02-SS-M2-B-117C-7.5-7.5	FTMM02-SS-M2-B-117D-7.5-7.5
Sample Date					11/10/1999	11/10/1999	11/30/1999	12/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-117E	FTMM02-M2-B-117F		FTMM02-M2-B-117G
Sample ID					FTMM02-SS-M2-B-117E-7.5-7.5	FTMM02-SS-M2-B-117F-2.5-3	FTMM02-SS-M2-B-117F-6-6.5	FTMM02-SS-M2-B-117G-1.5-2
Sample Date					12/3/1999	1/3/2000	1/3/2000	1/4/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**310**	**590**	**680**	**1,300**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	**4,900**	**4,500**	**1,500**
Methylene chloride	34,000	97,000	10	-	**5,000**	**670**	**370 J**	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-117E	FTMM02-M2-B-117F		FTMM02-M2-B-117G
Sample ID					FTMM02-SS-M2-B-117E-7.5-7.5	FTMM02-SS-M2-B-117F-2.5-3	FTMM02-SS-M2-B-117F-6-6.5	FTMM02-SS-M2-B-117G-1.5-2
Sample Date					12/3/1999	1/3/2000	1/3/2000	1/4/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-117H			
Sample ID					FTMM02-SS-M2-B-117G-6-6.5	FTMM02-SS-M2-B-117H-2-2.5	FTMM02-SS-M2-B-117H-4.5-5	FTMM02-SS-M2-B-117H-5-5.5
Sample Date					1/4/2000	1/5/2000	1/5/2000	1/5/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	**2,600**	**3,300**	**10,000**	**3,300**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	**990**	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**1,600**	**440**	**1,300**	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**1,600**	**1,500**	**4,500**	**1,800**
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-117H			
Sample ID					FTMM02-SS-M2-B-117G-6-6.5	FTMM02-SS-M2-B-117H-2-2.5	FTMM02-SS-M2-B-117H-4.5-5	FTMM02-SS-M2-B-117H-5-5.5
Sample Date					1/4/2000	1/5/2000	1/5/2000	1/5/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-117I	FTMM02-M2-B-118		FTMM02-M2-B-118B
Sample ID					FTMM02-SS-M2-B-117I-4.5-5	FTMM02-SS-M2-B-118-4.5-4.5	FTMM02-SS-M2-B-118-5-5-Dup	FTMM02-SS-M2-B-118B-7.5-7.5
Sample Date					1/6/2000	5/6/1999	5/6/1999	11/10/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	**5,900**	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**620**	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**1,300**	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-117I	FTMM02-M2-B-118		FTMM02-M2-B-118B
Sample ID					FTMM02-SS-M2-B-117I-4.5-5	FTMM02-SS-M2-B-118-4.5-4.5	FTMM02-SS-M2-B-118-5-5-Dup	FTMM02-SS-M2-B-118B-7.5-7.5
Sample Date					1/6/2000	5/6/1999	5/6/1999	11/10/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-118B	FTMM02-M2-B-118C	FTMM02-M2-B-118D	FTMM02-M2-B-118E
Sample ID					FTMM02-SS-M2-B-118B-7.5-7.5-Dup	FTMM02-SS-M2-B-118C-7.5-7.5	FTMM02-SS-M2-B-118D-7.5-7.5	FTMM02-SS-M2-B-118E-7.5-7.5
Sample Date					11/10/1999	11/30/1999	12/2/1999	12/3/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	**290**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	**1,200**
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-118B	FTMM02-M2-B-118C	FTMM02-M2-B-118D	FTMM02-M2-B-118E
Sample ID					FTMM02-SS-M2-B-118B-7.5-7.5-Dup	FTMM02-SS-M2-B-118C-7.5-7.5	FTMM02-SS-M2-B-118D-7.5-7.5	FTMM02-SS-M2-B-118E-7.5-7.5
Sample Date					11/10/1999	11/30/1999	12/2/1999	12/3/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-118F		FTMM02-M2-B-118G	
Sample ID					FTMM02-SS-M2-B-118F-3-3.5	FTMM02-SS-M2-B-118F-5-5.5	FTMM02-SS-M2-B-118G-2.5-3	FTMM02-SS-M2-B-118G-3.5-4
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/4/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	**2,500**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**670**	**740**	**1,900**	**1,600**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**4,700**	**4,500**	ND	**1,500**
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-118F		FTMM02-M2-B-118G	
Sample ID					FTMM02-SS-M2-B-118F-3-3.5	FTMM02-SS-M2-B-118F-5-5.5	FTMM02-SS-M2-B-118G-2.5-3	FTMM02-SS-M2-B-118G-3.5-4
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/4/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-118H		FTMM02-M2-B-118I	FTMM02-M2-B-119C
Sample ID					FTMM02-SS-M2-B-118H-1.5-2	FTMM02-SS-M2-B-118H-3-3.5	FTMM02-SS-M2-B-118I-4.5-5	FTMM02-SS-M2-B-119C-7.5-7.5
Sample Date					1/5/2000	1/5/2000	1/6/2000	11/30/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	**4,200**	**5,300**	**2,700**	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**420**	**520**	**550**	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**1,800**	**2,400**	**1,400**	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-118H		FTMM02-M2-B-118I	FTMM02-M2-B-119C
Sample ID					FTMM02-SS-M2-B-118H-1.5-2	FTMM02-SS-M2-B-118H-3-3.5	FTMM02-SS-M2-B-118I-4.5-5	FTMM02-SS-M2-B-119C-7.5-7.5
Sample Date					1/5/2000	1/5/2000	1/6/2000	11/30/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11A
Sample ID					FTMM02-SS-M2-B-11A-0-0.5
Sample Date					10/27/1999
Volatile Organic Compounds (µg/kg)					
Acetone	70,000,000	NLE	19,000	-	NA
Benzene	2,000	5,000	5	-	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA
Chlorobenzene	510,000	7,400,000	600	-	NA
Chloroform	600	2,000	400	-	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA
Methylene chloride	34,000	97,000	10	-	NA
Toluene	6,300,000	91,000,000	7,000	-	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA
TIC VOCs (µg/kg)					
Total TIC, Volatile	NLE	NLE	NLE	-	NA
Semivolatile Organic Compounds (µg/kg)					
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA
Azobenzene	NLE	NLE	NLE	-	NA
Benzo(a)anthracene	600	2,000	800	-	NA
Benzo(a)pyrene	200	200	200	-	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA
Chrysene	62,000	230,000	80,000	-	NA
Dibenz(a,h)anthracene	200	200	800	-	NA
Dibenzofuran	NLE	NLE	NLE	-	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA
Naphthalene	6,000	17,000	25,000	-	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA
TIC SVOCs (µg/kg)					
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11A
Sample ID					FTMM02-SS-M2-B-11A-0-0.5
Sample Date					10/27/1999
Pesticides & PCBs (mg/kg)					
4,4'-DDD	3	13	4	-	NA
4,4'-DDE	2	9	18	-	NA
4,4'-DDT	2	8	11	-	NA
Alpha-Chlordane	NLE	1	NLE	-	NA
Dieldrin	0.04	0.2	0.003	-	NA
Endrin	23	340	1	-	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA
Gamma-Chlordane	0.2	1	NLE	-	NA
Pesticides & PCBs (mg/kg)					
Aroclor-1016	0.2	1	NLE	-	ND
Aroclor-1242	0.2	1	NLE	-	ND
Aroclor-1248	0.2	1	NLE	-	NA
Aroclor-1254	0.2	1	NLE	-	**0.513**
Aroclor-1260	0.2	1	NLE	-	ND
PCB (total)	0.2	1	0.2	-	**0.513**
Inorganics (mg/kg)					
Aluminum	78,000	NLE	6,000	15,200	NA
Antimony	31	450	6	ND	NA
Arsenic	19	19	19	22.9	NA
Barium	16,000	59,000	2,100	32.3	NA
Beryllium	16	140	0.7	2	NA
Cadmium	78	78	2	ND	NA
Calcium	NLE	NLE	NLE	921	NA
Chromium	NLE	NLE	NLE	269	NA
Cobalt	1,600	590	90	2.5	NA
Copper	3,100	45,000	11,000	8	NA
Iron	NLE	NLE	NLE	55,800	NA
Lead	400	800	90	19.5	NA
Magnesium	NLE	NLE	NLE	7,230	NA
Manganese	11,000	5,900	65	90.7	NA
Mercury	23	65	0.1	ND	NA
Nickel	1,600	23,000	48	8.4	NA
Potassium	NLE	NLE	NLE	15,400	NA
Selenium	390	5,700	11	1.9	NA
Silver	390	5,700	1	1.1	NA
Sodium	NLE	NLE	NLE	51.6	NA
Thallium	5	79	3	ND	NA
Vanadium	78	1,100	NLE	94.1	NA
Zinc	23,000	110,000	930	81.4	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11A			
Sample ID					FTMM02-SS-M2-B-11A-1-1.5	FTMM02-SS-M2-B-11A-2-2.5	FTMM02-SS-M2-B-11A-3-3.5	FTMM02-SS-M2-B-11A-4-4.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11A			
Sample ID					FTMM02-SS-M2-B-11A-1-1.5	FTMM02-SS-M2-B-11A-2-2.5	FTMM02-SS-M2-B-11A-3-3.5	FTMM02-SS-M2-B-11A-4-4.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	**0.745**	ND
Aroclor-1242	0.2	1	NLE	-	ND	**27.424**	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	**0.657**	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	**0.532**	ND
PCB (total)	0.2	1	0.2	-	**0.657**	**27.424**	**1.277**	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11A			
Sample ID					FTMM02-SS-M2-B-11A-5-5.5	FTMM02-SS-M2-B-11A-6-6.5	FTMM02-SS-M2-B-11A-7-7.5	FTMM02-SS-M2-B-11A-8-8.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11A			
Sample ID					FTMM02-SS-M2-B-11A-5-5.5	FTMM02-SS-M2-B-11A-6-6.5	FTMM02-SS-M2-B-11A-7-7.5	FTMM02-SS-M2-B-11A-8-8.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	**5.526**	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**5.526**	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11B			
Sample ID					FTMM02-SS-M2-B-11B-0-0.5	FTMM02-SS-M2-B-11B-1-1.5	FTMM02-SS-M2-B-11B-2-2.5	FTMM02-SS-M2-B-11B-3-3.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11B			
Sample ID					FTMM02-SS-M2-B-11B-0-0.5	FTMM02-SS-M2-B-11B-1-1.5	FTMM02-SS-M2-B-11B-2-2.5	FTMM02-SS-M2-B-11B-3-3.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	**1.482**	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**1.482**	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11B			
Sample ID					FTMM02-SS-M2-B-11B-4-4.5	FTMM02-SS-M2-B-11B-5-5.5	FTMM02-SS-M2-B-11B-6-6.5	FTMM02-SS-M2-B-11B-7-7.5
Sample Date					1/24/2000	1/24/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11B			
Sample ID					FTMM02-SS-M2-B-11B-4-4.5	FTMM02-SS-M2-B-11B-5-5.5	FTMM02-SS-M2-B-11B-6-6.5	FTMM02-SS-M2-B-11B-7-7.5
Sample Date					1/24/2000	1/24/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	**1.277**	**1.646**	**0.323**	**0.582**
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**1.277**	**1.646**	**0.323**	**0.582**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11B		FTMM02-M2-B-11C	
Sample ID					FTMM02-SS-M2-B-11B-8-8.5	FTMM02-SS-M2-B-11B-9-9.5	FTMM02-SS-M2-B-11C-0-0.5	FTMM02-SS-M2-B-11C-1-1.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11B		FTMM02-M2-B-11C	
Sample ID					FTMM02-SS-M2-B-11B-8-8.5	FTMM02-SS-M2-B-11B-9-9.5	FTMM02-SS-M2-B-11C-0-0.5	FTMM02-SS-M2-B-11C-1-1.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11C			
Sample ID					FTMM02-SS-M2-B-11C-2-2.5	FTMM02-SS-M2-B-11C-3-3.5	FTMM02-SS-M2-B-11C-4-4.5	FTMM02-SS-M2-B-11C-5-5.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11C			
Sample ID					FTMM02-SS-M2-B-11C-2-2.5	FTMM02-SS-M2-B-11C-3-3.5	FTMM02-SS-M2-B-11C-4-4.5	FTMM02-SS-M2-B-11C-5-5.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	**4.06**	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	**4.06**	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11C			
Sample ID					FTMM02-SS-M2-B-11C-6-6.5	FTMM02-SS-M2-B-11C-7-7.5	FTMM02-SS-M2-B-11C-8-8.5	FTMM02-SS-M2-B-11C-9-9.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11C			
Sample ID					FTMM02-SS-M2-B-11C-6-6.5	FTMM02-SS-M2-B-11C-7-7.5	FTMM02-SS-M2-B-11C-8-8.5	FTMM02-SS-M2-B-11C-9-9.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	**0.978**	**0.301**	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**0.978**	**0.301**	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-0-0.5	FTMM02-SS-M2-B-11D-10.2-10.7	FTMM02-SS-M2-B-11D-11.2-11.7	FTMM02-SS-M2-B-11D-1-1.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-0-0.5	FTMM02-SS-M2-B-11D-10.2-10.7	FTMM02-SS-M2-B-11D-11.2-11.7	FTMM02-SS-M2-B-11D-1-1.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-12-12.5	FTMM02-SS-M2-B-11D-2-2.5	FTMM02-SS-M2-B-11D-3-3.5	FTMM02-SS-M2-B-11D-4-4.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-12-12.5	FTMM02-SS-M2-B-11D-2-2.5	FTMM02-SS-M2-B-11D-3-3.5	FTMM02-SS-M2-B-11D-4-4.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	**6.352**	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**6.352**	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-5-5.5	FTMM02-SS-M2-B-11D-6-6.5	FTMM02-SS-M2-B-11D-7-7.5	FTMM02-SS-M2-B-11D-8-8.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-5-5.5	FTMM02-SS-M2-B-11D-6-6.5	FTMM02-SS-M2-B-11D-7-7.5	FTMM02-SS-M2-B-11D-8-8.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	**9.339**	**17.262**	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**9.339**	**17.262**	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11D	FTMM02-M2-B-11E		
Sample ID					FTMM02-SS-M2-B-11D-9-9.5	FTMM02-SS-M2-B-11E-0-0.5	FTMM02-SS-M2-B-11E-1-1.5	FTMM02-SS-M2-B-11E-2-2.5
Sample Date					3/8/2000	3/16/2000	3/16/2000	3/16/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11D	FTMM02-M2-B-11E		
Sample ID					FTMM02-SS-M2-B-11D-9-9.5	FTMM02-SS-M2-B-11E-0-0.5	FTMM02-SS-M2-B-11E-1-1.5	FTMM02-SS-M2-B-11E-2-2.5
Sample Date					3/8/2000	3/16/2000	3/16/2000	3/16/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	**1.017**	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**1.017**	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11E			
Sample ID					FTMM02-SS-M2-B-11E-3-3.5	FTMM02-SS-M2-B-11E-4-4.5	FTMM02-SS-M2-B-11E-5-5.5	FTMM02-SS-M2-B-11E-6-6.5
Sample Date					3/16/2000	3/16/2000	3/16/2000	3/16/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11E			
Sample ID					FTMM02-SS-M2-B-11E-3-3.5	FTMM02-SS-M2-B-11E-4-4.5	FTMM02-SS-M2-B-11E-5-5.5	FTMM02-SS-M2-B-11E-6-6.5
Sample Date					3/16/2000	3/16/2000	3/16/2000	3/16/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	**187.444**	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	**187.444**	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11E			FTMM02-M2-B-11F
Sample ID					FTMM02-SS-M2-B-11E-7-7.5	FTMM02-SS-M2-B-11E-8-8.5	FTMM02-SS-M2-B-11E-9-9.5	FTMM02-SS-M2-B-11F-0-0.5
Sample Date					3/16/2000	3/16/2000	3/16/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11E			FTMM02-M2-B-11F
Sample ID					FTMM02-SS-M2-B-11E-7-7.5	FTMM02-SS-M2-B-11E-8-8.5	FTMM02-SS-M2-B-11E-9-9.5	FTMM02-SS-M2-B-11F-0-0.5
Sample Date					3/16/2000	3/16/2000	3/16/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11F			
Sample ID					FTMM02-SS-M2-B-11F-1-1.5	FTMM02-SS-M2-B-11F-2-2.5	FTMM02-SS-M2-B-11F-3-3.5	FTMM02-SS-M2-B-11F-4-4.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11F			
Sample ID					FTMM02-SS-M2-B-11F-1-1.5	FTMM02-SS-M2-B-11F-2-2.5	FTMM02-SS-M2-B-11F-3-3.5	FTMM02-SS-M2-B-11F-4-4.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11F			
Sample ID					FTMM02-SS-M2-B-11F-5-5.5	FTMM02-SS-M2-B-11F-6-6.5	FTMM02-SS-M2-B-11F-7-7.5	FTMM02-SS-M2-B-11F-8-8.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11F			
Sample ID					FTMM02-SS-M2-B-11F-5-5.5	FTMM02-SS-M2-B-11F-6-6.5	FTMM02-SS-M2-B-11F-7-7.5	FTMM02-SS-M2-B-11F-8-8.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11F	FTMM02-M2-B-12			
Sample ID					FTMM02-SS-M2-B-11F-9-9.5	FTMM02-SS-M2-B-12-0-0.5	FTMM02-SS-M2-B-12-1-1.5	FTMM02-SS-M2-B-12-2-2.5	FTMM02-SS-M2-B-12-3-3.5
Sample Date					3/22/2000	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-11F	FTMM02-M2-B-12			
Sample ID					FTMM02-SS-M2-B-11F-9-9.5	FTMM02-SS-M2-B-12-0-0.5	FTMM02-SS-M2-B-12-1-1.5	FTMM02-SS-M2-B-12-2-2.5	FTMM02-SS-M2-B-12-3-3.5
Sample Date					3/22/2000	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	**0.079**	**0.195**	**0.272**	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	**0.036**	**0.06**	**0.059**	ND
PCB (total)	0.2	1	0.2	-	ND	**0.115**	**0.255**	**0.331**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12		FTMM02-M2-B-12A		
Sample ID					FTMM02-SS-M2-B-12-4-4.5	FTMM02-SS-M2-B-12-5-5.5	FTMM02-SS-M2-B-12A-0-0.5	FTMM02-SS-M2-B-12A-1-1.5	FTMM02-SS-M2-B-12A-2-2.5
Sample Date					2/22/1999	2/22/1999	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12		FTMM02-M2-B-12A		
Sample ID					FTMM02-SS-M2-B-12-4-4.5	FTMM02-SS-M2-B-12-5-5.5	FTMM02-SS-M2-B-12A-0-0.5	FTMM02-SS-M2-B-12A-1-1.5	FTMM02-SS-M2-B-12A-2-2.5
Sample Date					2/22/1999	2/22/1999	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	**5.596**	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**5.596**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12A			FTMM02-M2-B-12B
Sample ID					FTMM02-SS-M2-B-12A-3-3.5	FTMM02-SS-M2-B-12A-4-4.5	FTMM02-SS-M2-B-12A-5-5.5	FTMM02-SS-M2-B-12B-0-0.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12A			FTMM02-M2-B-12B
Sample ID					FTMM02-SS-M2-B-12A-3-3.5	FTMM02-SS-M2-B-12A-4-4.5	FTMM02-SS-M2-B-12A-5-5.5	FTMM02-SS-M2-B-12B-0-0.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12B			
Sample ID					FTMM02-SS-M2-B-12B-1-1.5	FTMM02-SS-M2-B-12B-2-2.5	FTMM02-SS-M2-B-12B-3-3.5	FTMM02-SS-M2-B-12B-4-4.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12B			
Sample ID					FTMM02-SS-M2-B-12B-1-1.5	FTMM02-SS-M2-B-12B-2-2.5	FTMM02-SS-M2-B-12B-3-3.5	FTMM02-SS-M2-B-12B-4-4.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12B	FTMM02-M2-B-12C		
Sample ID					FTMM02-SS-M2-B-12B-5-5.5	FTMM02-SS-M2-B-12C-0-0.5	FTMM02-SS-M2-B-12C-1-1.5	FTMM02-SS-M2-B-12C-2-2.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12B	FTMM02-M2-B-12C		
Sample ID					FTMM02-SS-M2-B-12B-5-5.5	FTMM02-SS-M2-B-12C-0-0.5	FTMM02-SS-M2-B-12C-1-1.5	FTMM02-SS-M2-B-12C-2-2.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12C			FTMM02-M2-B-12D
Sample ID					FTMM02-SS-M2-B-12C-3-3.5	FTMM02-SS-M2-B-12C-4-4.5	FTMM02-SS-M2-B-12C-5-5.5	FTMM02-SS-M2-B-12D-0-0.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12C			FTMM02-M2-B-12D
Sample ID					FTMM02-SS-M2-B-12C-3-3.5	FTMM02-SS-M2-B-12C-4-4.5	FTMM02-SS-M2-B-12C-5-5.5	FTMM02-SS-M2-B-12D-0-0.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12D			
Sample ID					FTMM02-SS-M2-B-12D-1-1.5	FTMM02-SS-M2-B-12D-2-2.5	FTMM02-SS-M2-B-12D-3-3.5	FTMM02-SS-M2-B-12D-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12D			
Sample ID					FTMM02-SS-M2-B-12D-1-1.5	FTMM02-SS-M2-B-12D-2-2.5	FTMM02-SS-M2-B-12D-3-3.5	FTMM02-SS-M2-B-12D-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12D			
Sample ID					FTMM02-SS-M2-B-12D-5-5.5	FTMM02-SS-M2-B-12D-6-6.5	FTMM02-SS-M2-B-12D-7-7.5	FTMM02-SS-M2-B-12D-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12D			
Sample ID					FTMM02-SS-M2-B-12D-5-5.5	FTMM02-SS-M2-B-12D-6-6.5	FTMM02-SS-M2-B-12D-7-7.5	FTMM02-SS-M2-B-12D-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12D	FTMM02-M2-B-12E		
Sample ID					FTMM02-SS-M2-B-12D-9-9.5	FTMM02-SS-M2-B-12E-0-0.5	FTMM02-SS-M2-B-12E-1-1.5	FTMM02-SS-M2-B-12E-2-2.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12D	FTMM02-M2-B-12E		
Sample ID					FTMM02-SS-M2-B-12D-9-9.5	FTMM02-SS-M2-B-12E-0-0.5	FTMM02-SS-M2-B-12E-1-1.5	FTMM02-SS-M2-B-12E-2-2.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12E			
Sample ID					FTMM02-SS-M2-B-12E-3-3.5	FTMM02-SS-M2-B-12E-4-4.5	FTMM02-SS-M2-B-12E-5-5.5	FTMM02-SS-M2-B-12E-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12E			
Sample ID					FTMM02-SS-M2-B-12E-3-3.5	FTMM02-SS-M2-B-12E-4-4.5	FTMM02-SS-M2-B-12E-5-5.5	FTMM02-SS-M2-B-12E-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12E			FTMM02-M2-B-12F
Sample ID					FTMM02-SS-M2-B-12E-7-7.5	FTMM02-SS-M2-B-12E-8-8.5	FTMM02-SS-M2-B-12E-9-9.5	FTMM02-SS-M2-B-12F-0-0.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12E			FTMM02-M2-B-12F
Sample ID					FTMM02-SS-M2-B-12E-7-7.5	FTMM02-SS-M2-B-12E-8-8.5	FTMM02-SS-M2-B-12E-9-9.5	FTMM02-SS-M2-B-12F-0-0.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	**1.167**
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	**9.961**	ND
Aroclor-1260	0.2	1	NLE	-	ND	**2.315**	ND	ND
PCB (total)	0.2	1	0.2	-	ND	**2.315**	**9.961**	**1.167**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12F			
Sample ID					FTMM02-SS-M2-B-12F-1-1.5	FTMM02-SS-M2-B-12F-2-2.5	FTMM02-SS-M2-B-12F-3-3.5	FTMM02-SS-M2-B-12F-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12F			
Sample ID					FTMM02-SS-M2-B-12F-1-1.5	FTMM02-SS-M2-B-12F-2-2.5	FTMM02-SS-M2-B-12F-3-3.5	FTMM02-SS-M2-B-12F-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12F			
Sample ID					FTMM02-SS-M2-B-12F-5-5.5	FTMM02-SS-M2-B-12F-6-6.5	FTMM02-SS-M2-B-12F-7-7.5	FTMM02-SS-M2-B-12F-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12F			
Sample ID					FTMM02-SS-M2-B-12F-5-5.5	FTMM02-SS-M2-B-12F-6-6.5	FTMM02-SS-M2-B-12F-7-7.5	FTMM02-SS-M2-B-12F-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	**1.985**
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**1.985**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12F	FTMM02-M2-B-12G		
Sample ID					FTMM02-SS-M2-B-12F-9-9.5	FTMM02-SS-M2-B-12G-0-0.5	FTMM02-SS-M2-B-12G-1-1.5	FTMM02-SS-M2-B-12G-2-2.5
Sample Date					2/7/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12F	FTMM02-M2-B-12G		
Sample ID					FTMM02-SS-M2-B-12F-9-9.5	FTMM02-SS-M2-B-12G-0-0.5	FTMM02-SS-M2-B-12G-1-1.5	FTMM02-SS-M2-B-12G-2-2.5
Sample Date					2/7/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	**0.556**	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	**0.556**	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12G
Sample ID					FTMM02-SS-M2-B-12G-3-3.5
Sample Date					3/22/2000
Volatile Organic Compounds (µg/kg)					
Acetone	70,000,000	NLE	19,000	-	NA
Benzene	2,000	5,000	5	-	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA
Chlorobenzene	510,000	7,400,000	600	-	NA
Chloroform	600	2,000	400	-	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA
Methylene chloride	34,000	97,000	10	-	NA
Toluene	6,300,000	91,000,000	7,000	-	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA
TIC VOCs (µg/kg)					
Total TIC, Volatile	NLE	NLE	NLE	-	NA
Semivolatile Organic Compounds (µg/kg)					
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA
Azobenzene	NLE	NLE	NLE	-	NA
Benzo(a)anthracene	600	2,000	800	-	NA
Benzo(a)pyrene	200	200	200	-	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA
Chrysene	62,000	230,000	80,000	-	NA
Dibenz(a,h)anthracene	200	200	800	-	NA
Dibenzofuran	NLE	NLE	NLE	-	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA
Naphthalene	6,000	17,000	25,000	-	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA
TIC SVOCs (µg/kg)					
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12G
Sample ID					FTMM02-SS-M2-B-12G-3-3.5
Sample Date					3/22/2000
Pesticides & PCBs (mg/kg)					
4,4'-DDD	3	13	4	-	NA
4,4'-DDE	2	9	18	-	NA
4,4'-DDT	2	8	11	-	NA
Alpha-Chlordane	NLE	1	NLE	-	NA
Dieldrin	0.04	0.2	0.003	-	NA
Endrin	23	340	1	-	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA
Gamma-Chlordane	0.2	1	NLE	-	NA
Pesticides & PCBs (mg/kg)					
Aroclor-1016	0.2	1	NLE	-	ND
Aroclor-1242	0.2	1	NLE	-	ND
Aroclor-1248	0.2	1	NLE	-	NA
Aroclor-1254	0.2	1	NLE	-	ND
Aroclor-1260	0.2	1	NLE	-	ND
PCB (total)	0.2	1	0.2	-	ND
Inorganics (mg/kg)					
Aluminum	78,000	NLE	6,000	15,200	NA
Antimony	31	450	6	ND	NA
Arsenic	19	19	19	22.9	NA
Barium	16,000	59,000	2,100	32.3	NA
Beryllium	16	140	0.7	2	NA
Cadmium	78	78	2	ND	NA
Calcium	NLE	NLE	NLE	921	NA
Chromium	NLE	NLE	NLE	269	NA
Cobalt	1,600	590	90	2.5	NA
Copper	3,100	45,000	11,000	8	NA
Iron	NLE	NLE	NLE	55,800	NA
Lead	400	800	90	19.5	NA
Magnesium	NLE	NLE	NLE	7,230	NA
Manganese	11,000	5,900	65	90.7	NA
Mercury	23	65	0.1	ND	NA
Nickel	1,600	23,000	48	8.4	NA
Potassium	NLE	NLE	NLE	15,400	NA
Selenium	390	5,700	11	1.9	NA
Silver	390	5,700	1	1.1	NA
Sodium	NLE	NLE	NLE	51.6	NA
Thallium	5	79	3	ND	NA
Vanadium	78	1,100	NLE	94.1	NA
Zinc	23,000	110,000	930	81.4	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12G			
Sample ID					FTMM02-SS-M2-B-12G-4-4.5	FTMM02-SS-M2-B-12G-5-5.5	FTMM02-SS-M2-B-12G-6-6.5	FTMM02-SS-M2-B-12G-7-7.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12G			
Sample ID					FTMM02-SS-M2-B-12G-4-4.5	FTMM02-SS-M2-B-12G-5-5.5	FTMM02-SS-M2-B-12G-6-6.5	FTMM02-SS-M2-B-12G-7-7.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12G		FTMM02-M2-B-12H	
Sample ID					FTMM02-SS-M2-B-12G-8-8.5	FTMM02-SS-M2-B-12G-9-9.5	FTMM02-SS-M2-B-12H-0-0.5	FTMM02-SS-M2-B-12H-1-1.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12G		FTMM02-M2-B-12H	
Sample ID					FTMM02-SS-M2-B-12G-8-8.5	FTMM02-SS-M2-B-12G-9-9.5	FTMM02-SS-M2-B-12H-0-0.5	FTMM02-SS-M2-B-12H-1-1.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	**0.496**	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**0.496**	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12H			
Sample ID					FTMM02-SS-M2-B-12H-2-2.5	FTMM02-SS-M2-B-12H-3-3.5	FTMM02-SS-M2-B-12H-4-4.5	FTMM02-SS-M2-B-12H-5-5.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12H			
Sample ID					FTMM02-SS-M2-B-12H-2-2.5	FTMM02-SS-M2-B-12H-3-3.5	FTMM02-SS-M2-B-12H-4-4.5	FTMM02-SS-M2-B-12H-5-5.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	**1.533**	**1.885**
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**1.533**	**1.885**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12H			
Sample ID					FTMM02-SS-M2-B-12H-6-6.5	FTMM02-SS-M2-B-12H-7-7.5	FTMM02-SS-M2-B-12H-8-8.5	FTMM02-SS-M2-B-12H-9-9.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12H			
Sample ID					FTMM02-SS-M2-B-12H-6-6.5	FTMM02-SS-M2-B-12H-7-7.5	FTMM02-SS-M2-B-12H-8-8.5	FTMM02-SS-M2-B-12H-9-9.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12I			
Sample ID					FTMM02-SS-M2-B-12I-0-0.5	FTMM02-SS-M2-B-12I-1-1.5	FTMM02-SS-M2-B-12I-2-2.5	FTMM02-SS-M2-B-12I-3-3.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12I			
Sample ID					FTMM02-SS-M2-B-12I-0-0.5	FTMM02-SS-M2-B-12I-1-1.5	FTMM02-SS-M2-B-12I-2-2.5	FTMM02-SS-M2-B-12I-3-3.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	**6.697**	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**6.697**	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12I			
Sample ID					FTMM02-SS-M2-B-12I-4-4.5	FTMM02-SS-M2-B-12I-5-5.5	FTMM02-SS-M2-B-12I-6-6.5	FTMM02-SS-M2-B-12I-7-7.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12I			
Sample ID					FTMM02-SS-M2-B-12I-4-4.5	FTMM02-SS-M2-B-12I-5-5.5	FTMM02-SS-M2-B-12I-6-6.5	FTMM02-SS-M2-B-12I-7-7.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12I		FTMM02-M2-B-13		
Sample ID					FTMM02-SS-M2-B-12I-8-8.5	FTMM02-SS-M2-B-12I-9-9.5	FTMM02-SS-M2-B-13-0-0.5	FTMM02-SS-M2-B-13-1-1.5	FTMM02-SS-M2-B-13-2-2.5
Sample Date					3/22/2000	3/22/2000	2/23/1999	2/23/1999	2/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-12I		FTMM02-M2-B-13		
Sample ID					FTMM02-SS-M2-B-12I-8-8.5	FTMM02-SS-M2-B-12I-9-9.5	FTMM02-SS-M2-B-13-0-0.5	FTMM02-SS-M2-B-13-1-1.5	FTMM02-SS-M2-B-13-2-2.5
Sample Date					3/22/2000	3/22/2000	2/23/1999	2/23/1999	2/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-13				
Sample ID					FTMM02-SS-M2-B-13-3-3.5	FTMM02-SS-M2-B-13-4-4.5	FTMM02-SS-M2-B-13-5-5.5	FTMM02-SS-M2-B-13-6-6.5	FTMM02-SS-M2-B-13-7-7.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-13				
Sample ID					FTMM02-SS-M2-B-13-3-3.5	FTMM02-SS-M2-B-13-4-4.5	FTMM02-SS-M2-B-13-5-5.5	FTMM02-SS-M2-B-13-6-6.5	FTMM02-SS-M2-B-13-7-7.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	**0.915**	**3.17**	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	**1.491**	ND	ND
PCB (total)	0.2	1	0.2	-	ND	**0.915**	**4.661**	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-13		FTMM02-M2-B-14		
Sample ID					FTMM02-SS-M2-B-13-8-8.5	FTMM02-SS-M2-B-13-9-9.5	FTMM02-SS-M2-B-14-0-0.5	FTMM02-SS-M2-B-14-1-1.5	FTMM02-SS-M2-B-14-2-2.5
Sample Date					1/24/2000	1/24/2000	2/23/1999	2/23/1999	2/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-13		FTMM02-M2-B-14		
Sample ID					FTMM02-SS-M2-B-13-8-8.5	FTMM02-SS-M2-B-13-9-9.5	FTMM02-SS-M2-B-14-0-0.5	FTMM02-SS-M2-B-14-1-1.5	FTMM02-SS-M2-B-14-2-2.5
Sample Date					1/24/2000	1/24/2000	2/23/1999	2/23/1999	2/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	**0.236**	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	**0.102**	**0.072**	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**0.102**	**0.308**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-14			FTMM02-M2-B-15	
Sample ID					FTMM02-SS-M2-B-14-3-3.5	FTMM02-SS-M2-B-14-4-4.5	FTMM02-SS-M2-B-14-5-5.5	FTMM02-SS-M2-B-15-0-0.5	FTMM02-SS-M2-B-15-1-1.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-14			FTMM02-M2-B-15	
Sample ID					FTMM02-SS-M2-B-14-3-3.5	FTMM02-SS-M2-B-14-4-4.5	FTMM02-SS-M2-B-14-5-5.5	FTMM02-SS-M2-B-15-0-0.5	FTMM02-SS-M2-B-15-1-1.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	**0.402**	**0.083**	**0.14**
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	**0.062**	**0.089**	**0.058**
PCB (total)	0.2	1	0.2	-	ND	ND	**0.464**	**0.172**	**0.198**
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-15				FTMM02-M2-B-15A
Sample ID					FTMM02-SS-M2-B-15-2-2.5	FTMM02-SS-M2-B-15-3-3.5	FTMM02-SS-M2-B-15-4-4.5	FTMM02-SS-M2-B-15-5-5.5	FTMM02-SS-M2-B-15A-0-0.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-15				FTMM02-M2-B-15A
Sample ID					FTMM02-SS-M2-B-15-2-2.5	FTMM02-SS-M2-B-15-3-3.5	FTMM02-SS-M2-B-15-4-4.5	FTMM02-SS-M2-B-15-5-5.5	FTMM02-SS-M2-B-15A-0-0.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	**0.134**	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**0.134**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-15A			
Sample ID					FTMM02-SS-M2-B-15A-1-1.5	FTMM02-SS-M2-B-15A-2-2.5	FTMM02-SS-M2-B-15A-3-3.5	FTMM02-SS-M2-B-15A-4-4.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-15A			
Sample ID					FTMM02-SS-M2-B-15A-1-1.5	FTMM02-SS-M2-B-15A-2-2.5	FTMM02-SS-M2-B-15A-3-3.5	FTMM02-SS-M2-B-15A-4-4.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-15A			
Sample ID					FTMM02-SS-M2-B-15A-5-5.5	FTMM02-SS-M2-B-15A-6-6.5	FTMM02-SS-M2-B-15A-7-7.5	FTMM02-SS-M2-B-15A-8-8.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-15A			
Sample ID					FTMM02-SS-M2-B-15A-5-5.5	FTMM02-SS-M2-B-15A-6-6.5	FTMM02-SS-M2-B-15A-7-7.5	FTMM02-SS-M2-B-15A-8-8.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	**42.494**	ND
Aroclor-1260	0.2	1	NLE	-	**0.667**	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**0.667**	ND	**42.494**	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-15B			
Sample ID					FTMM02-SS-M2-B-15B-0-0.5	FTMM02-SS-M2-B-15B-1-1.5	FTMM02-SS-M2-B-15B-2-2.5	FTMM02-SS-M2-B-15B-3-3.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-15B			
Sample ID					FTMM02-SS-M2-B-15B-0-0.5	FTMM02-SS-M2-B-15B-1-1.5	FTMM02-SS-M2-B-15B-2-2.5	FTMM02-SS-M2-B-15B-3-3.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-15B			
Sample ID					FTMM02-SS-M2-B-15B-4-4.5	FTMM02-SS-M2-B-15B-5-5.5	FTMM02-SS-M2-B-15B-6-6.5	FTMM02-SS-M2-B-15B-7-7.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-15B			
Sample ID					FTMM02-SS-M2-B-15B-4-4.5	FTMM02-SS-M2-B-15B-5-5.5	FTMM02-SS-M2-B-15B-6-6.5	FTMM02-SS-M2-B-15B-7-7.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-16				
Sample ID					FTMM02-SS-M2-B-16-0-0.5	FTMM02-SS-M2-B-16-1-1.5	FTMM02-SS-M2-B-16-2-2.5	FTMM02-SS-M2-B-16-3-3.5	FTMM02-SS-M2-B-16-4-4.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-16				
Sample ID					FTMM02-SS-M2-B-16-0-0.5	FTMM02-SS-M2-B-16-1-1.5	FTMM02-SS-M2-B-16-2-2.5	FTMM02-SS-M2-B-16-3-3.5	FTMM02-SS-M2-B-16-4-4.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	**0.116**	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	**0.054**	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**0.17**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-16	FTMM02-M2-B-17			
Sample ID					FTMM02-SS-M2-B-16-5-5.5	FTMM02-SS-M2-B-17-0-0.5	FTMM02-SS-M2-B-17-1-1.5	FTMM02-SS-M2-B-17-2-2.5	FTMM02-SS-M2-B-17-3-3.5
Sample Date					2/23/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-16	FTMM02-M2-B-17			
Sample ID					FTMM02-SS-M2-B-16-5-5.5	FTMM02-SS-M2-B-17-0-0.5	FTMM02-SS-M2-B-17-1-1.5	FTMM02-SS-M2-B-17-2-2.5	FTMM02-SS-M2-B-17-3-3.5
Sample Date					2/23/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	**0.59**	ND	ND	ND	**40.042**
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**0.129**	ND	ND	ND	**0.867**
PCB (total)	0.2	1	0.2	-	**0.719**	ND	ND	ND	**40.909**
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-17		FTMM02-M2-B-18		
Sample ID					FTMM02-SS-M2-B-17-4-4.5	FTMM02-SS-M2-B-17-5-5.5	FTMM02-SS-M2-B-18-0-0.5	FTMM02-SS-M2-B-18-1-1.5	FTMM02-SS-M2-B-18-2-2.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-17		FTMM02-M2-B-18		
Sample ID					FTMM02-SS-M2-B-17-4-4.5	FTMM02-SS-M2-B-17-5-5.5	FTMM02-SS-M2-B-18-0-0.5	FTMM02-SS-M2-B-18-1-1.5	FTMM02-SS-M2-B-18-2-2.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	**0.518**	**1.058**	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**0.041**	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**0.559**	**1.058**	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-18				
Sample ID					FTMM02-SS-M2-B-18-3-3.5	FTMM02-SS-M2-B-18-4-4.5	FTMM02-SS-M2-B-18-5-5.5	FTMM02-SS-M2-B-18-6-6.5	FTMM02-SS-M2-B-18-7-7.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-18				
Sample ID					FTMM02-SS-M2-B-18-3-3.5	FTMM02-SS-M2-B-18-4-4.5	FTMM02-SS-M2-B-18-5-5.5	FTMM02-SS-M2-B-18-6-6.5	FTMM02-SS-M2-B-18-7-7.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	**394.167**	**5.089**	**4.733**	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**2.893**	**0.478**	**0.042**	ND	ND
PCB (total)	0.2	1	0.2	-	**397.06**	**5.567**	**4.775**	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-18		FTMM02-M2-B-18A		
Sample ID					FTMM02-SS-M2-B-18-8-8.5	FTMM02-SS-M2-B-18-9-9.5	FTMM02-SS-M2-B-18A-0-0.5	FTMM02-SS-M2-B-18A-1-1.5	FTMM02-SS-M2-B-18A-2-2.5
Sample Date					1/24/2000	1/24/2000	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-18		FTMM02-M2-B-18A		
Sample ID					FTMM02-SS-M2-B-18-8-8.5	FTMM02-SS-M2-B-18-9-9.5	FTMM02-SS-M2-B-18A-0-0.5	FTMM02-SS-M2-B-18A-1-1.5	FTMM02-SS-M2-B-18A-2-2.5
Sample Date					1/24/2000	1/24/2000	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-18A			
Sample ID					FTMM02-SS-M2-B-18A-3-3.5	FTMM02-SS-M2-B-18A-4-4.5	FTMM02-SS-M2-B-18A-5-5.5	FTMM02-SS-M2-B-18A-6-6.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-18A			
Sample ID					FTMM02-SS-M2-B-18A-3-3.5	FTMM02-SS-M2-B-18A-4-4.5	FTMM02-SS-M2-B-18A-5-5.5	FTMM02-SS-M2-B-18A-6-6.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-18B			
Sample ID					FTMM02-SS-M2-B-18B-0-0.5	FTMM02-SS-M2-B-18B-1-1.5	FTMM02-SS-M2-B-18B-2-2.5	FTMM02-SS-M2-B-18B-3-3.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-18B			
Sample ID					FTMM02-SS-M2-B-18B-0-0.5	FTMM02-SS-M2-B-18B-1-1.5	FTMM02-SS-M2-B-18B-2-2.5	FTMM02-SS-M2-B-18B-3-3.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-18B			
Sample ID					FTMM02-SS-M2-B-18B-4-4.5	FTMM02-SS-M2-B-18B-5-5.5	FTMM02-SS-M2-B-18B-6-6.5	FTMM02-SS-M2-B-18B-7-7.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-18B			
Sample ID					FTMM02-SS-M2-B-18B-4-4.5	FTMM02-SS-M2-B-18B-5-5.5	FTMM02-SS-M2-B-18B-6-6.5	FTMM02-SS-M2-B-18B-7-7.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-19				
Sample ID					FTMM02-SS-M2-B-19-0-0.5	FTMM02-SS-M2-B-19-1-1.5	FTMM02-SS-M2-B-19-2-2.5	FTMM02-SS-M2-B-19-3-3.5	FTMM02-SS-M2-B-19-4-4.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-19				
Sample ID					FTMM02-SS-M2-B-19-0-0.5	FTMM02-SS-M2-B-19-1-1.5	FTMM02-SS-M2-B-19-2-2.5	FTMM02-SS-M2-B-19-3-3.5	FTMM02-SS-M2-B-19-4-4.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	**1.892**	**4.111**
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	**0.104**	**0.918**
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**1.996**	**5.029**
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-19				
Sample ID					FTMM02-SS-M2-B-19-5-5.5	FTMM02-SS-M2-B-19-6-6.5	FTMM02-SS-M2-B-19-7-7.5	FTMM02-SS-M2-B-19-8-8.5	FTMM02-SS-M2-B-19-9-9.5
Sample Date					3/1/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-19				
Sample ID					FTMM02-SS-M2-B-19-5-5.5	FTMM02-SS-M2-B-19-6-6.5	FTMM02-SS-M2-B-19-7-7.5	FTMM02-SS-M2-B-19-8-8.5	FTMM02-SS-M2-B-19-9-9.5
Sample Date					3/1/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	**24.754**	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**0.558**	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**25.312**	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-2				
Sample ID					FTMM02-SS-M2-B-2-0-0.5	FTMM02-SS-M2-B-2-1-1.5	FTMM02-SS-M2-B-2-2-2.5	FTMM02-SS-M2-B-2-3-3.5	FTMM02-SS-M2-B-2-4-4.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-2				
Sample ID					FTMM02-SS-M2-B-2-0-0.5	FTMM02-SS-M2-B-2-1-1.5	FTMM02-SS-M2-B-2-2-2.5	FTMM02-SS-M2-B-2-3-3.5	FTMM02-SS-M2-B-2-4-4.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	**1.162**	ND	**12.481**	**12.413**
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	**0.11**	ND	**0.499**	**0.727**
PCB (total)	0.2	1	0.2	-	ND	**1.272**	ND	**12.98**	**13.14**
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-2	FTMM02-M2-B-20
Sample ID					FTMM02-SS-M2-B-2-5-5.5	FTMM02-SS-M2-B-20-0-0.5
Sample Date					2/17/1999	3/1/1999
Volatile Organic Compounds (µg/kg)						
Acetone	70,000,000	NLE	19,000	-	NA	NA
Benzene	2,000	5,000	5	-	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA
Chloroform	600	2,000	400	-	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA
TIC VOCs (µg/kg)						
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA
Semivolatile Organic Compounds (µg/kg)						
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA
TIC SVOCs (µg/kg)						
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-2	FTMM02-M2-B-20
Sample ID					FTMM02-SS-M2-B-2-5-5.5	FTMM02-SS-M2-B-20-0-0.5
Sample Date					2/17/1999	3/1/1999
Pesticides & PCBs (mg/kg)						
4,4'-DDD	3	13	4	-	NA	NA
4,4'-DDE	2	9	18	-	NA	NA
4,4'-DDT	2	8	11	-	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA
Endrin	23	340	1	-	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA
Pesticides & PCBs (mg/kg)						
Aroclor-1016	0.2	1	NLE	-	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND
Inorganics (mg/kg)						
Aluminum	78,000	NLE	6,000	15,200	NA	NA
Antimony	31	450	6	ND	NA	NA
Arsenic	19	19	19	22.9	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA
Beryllium	16	140	0.7	2	NA	NA
Cadmium	78	78	2	ND	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA
Lead	400	800	90	19.5	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA
Mercury	23	65	0.1	ND	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA
Selenium	390	5,700	11	1.9	NA	NA
Silver	390	5,700	1	1.1	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA
Thallium	5	79	3	ND	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-20				
Sample ID					FTMM02-SS-M2-B-20-1-1.5	FTMM02-SS-M2-B-20-2-2.5	FTMM02-SS-M2-B-20-3-3.5	FTMM02-SS-M2-B-20-4-4.5	FTMM02-SS-M2-B-20-5-5.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-20				
Sample ID					FTMM02-SS-M2-B-20-1-1.5	FTMM02-SS-M2-B-20-2-2.5	FTMM02-SS-M2-B-20-3-3.5	FTMM02-SS-M2-B-20-4-4.5	FTMM02-SS-M2-B-20-5-5.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	**0.264**	**0.58**
Aroclor-1260	0.2	1	NLE	-	**0.009**	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**0.009**	ND	ND	**0.264**	**0.58**
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21				
Sample ID					FTMM02-SS-M2-B-21-0-0.5	FTMM02-SS-M2-B-21-1-1.5	FTMM02-SS-M2-B-21-2-2.5	FTMM02-SS-M2-B-21-3-3.5	FTMM02-SS-M2-B-21-4-4.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21				
Sample ID					FTMM02-SS-M2-B-21-0-0.5	FTMM02-SS-M2-B-21-1-1.5	FTMM02-SS-M2-B-21-2-2.5	FTMM02-SS-M2-B-21-3-3.5	FTMM02-SS-M2-B-21-4-4.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	**0.039**	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**0.039**	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21				
Sample ID					FTMM02-SS-M2-B-21-5-5.5	FTMM02-SS-M2-B-21-6-6.5	FTMM02-SS-M2-B-21-7-7.5	FTMM02-SS-M2-B-21-8-8.5	FTMM02-SS-M2-B-21-9-9.5
Sample Date					3/2/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21				
Sample ID					FTMM02-SS-M2-B-21-5-5.5	FTMM02-SS-M2-B-21-6-6.5	FTMM02-SS-M2-B-21-7-7.5	FTMM02-SS-M2-B-21-8-8.5	FTMM02-SS-M2-B-21-9-9.5
Sample Date					3/2/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	**21.553**	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**0.843**	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**22.396**	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21A			
Sample ID					FTMM02-SS-M2-B-21A-0-0.5	FTMM02-SS-M2-B-21A-1-1.5	FTMM02-SS-M2-B-21A-2-2.5	FTMM02-SS-M2-B-21A-3-3.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21A			
Sample ID					FTMM02-SS-M2-B-21A-0-0.5	FTMM02-SS-M2-B-21A-1-1.5	FTMM02-SS-M2-B-21A-2-2.5	FTMM02-SS-M2-B-21A-3-3.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21A			FTMM02-M2-B-21B
Sample ID					FTMM02-SS-M2-B-21A-4-4.5	FTMM02-SS-M2-B-21A-5-5.5	FTMM02-SS-M2-B-21A-6-6.5	FTMM02-SS-M2-B-21B-0-0.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/24/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21A			FTMM02-M2-B-21B
Sample ID					FTMM02-SS-M2-B-21A-4-4.5	FTMM02-SS-M2-B-21A-5-5.5	FTMM02-SS-M2-B-21A-6-6.5	FTMM02-SS-M2-B-21B-0-0.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/24/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21B			
Sample ID					FTMM02-SS-M2-B-21B-1-1.5	FTMM02-SS-M2-B-21B-2-2.5	FTMM02-SS-M2-B-21B-3-3.5	FTMM02-SS-M2-B-21B-4-4.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21B			
Sample ID					FTMM02-SS-M2-B-21B-1-1.5	FTMM02-SS-M2-B-21B-2-2.5	FTMM02-SS-M2-B-21B-3-3.5	FTMM02-SS-M2-B-21B-4-4.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21B			FTMM02-M2-B-22	
Sample ID					FTMM02-SS-M2-B-21B-5-5.5	FTMM02-SS-M2-B-21B-6-6.5	FTMM02-SS-M2-B-21B-7-7.5	FTMM02-SS-M2-B-22-0-0.5	FTMM02-SS-M2-B-22-1-1.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	3/2/1999	3/2/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-21B			FTMM02-M2-B-22	
Sample ID					FTMM02-SS-M2-B-21B-5-5.5	FTMM02-SS-M2-B-21B-6-6.5	FTMM02-SS-M2-B-21B-7-7.5	FTMM02-SS-M2-B-22-0-0.5	FTMM02-SS-M2-B-22-1-1.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	3/2/1999	3/2/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-22				FTMM02-M2-B-23
Sample ID					FTMM02-SS-M2-B-22-2-2.5	FTMM02-SS-M2-B-22-3-3.5	FTMM02-SS-M2-B-22-4-4.5	FTMM02-SS-M2-B-22-5-5.5	FTMM02-SS-M2-B-23-0-0.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-22				FTMM02-M2-B-23
Sample ID					FTMM02-SS-M2-B-22-2-2.5	FTMM02-SS-M2-B-22-3-3.5	FTMM02-SS-M2-B-22-4-4.5	FTMM02-SS-M2-B-22-5-5.5	FTMM02-SS-M2-B-23-0-0.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	**0.185**	**0.193**	**0.429**	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**0.09**	ND	**0.086**	**0.064**	ND
PCB (total)	0.2	1	0.2	-	**0.275**	**0.193**	**0.515**	**0.064**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-23				
Sample ID					FTMM02-SS-M2-B-23-1-1.5	FTMM02-SS-M2-B-23-2-2.5	FTMM02-SS-M2-B-23-3-3.5	FTMM02-SS-M2-B-23-4-4.5	FTMM02-SS-M2-B-23-5-5.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-23				
Sample ID					FTMM02-SS-M2-B-23-1-1.5	FTMM02-SS-M2-B-23-2-2.5	FTMM02-SS-M2-B-23-3-3.5	FTMM02-SS-M2-B-23-4-4.5	FTMM02-SS-M2-B-23-5-5.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	**0.831**	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	**0.083**	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**0.914**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24				
Sample ID					FTMM02-SS-M2-B-24-0-0.5	FTMM02-SS-M2-B-24-1-1.5	FTMM02-SS-M2-B-24-2-2.5	FTMM02-SS-M2-B-24-3-3.5	FTMM02-SS-M2-B-24-4-4.5
Sample Date					3/3/1999	3/3/1999	3/3/1999	3/3/1999	3/3/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24				
Sample ID					FTMM02-SS-M2-B-24-0-0.5	FTMM02-SS-M2-B-24-1-1.5	FTMM02-SS-M2-B-24-2-2.5	FTMM02-SS-M2-B-24-3-3.5	FTMM02-SS-M2-B-24-4-4.5
Sample Date					3/3/1999	3/3/1999	3/3/1999	3/3/1999	3/3/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24	FTMM02-M2-B-24A		
Sample ID					FTMM02-SS-M2-B-24-5-5.5	FTMM02-SS-M2-B-24A-0-0.5	FTMM02-SS-M2-B-24A-1-1.5	FTMM02-SS-M2-B-24A-2-2.5
Sample Date					3/3/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24	FTMM02-M2-B-24A		
Sample ID					FTMM02-SS-M2-B-24-5-5.5	FTMM02-SS-M2-B-24A-0-0.5	FTMM02-SS-M2-B-24A-1-1.5	FTMM02-SS-M2-B-24A-2-2.5
Sample Date					3/3/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24A			
Sample ID					FTMM02-SS-M2-B-24A-3-3.5	FTMM02-SS-M2-B-24A-4-4.5	FTMM02-SS-M2-B-24A-5-5.5	FTMM02-SS-M2-B-24A-6-6.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24A			
Sample ID					FTMM02-SS-M2-B-24A-3-3.5	FTMM02-SS-M2-B-24A-4-4.5	FTMM02-SS-M2-B-24A-5-5.5	FTMM02-SS-M2-B-24A-6-6.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	**5.364**
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**5.364**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24A			
Sample ID					FTMM02-SS-M2-B-24A-10-10.5	FTMM02-SS-M2-B-24A-11-11.5	FTMM02-SS-M2-B-24A-7-7.5	FTMM02-SS-M2-B-24A-8-8.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24A			
Sample ID					FTMM02-SS-M2-B-24A-10-10.5	FTMM02-SS-M2-B-24A-11-11.5	FTMM02-SS-M2-B-24A-7-7.5	FTMM02-SS-M2-B-24A-8-8.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24A	FTMM02-M2-B-24B		
Sample ID					FTMM02-SS-M2-B-24A-9-9.5	FTMM02-SS-M2-B-24B-0-0.5	FTMM02-SS-M2-B-24B-0-0.5-Dup	FTMM02-SS-M2-B-24B-1-1.5
Sample Date					1/24/2000	11/24/1999	11/24/1999	11/24/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24A	FTMM02-M2-B-24B		
Sample ID					FTMM02-SS-M2-B-24A-9-9.5	FTMM02-SS-M2-B-24B-0-0.5	FTMM02-SS-M2-B-24B-0-0.5-Dup	FTMM02-SS-M2-B-24B-1-1.5
Sample Date					1/24/2000	11/24/1999	11/24/1999	11/24/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B			
Sample ID					FTMM02-SS-M2-B-24B-1-1.5-Dup	FTMM02-SS-M2-B-24B-2-2.5	FTMM02-SS-M2-B-24B-2-2.5-Dup	FTMM02-SS-M2-B-24B-3-3.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B			
Sample ID					FTMM02-SS-M2-B-24B-1-1.5-Dup	FTMM02-SS-M2-B-24B-2-2.5	FTMM02-SS-M2-B-24B-2-2.5-Dup	FTMM02-SS-M2-B-24B-3-3.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B			
Sample ID					FTMM02-SS-M2-B-24B-3-3.5-Dup	FTMM02-SS-M2-B-24B-4-4.5	FTMM02-SS-M2-B-24B-4-4.5-Dup	FTMM02-SS-M2-B-24B-5-5.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B			
Sample ID					FTMM02-SS-M2-B-24B-3-3.5-Dup	FTMM02-SS-M2-B-24B-4-4.5	FTMM02-SS-M2-B-24B-4-4.5-Dup	FTMM02-SS-M2-B-24B-5-5.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B			
Sample ID					FTMM02-SS-M2-B-24B-5-5.5-Dup	FTMM02-SS-M2-B-24B-6.5-7	FTMM02-SS-M2-B-24B-6-6.5	FTMM02-SS-M2-B-24B-6-6.5-Dup
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B			
Sample ID					FTMM02-SS-M2-B-24B-5-5.5-Dup	FTMM02-SS-M2-B-24B-6.5-7	FTMM02-SS-M2-B-24B-6-6.5	FTMM02-SS-M2-B-24B-6-6.5-Dup
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B	FTMM02-M2-B-24C		
Sample ID					FTMM02-SS-M2-B-24B-7-7.5-Dup	FTMM02-SS-M2-B-24C-0-0.5	FTMM02-SS-M2-B-24C-1-1.5	FTMM02-SS-M2-B-24C-2-2.5
Sample Date					11/24/1999	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B	FTMM02-M2-B-24C		
Sample ID					FTMM02-SS-M2-B-24B-7-7.5-Dup	FTMM02-SS-M2-B-24C-0-0.5	FTMM02-SS-M2-B-24C-1-1.5	FTMM02-SS-M2-B-24C-2-2.5
Sample Date					11/24/1999	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24C			
Sample ID					FTMM02-SS-M2-B-24C-3-3.5	FTMM02-SS-M2-B-24C-4-4.5	FTMM02-SS-M2-B-24C-5-5.5	FTMM02-SS-M2-B-24C-6-6.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24C			
Sample ID					FTMM02-SS-M2-B-24C-3-3.5	FTMM02-SS-M2-B-24C-4-4.5	FTMM02-SS-M2-B-24C-5-5.5	FTMM02-SS-M2-B-24C-6-6.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	**9.354**	**805.055**	**48.835**	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**9.354**	**805.055**	**48.835**	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24C			FTMM02-M2-B-24D
Sample ID					FTMM02-SS-M2-B-24C-7-7.5	FTMM02-SS-M2-B-24C-8-8.5	FTMM02-SS-M2-B-24C-9-9.5	FTMM02-SS-M2-B-24D-0-0.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24C			FTMM02-M2-B-24D
Sample ID					FTMM02-SS-M2-B-24C-7-7.5	FTMM02-SS-M2-B-24C-8-8.5	FTMM02-SS-M2-B-24C-9-9.5	FTMM02-SS-M2-B-24D-0-0.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24D			
Sample ID					FTMM02-SS-M2-B-24D-1-1.5	FTMM02-SS-M2-B-24D-2-2.5	FTMM02-SS-M2-B-24D-3-3.5	FTMM02-SS-M2-B-24D-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24D			
Sample ID					FTMM02-SS-M2-B-24D-1-1.5	FTMM02-SS-M2-B-24D-2-2.5	FTMM02-SS-M2-B-24D-3-3.5	FTMM02-SS-M2-B-24D-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24D			
Sample ID					FTMM02-SS-M2-B-24D-5-5.5	FTMM02-SS-M2-B-24D-6-6.5	FTMM02-SS-M2-B-24D-7-7.5	FTMM02-SS-M2-B-24D-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24D			
Sample ID					FTMM02-SS-M2-B-24D-5-5.5	FTMM02-SS-M2-B-24D-6-6.5	FTMM02-SS-M2-B-24D-7-7.5	FTMM02-SS-M2-B-24D-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24D	FTMM02-M2-B-24E		
Sample ID					FTMM02-SS-M2-B-24D-9-9.5	FTMM02-SS-M2-B-24E-0-0.5	FTMM02-SS-M2-B-24E-1-1.5	FTMM02-SS-M2-B-24E-2-2.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24D	FTMM02-M2-B-24E		
Sample ID					FTMM02-SS-M2-B-24D-9-9.5	FTMM02-SS-M2-B-24E-0-0.5	FTMM02-SS-M2-B-24E-1-1.5	FTMM02-SS-M2-B-24E-2-2.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	**0.596**
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**0.596**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24E			
Sample ID					FTMM02-SS-M2-B-24E-3-3.5	FTMM02-SS-M2-B-24E-4-4.5	FTMM02-SS-M2-B-24E-5-5.5	FTMM02-SS-M2-B-24E-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24E			
Sample ID					FTMM02-SS-M2-B-24E-3-3.5	FTMM02-SS-M2-B-24E-4-4.5	FTMM02-SS-M2-B-24E-5-5.5	FTMM02-SS-M2-B-24E-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	**0.591**	ND	ND
PCB (total)	0.2	1	0.2	-	ND	**0.591**	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24E			FTMM02-M2-B-24F
Sample ID					FTMM02-SS-M2-B-24E-7-7.5	FTMM02-SS-M2-B-24E-8-8.5	FTMM02-SS-M2-B-24E-9-9.5	FTMM02-SS-M2-B-24F-0-0.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24E			FTMM02-M2-B-24F
Sample ID					FTMM02-SS-M2-B-24E-7-7.5	FTMM02-SS-M2-B-24E-8-8.5	FTMM02-SS-M2-B-24E-9-9.5	FTMM02-SS-M2-B-24F-0-0.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24F			
Sample ID					FTMM02-SS-M2-B-24F-1-1.5	FTMM02-SS-M2-B-24F-2-2.5	FTMM02-SS-M2-B-24F-3-3.5	FTMM02-SS-M2-B-24F-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24F			
Sample ID					FTMM02-SS-M2-B-24F-1-1.5	FTMM02-SS-M2-B-24F-2-2.5	FTMM02-SS-M2-B-24F-3-3.5	FTMM02-SS-M2-B-24F-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24F			
Sample ID					FTMM02-SS-M2-B-24F-5-5.5	FTMM02-SS-M2-B-24F-6-6.5	FTMM02-SS-M2-B-24F-7-7.5	FTMM02-SS-M2-B-24F-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24F			
Sample ID					FTMM02-SS-M2-B-24F-5-5.5	FTMM02-SS-M2-B-24F-6-6.5	FTMM02-SS-M2-B-24F-7-7.5	FTMM02-SS-M2-B-24F-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	**4.126**
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**4.126**
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24F	FTMM02-M2-B-24G		
Sample ID					FTMM02-SS-M2-B-24F-9-9.5	FTMM02-SS-M2-B-24G-0-0.5	FTMM02-SS-M2-B-24G-1-1.5	FTMM02-SS-M2-B-24G-2-2.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24F	FTMM02-M2-B-24G		
Sample ID					FTMM02-SS-M2-B-24F-9-9.5	FTMM02-SS-M2-B-24G-0-0.5	FTMM02-SS-M2-B-24G-1-1.5	FTMM02-SS-M2-B-24G-2-2.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**1.756**	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**1.756**	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24G			
Sample ID					FTMM02-SS-M2-B-24G-3-3.5	FTMM02-SS-M2-B-24G-4-4.5	FTMM02-SS-M2-B-24G-5-5.5	FTMM02-SS-M2-B-24G-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24G			
Sample ID					FTMM02-SS-M2-B-24G-3-3.5	FTMM02-SS-M2-B-24G-4-4.5	FTMM02-SS-M2-B-24G-5-5.5	FTMM02-SS-M2-B-24G-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24G			FTMM02-M2-B-24H
Sample ID					FTMM02-SS-M2-B-24G-7-7.5	FTMM02-SS-M2-B-24G-8-8.5	FTMM02-SS-M2-B-24G-9-9.5	FTMM02-SS-M2-B-24H-0-0.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24G			FTMM02-M2-B-24H
Sample ID					FTMM02-SS-M2-B-24G-7-7.5	FTMM02-SS-M2-B-24G-8-8.5	FTMM02-SS-M2-B-24G-9-9.5	FTMM02-SS-M2-B-24H-0-0.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H			
Sample ID					FTMM02-SS-M2-B-24H-1-1.5	FTMM02-SS-M2-B-24H-2-2.5	FTMM02-SS-M2-B-24H-3-3.5	FTMM02-SS-M2-B-24H-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H			
Sample ID					FTMM02-SS-M2-B-24H-1-1.5	FTMM02-SS-M2-B-24H-2-2.5	FTMM02-SS-M2-B-24H-3-3.5	FTMM02-SS-M2-B-24H-4-4.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H			
Sample ID					FTMM02-SS-M2-B-24H-5-5.5	FTMM02-SS-M2-B-24H-6-6.5	FTMM02-SS-M2-B-24H-6-6.5-Dup	FTMM02-SS-M2-B-24H-7-7.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H			
Sample ID					FTMM02-SS-M2-B-24H-5-5.5	FTMM02-SS-M2-B-24H-6-6.5	FTMM02-SS-M2-B-24H-6-6.5-Dup	FTMM02-SS-M2-B-24H-7-7.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H			
Sample ID					FTMM02-SS-M2-B-24H-7-7.5-Dup	FTMM02-SS-M2-B-24H-8-8.5	FTMM02-SS-M2-B-24H-8-8.5-Dup	FTMM02-SS-M2-B-24H-9-9.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H			
Sample ID					FTMM02-SS-M2-B-24H-7-7.5-Dup	FTMM02-SS-M2-B-24H-8-8.5	FTMM02-SS-M2-B-24H-8-8.5-Dup	FTMM02-SS-M2-B-24H-9-9.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H	FTMM02-M2-B-25		
Sample ID					FTMM02-SS-M2-B-24H-9-9.5-Dup	FTMM02-SS-M2-B-25-0-0.5	FTMM02-SS-M2-B-25-1-1.5	FTMM02-SS-M2-B-25-2-2.5
Sample Date					2/7/2000	3/3/1999	3/3/1999	3/3/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H	FTMM02-M2-B-25		
Sample ID					FTMM02-SS-M2-B-24H-9-9.5-Dup	FTMM02-SS-M2-B-25-0-0.5	FTMM02-SS-M2-B-25-1-1.5	FTMM02-SS-M2-B-25-2-2.5
Sample Date					2/7/2000	3/3/1999	3/3/1999	3/3/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-25				
Sample ID					FTMM02-SS-M2-B-25-3-3.5	FTMM02-SS-M2-B-25-4-4.5	FTMM02-SS-M2-B-25-5-5.5	FTMM02-SS-M2-B-25-6-6.5	FTMM02-SS-M2-B-25-7-7.5
Sample Date					3/3/1999	3/3/1999	3/3/1999	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-25				
Sample ID					FTMM02-SS-M2-B-25-3-3.5	FTMM02-SS-M2-B-25-4-4.5	FTMM02-SS-M2-B-25-5-5.5	FTMM02-SS-M2-B-25-6-6.5	FTMM02-SS-M2-B-25-7-7.5
Sample Date					3/3/1999	3/3/1999	3/3/1999	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	**0.653**	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	**7.057**	ND	ND
Aroclor-1260	0.2	1	NLE	-	**0.69**	**0.039**	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**1.343**	**0.039**	**7.057**	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-25		FTMM02-M2-B-26		
Sample ID					FTMM02-SS-M2-B-25-8-8.5	FTMM02-SS-M2-B-25-9-9.5	FTMM02-SS-M2-B-26-0-0.5	FTMM02-SS-M2-B-26-1-1.5	FTMM02-SS-M2-B-26-2-2.5
Sample Date					1/24/2000	1/24/2000	3/3/1999	3/3/1999	3/3/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-25		FTMM02-M2-B-26		
Sample ID					FTMM02-SS-M2-B-25-8-8.5	FTMM02-SS-M2-B-25-9-9.5	FTMM02-SS-M2-B-26-0-0.5	FTMM02-SS-M2-B-26-1-1.5	FTMM02-SS-M2-B-26-2-2.5
Sample Date					1/24/2000	1/24/2000	3/3/1999	3/3/1999	3/3/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	**0.02**	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**0.02**	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-26				
Sample ID					FTMM02-SS-M2-B-26-3-3.5	FTMM02-SS-M2-B-26-4-4.5	FTMM02-SS-M2-B-26-5-5.5	FTMM02-SS-M2-B-26-6-6.5	FTMM02-SS-M2-B-26-7-7.5
Sample Date					3/3/1999	3/3/1999	3/3/1999	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-26				
Sample ID					FTMM02-SS-M2-B-26-3-3.5	FTMM02-SS-M2-B-26-4-4.5	FTMM02-SS-M2-B-26-5-5.5	FTMM02-SS-M2-B-26-6-6.5	FTMM02-SS-M2-B-26-7-7.5
Sample Date					3/3/1999	3/3/1999	3/3/1999	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	**0.32**	**1.132**	**4.231**	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**0.383**	**0.026**	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**0.703**	**1.158**	**4.231**	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-26		FTMM02-M2-B-27		
Sample ID					FTMM02-SS-M2-B-26-8-8.5	FTMM02-SS-M2-B-26-9-9.5	FTMM02-SS-M2-B-27-0-0.5	FTMM02-SS-M2-B-27-1-1.5	FTMM02-SS-M2-B-27-2-2.5
Sample Date					1/24/2000	1/24/2000	3/3/1999	3/3/1999	3/3/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-26		FTMM02-M2-B-27		
Sample ID					FTMM02-SS-M2-B-26-8-8.5	FTMM02-SS-M2-B-26-9-9.5	FTMM02-SS-M2-B-27-0-0.5	FTMM02-SS-M2-B-27-1-1.5	FTMM02-SS-M2-B-27-2-2.5
Sample Date					1/24/2000	1/24/2000	3/3/1999	3/3/1999	3/3/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27			FTMM02-M2-B-27A
Sample ID					FTMM02-SS-M2-B-27-3-3.5	FTMM02-SS-M2-B-27-4-4.5	FTMM02-SS-M2-B-27-5-5.5	FTMM02-SS-M2-B-27A-0-0.5
Sample Date					3/3/1999	3/3/1999	3/3/1999	11/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27			FTMM02-M2-B-27A
Sample ID					FTMM02-SS-M2-B-27-3-3.5	FTMM02-SS-M2-B-27-4-4.5	FTMM02-SS-M2-B-27-5-5.5	FTMM02-SS-M2-B-27A-0-0.5
Sample Date					3/3/1999	3/3/1999	3/3/1999	11/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**0.707**	ND	**0.033**	ND
PCB (total)	0.2	1	0.2	-	**0.707**	ND	**0.033**	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A			
Sample ID					FTMM02-SS-M2-B-27A-0-0.5-Dup	FTMM02-SS-M2-B-27A-1-1.5	FTMM02-SS-M2-B-27A-1-1.5-Dup	FTMM02-SS-M2-B-27A-2-2.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A			
Sample ID					FTMM02-SS-M2-B-27A-0-0.5-Dup	FTMM02-SS-M2-B-27A-1-1.5	FTMM02-SS-M2-B-27A-1-1.5-Dup	FTMM02-SS-M2-B-27A-2-2.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A			
Sample ID					FTMM02-SS-M2-B-27A-2-2.5-Dup	FTMM02-SS-M2-B-27A-3-3.5	FTMM02-SS-M2-B-27A-3-3.5-Dup	FTMM02-SS-M2-B-27A-4-4.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A			
Sample ID					FTMM02-SS-M2-B-27A-2-2.5-Dup	FTMM02-SS-M2-B-27A-3-3.5	FTMM02-SS-M2-B-27A-3-3.5-Dup	FTMM02-SS-M2-B-27A-4-4.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A			
Sample ID					FTMM02-SS-M2-B-27A-4-4.5-Dup	FTMM02-SS-M2-B-27A-5-5.5	FTMM02-SS-M2-B-27A-5-5.5-Dup	FTMM02-SS-M2-B-27A-6-6.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A			
Sample ID					FTMM02-SS-M2-B-27A-4-4.5-Dup	FTMM02-SS-M2-B-27A-5-5.5	FTMM02-SS-M2-B-27A-5-5.5-Dup	FTMM02-SS-M2-B-27A-6-6.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A	FTMM02-M2-B-27B		
Sample ID					FTMM02-SS-M2-B-27A-6-6.5-Dup	FTMM02-SS-M2-B-27B-0-0.5	FTMM02-SS-M2-B-27B-1-1.5	FTMM02-SS-M2-B-27B-2-2.5
Sample Date					11/1/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A	FTMM02-M2-B-27B		
Sample ID					FTMM02-SS-M2-B-27A-6-6.5-Dup	FTMM02-SS-M2-B-27B-0-0.5	FTMM02-SS-M2-B-27B-1-1.5	FTMM02-SS-M2-B-27B-2-2.5
Sample Date					11/1/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27B			
Sample ID					FTMM02-SS-M2-B-27B-3-3.5	FTMM02-SS-M2-B-27B-4-4.5	FTMM02-SS-M2-B-27B-5-5.5	FTMM02-SS-M2-B-27B-6-6.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27B			
Sample ID					FTMM02-SS-M2-B-27B-3-3.5	FTMM02-SS-M2-B-27B-4-4.5	FTMM02-SS-M2-B-27B-5-5.5	FTMM02-SS-M2-B-27B-6-6.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27B	FTMM02-M2-B-28			
Sample ID					FTMM02-SS-M2-B-27B-7-7.5	FTMM02-SS-M2-B-28-0-0.5	FTMM02-SS-M2-B-28-1-1.5	FTMM02-SS-M2-B-28-2-2.5	FTMM02-SS-M2-B-28-3-3.5
Sample Date					11/23/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-27B	FTMM02-M2-B-28			
Sample ID					FTMM02-SS-M2-B-27B-7-7.5	FTMM02-SS-M2-B-28-0-0.5	FTMM02-SS-M2-B-28-1-1.5	FTMM02-SS-M2-B-28-2-2.5	FTMM02-SS-M2-B-28-3-3.5
Sample Date					11/23/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	**0.224**	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	**0.02**	**0.196**	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**0.02**	**0.42**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-28		FTMM02-M2-B-29		
Sample ID					FTMM02-SS-M2-B-28-4-4.5	FTMM02-SS-M2-B-28-5-5.5	FTMM02-SS-M2-B-29-0-0.5	FTMM02-SS-M2-B-29-1-1.5	FTMM02-SS-M2-B-29-2-2.5
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-28		FTMM02-M2-B-29		
Sample ID					FTMM02-SS-M2-B-28-4-4.5	FTMM02-SS-M2-B-28-5-5.5	FTMM02-SS-M2-B-29-0-0.5	FTMM02-SS-M2-B-29-1-1.5	FTMM02-SS-M2-B-29-2-2.5
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	**0.62**	**0.654**	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**0.231**	**0.315**	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**0.851**	**0.969**	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-29			FTMM02-M2-B-3	
Sample ID					FTMM02-SS-M2-B-29-3-3.5	FTMM02-SS-M2-B-29-4-4.5	FTMM02-SS-M2-B-29-5-5.5	FTMM02-SS-M2-B-3-0-0.5	FTMM02-SS-M2-B-3-1-1.5
Sample Date					3/5/1999	3/5/1999	3/5/1999	2/17/1999	2/17/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-29			FTMM02-M2-B-3	
Sample ID					FTMM02-SS-M2-B-29-3-3.5	FTMM02-SS-M2-B-29-4-4.5	FTMM02-SS-M2-B-29-5-5.5	FTMM02-SS-M2-B-3-0-0.5	FTMM02-SS-M2-B-3-1-1.5
Sample Date					3/5/1999	3/5/1999	3/5/1999	2/17/1999	2/17/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	**0.216**	**0.967**	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	**0.116**	**0.171**	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**0.332**	**1.138**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3				
Sample ID					FTMM02-SS-M2-B-3-2-2.5	FTMM02-SS-M2-B-3-3-3.5	FTMM02-SS-M2-B-3-4-4.5	FTMM02-SS-M2-B-3-5-5.5	FTMM02-SS-M2-B-3-6-6.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	2/17/1999	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3				
Sample ID					FTMM02-SS-M2-B-3-2-2.5	FTMM02-SS-M2-B-3-3-3.5	FTMM02-SS-M2-B-3-4-4.5	FTMM02-SS-M2-B-3-5-5.5	FTMM02-SS-M2-B-3-6-6.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	2/17/1999	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	**1.935**	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	**0.133**	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**2.068**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3			FTMM02-M2-B-30	
Sample ID					FTMM02-SS-M2-B-3-7-7.5	FTMM02-SS-M2-B-3-8-8.5	FTMM02-SS-M2-B-3-9-9.5	FTMM02-SS-M2-B-30-0-0.5	FTMM02-SS-M2-B-30-0-0.5-Dup
Sample Date					1/24/2000	1/24/2000	1/24/2000	3/5/1999	3/5/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3			FTMM02-M2-B-30	
Sample ID					FTMM02-SS-M2-B-3-7-7.5	FTMM02-SS-M2-B-3-8-8.5	FTMM02-SS-M2-B-3-9-9.5	FTMM02-SS-M2-B-30-0-0.5	FTMM02-SS-M2-B-30-0-0.5-Dup
Sample Date					1/24/2000	1/24/2000	1/24/2000	3/5/1999	3/5/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-30			
Sample ID					FTMM02-SS-M2-B-30-1-1.5	FTMM02-SS-M2-B-30-1-1.5-Dup	FTMM02-SS-M2-B-30-2-2.5	FTMM02-SS-M2-B-30-2-2.5-Dup
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-30			
Sample ID					FTMM02-SS-M2-B-30-1-1.5	FTMM02-SS-M2-B-30-1-1.5-Dup	FTMM02-SS-M2-B-30-2-2.5	FTMM02-SS-M2-B-30-2-2.5-Dup
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	**0.049**	ND
PCB (total)	0.2	1	0.2	-	ND	ND	**0.049**	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-30			
Sample ID					FTMM02-SS-M2-B-30-3-3.5	FTMM02-SS-M2-B-30-3-3.5-Dup	FTMM02-SS-M2-B-30-4-4.5	FTMM02-SS-M2-B-30-4-4.5-Dup
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-30			
Sample ID					FTMM02-SS-M2-B-30-3-3.5	FTMM02-SS-M2-B-30-3-3.5-Dup	FTMM02-SS-M2-B-30-4-4.5	FTMM02-SS-M2-B-30-4-4.5-Dup
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-30		FTMM02-M2-B-31	FTMM02-M2-B-32
Sample ID					FTMM02-SS-M2-B-30-5-5.5	FTMM02-SS-M2-B-30-5-5.5-Dup	FTMM02-SS-M2-B-31-6.5-6.5	FTMM02-SS-M2-B-32-6.5-6.5
Sample Date					3/5/1999	3/5/1999	3/8/1999	3/8/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	ND	ND
Benzene	2,000	5,000	5	-	NA	NA	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	ND	ND
Chloroform	600	2,000	400	-	NA	NA	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	ND	ND
Methylene chloride	34,000	97,000	10	-	NA	NA	**2,600**	**2,700**
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-30		FTMM02-M2-B-31	FTMM02-M2-B-32
Sample ID					FTMM02-SS-M2-B-30-5-5.5	FTMM02-SS-M2-B-30-5-5.5-Dup	FTMM02-SS-M2-B-31-6.5-6.5	FTMM02-SS-M2-B-32-6.5-6.5
Sample Date					3/5/1999	3/5/1999	3/8/1999	3/8/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	NA	NA
Aroclor-1242	0.2	1	NLE	-	ND	ND	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	NA	NA
Aroclor-1260	0.2	1	NLE	-	ND	ND	NA	NA
PCB (total)	0.2	1	0.2	-	ND	ND	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-33	FTMM02-M2-B-34	FTMM02-M2-B-35
Sample ID					FTMM02-SS-M2-B-33-6.5-6.5	FTMM02-SS-M2-B-34-6.5-6.5	FTMM02-SS-M2-B-35-3-3
Sample Date					3/8/1999	3/9/1999	3/9/1999
Volatile Organic Compounds (µg/kg)							
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	**2,800**
Chloroform	600	2,000	400	-	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	**510 J**	**940**	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND
TIC VOCs (µg/kg)							
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)							
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA
TIC SVOCs (µg/kg)							
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-33	FTMM02-M2-B-34	FTMM02-M2-B-35
Sample ID					FTMM02-SS-M2-B-33-6.5-6.5	FTMM02-SS-M2-B-34-6.5-6.5	FTMM02-SS-M2-B-35-3-3
Sample Date					3/8/1999	3/9/1999	3/9/1999
Pesticides & PCBs (mg/kg)							
4,4'-DDD	3	13	4	-	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA
Pesticides & PCBs (mg/kg)							
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA
Inorganics (mg/kg)							
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-36	FTMM02-M2-B-37	FTMM02-M2-B-38	FTMM02-M2-B-39
Sample ID					FTMM02-SS-M2-B-36-3.5-3.5	FTMM02-SS-M2-B-37-6.5-6.5	FTMM02-SS-M2-B-38-6.5-6.5	FTMM02-SS-M2-B-39-6.5-6.5
Sample Date					3/9/1999	3/9/1999	3/10/1999	3/10/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	**720**	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	**850**	**820**	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-36	FTMM02-M2-B-37	FTMM02-M2-B-38	FTMM02-M2-B-39
Sample ID					FTMM02-SS-M2-B-36-3.5-3.5	FTMM02-SS-M2-B-37-6.5-6.5	FTMM02-SS-M2-B-38-6.5-6.5	FTMM02-SS-M2-B-39-6.5-6.5
Sample Date					3/9/1999	3/9/1999	3/10/1999	3/10/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3A	FTMM02-M2-B-3A			
Sample ID					FTMM02-SS-M2-B-3A-0-0.5	FTMM02-SS-M2-B-3A-1-1.5	FTMM02-SS-M2-B-3A-2-2.5	FTMM02-SS-M2-B-3A-3-3.5	FTMM02-SS-M2-B-3A-4-4.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3A	FTMM02-M2-B-3A			
Sample ID					FTMM02-SS-M2-B-3A-0-0.5	FTMM02-SS-M2-B-3A-1-1.5	FTMM02-SS-M2-B-3A-2-2.5	FTMM02-SS-M2-B-3A-3-3.5	FTMM02-SS-M2-B-3A-4-4.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3A	FTMM02-M2-B-3A
Sample ID					FTMM02-SS-M2-B-3A-5-5.5	FTMM02-SS-M2-B-3A-6-6.5
Sample Date					10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)						
Acetone	70,000,000	NLE	19,000	-	NA	NA
Benzene	2,000	5,000	5	-	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA
Chloroform	600	2,000	400	-	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA
TIC VOCs (µg/kg)						
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA
Semivolatile Organic Compounds (µg/kg)						
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA
TIC SVOCs (µg/kg)						
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3A	FTMM02-M2-B-3A
Sample ID					FTMM02-SS-M2-B-3A-5-5.5	FTMM02-SS-M2-B-3A-6-6.5
Sample Date					10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)						
4,4'-DDD	3	13	4	-	NA	NA
4,4'-DDE	2	9	18	-	NA	NA
4,4'-DDT	2	8	11	-	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA
Endrin	23	340	1	-	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA
Pesticides & PCBs (mg/kg)						
Aroclor-1016	0.2	1	NLE	-	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND
Inorganics (mg/kg)						
Aluminum	78,000	NLE	6,000	15,200	NA	NA
Antimony	31	450	6	ND	NA	NA
Arsenic	19	19	19	22.9	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA
Beryllium	16	140	0.7	2	NA	NA
Cadmium	78	78	2	ND	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA
Lead	400	800	90	19.5	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA
Mercury	23	65	0.1	ND	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA
Selenium	390	5,700	11	1.9	NA	NA
Silver	390	5,700	1	1.1	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA
Thallium	5	79	3	ND	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3A		FTMM02-M2-B-3B		
Sample ID					FTMM02-SS-M2-B-3A-7-7.5	FTMM02-SS-M2-B-3A-8-8.5	FTMM02-SS-M2-B-3B-0-0.5	FTMM02-SS-M2-B-3B-1-1.5	FTMM02-SS-M2-B-3B-2-2.5
Sample Date					10/27/1999	10/27/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3A		FTMM02-M2-B-3B		
Sample ID					FTMM02-SS-M2-B-3A-7-7.5	FTMM02-SS-M2-B-3A-8-8.5	FTMM02-SS-M2-B-3B-0-0.5	FTMM02-SS-M2-B-3B-1-1.5	FTMM02-SS-M2-B-3B-2-2.5
Sample Date					10/27/1999	10/27/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3B				
Sample ID					FTMM02-SS-M2-B-3B-3-3.5	FTMM02-SS-M2-B-3B-4-4.5	FTMM02-SS-M2-B-3B-5-5.5	FTMM02-SS-M2-B-3B-6-6.5	FTMM02-SS-M2-B-3B-7-7.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-3B				
Sample ID					FTMM02-SS-M2-B-3B-3-3.5	FTMM02-SS-M2-B-3B-4-4.5	FTMM02-SS-M2-B-3B-5-5.5	FTMM02-SS-M2-B-3B-6-6.5	FTMM02-SS-M2-B-3B-7-7.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-4				
Sample ID					FTMM02-SS-M2-B-4-0-0.5	FTMM02-SS-M2-B-4-1-1.5	FTMM02-SS-M2-B-4-2-2.5	FTMM02-SS-M2-B-4-3-3.5	FTMM02-SS-M2-B-4-4-4.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-4				
Sample ID					FTMM02-SS-M2-B-4-0-0.5	FTMM02-SS-M2-B-4-1-1.5	FTMM02-SS-M2-B-4-2-2.5	FTMM02-SS-M2-B-4-3-3.5	FTMM02-SS-M2-B-4-4-4.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	**4.219**	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	**0.279**	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	**4.498**	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-4				
Sample ID					FTMM02-SS-M2-B-4-5-5.5	FTMM02-SS-M2-B-4-6-6.5	FTMM02-SS-M2-B-4-7-7.5	FTMM02-SS-M2-B-4-8-8.5	FTMM02-SS-M2-B-4-9-9.5
Sample Date					2/17/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-4				
Sample ID					FTMM02-SS-M2-B-4-5-5.5	FTMM02-SS-M2-B-4-6-6.5	FTMM02-SS-M2-B-4-7-7.5	FTMM02-SS-M2-B-4-8-8.5	FTMM02-SS-M2-B-4-9-9.5
Sample Date					2/17/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	**65.402**	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	**10.431**	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	**75.833**	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-40	FTMM02-M2-B-41	FTMM02-M2-B-42	FTMM02-M2-B-43
Sample ID					FTMM02-SS-M2-B-40-6.5-6.5	FTMM02-SS-M2-B-41-6.5-6.5	FTMM02-SS-M2-B-42-6.5-6.5	FTMM02-SS-M2-B-43-6.5-6.5
Sample Date					3/10/1999	3/10/1999	3/10/1999	3/11/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	**1,000**	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-40	FTMM02-M2-B-41	FTMM02-M2-B-42	FTMM02-M2-B-43
Sample ID					FTMM02-SS-M2-B-40-6.5-6.5	FTMM02-SS-M2-B-41-6.5-6.5	FTMM02-SS-M2-B-42-6.5-6.5	FTMM02-SS-M2-B-43-6.5-6.5
Sample Date					3/10/1999	3/10/1999	3/10/1999	3/11/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-44	FTMM02-M2-B-45	FTMM02-M2-B-46	FTMM02-M2-B-47	FTMM02-M2-B-48
Sample ID					FTMM02-SS-M2-B-44-6.5-6.5	FTMM02-SS-M2-B-45-6.5-6.5	FTMM02-SS-M2-B-46-6-6	FTMM02-SS-M2-B-47-6-6	FTMM02-SS-M2-B-48-6-6
Sample Date					3/11/1999	3/16/1999	3/16/1999	3/16/1999	3/16/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	**1,400**	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-44	FTMM02-M2-B-45	FTMM02-M2-B-46	FTMM02-M2-B-47	FTMM02-M2-B-48
Sample ID					FTMM02-SS-M2-B-44-6.5-6.5	FTMM02-SS-M2-B-45-6.5-6.5	FTMM02-SS-M2-B-46-6-6	FTMM02-SS-M2-B-47-6-6	FTMM02-SS-M2-B-48-6-6
Sample Date					3/11/1999	3/16/1999	3/16/1999	3/16/1999	3/16/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-49	FTMM02-M2-B-5			
Sample ID					FTMM02-SS-M2-B-49-6-6	FTMM02-SS-M2-B-5-0-0.5	FTMM02-SS-M2-B-5-1-1.5	FTMM02-SS-M2-B-5-2-2.5	FTMM02-SS-M2-B-5-3-3.5
Sample Date					3/17/1999	2/19/1999	2/19/1999	2/19/1999	2/19/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	ND	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	ND	NA	NA	NA	NA
Chloroform	600	2,000	400	-	ND	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	ND	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	ND	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-49	FTMM02-M2-B-5			
Sample ID					FTMM02-SS-M2-B-49-6-6	FTMM02-SS-M2-B-5-0-0.5	FTMM02-SS-M2-B-5-1-1.5	FTMM02-SS-M2-B-5-2-2.5	FTMM02-SS-M2-B-5-3-3.5
Sample Date					3/17/1999	2/19/1999	2/19/1999	2/19/1999	2/19/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	ND	**0.117**	**0.05**	ND
Aroclor-1242	0.2	1	NLE	-	NA	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	NA	ND	**0.054**	**0.047**	ND
PCB (total)	0.2	1	0.2	-	NA	ND	**0.171**	**0.097**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-5		FTMM02-M2-B-50	FTMM02-M2-B-51	FTMM02-M2-B-52
Sample ID					FTMM02-SS-M2-B-5-4-4.5	FTMM02-SS-M2-B-5-5-5.5	FTMM02-SS-M2-B-50-6-6	FTMM02-SS-M2-B-51-6-6	FTMM02-SS-M2-B-52-6-6
Sample Date					2/19/1999	2/19/1999	3/17/1999	3/17/1999	3/17/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	ND	ND	ND
Benzene	2,000	5,000	5	-	NA	NA	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	ND	ND	ND
Chloroform	600	2,000	400	-	NA	NA	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	NA	NA	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-5		FTMM02-M2-B-50	FTMM02-M2-B-51	FTMM02-M2-B-52
Sample ID					FTMM02-SS-M2-B-5-4-4.5	FTMM02-SS-M2-B-5-5-5.5	FTMM02-SS-M2-B-50-6-6	FTMM02-SS-M2-B-51-6-6	FTMM02-SS-M2-B-52-6-6
Sample Date					2/19/1999	2/19/1999	3/17/1999	3/17/1999	3/17/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	ND	ND	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	**0.483**	**0.148**	NA	NA	NA
PCB (total)	0.2	1	0.2	-	**0.483**	**0.148**	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-53	FTMM02-M2-B-54	FTMM02-M2-B-55		FTMM02-M2-B-56
Sample ID					FTMM02-SS-M2-B-53-6-6	FTMM02-SS-M2-B-54-6-6	FTMM02-SS-M2-B-55-6-6	FTMM02-SS-M2-B-55-6-6-Dup	FTMM02-SS-M2-B-56-6-6
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/18/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	**1,500**
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND	**1,400**
Chloroform	600	2,000	400	-	ND	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	**3,800**	**800**	**1,700**	**560 J**	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-53	FTMM02-M2-B-54	FTMM02-M2-B-55		FTMM02-M2-B-56
Sample ID					FTMM02-SS-M2-B-53-6-6	FTMM02-SS-M2-B-54-6-6	FTMM02-SS-M2-B-55-6-6	FTMM02-SS-M2-B-55-6-6-Dup	FTMM02-SS-M2-B-56-6-6
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/18/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-57	FTMM02-M2-B-58	FTMM02-M2-B-59	FTMM02-M2-B-59A	FTMM02-M2-B-6
Sample ID					FTMM02-SS-M2-B-57-6-6	FTMM02-SS-M2-B-58-6-6	FTMM02-SS-M2-B-59-6-6	FTMM02-SS-M2-B-59A-6-6	FTMM02-SS-M2-B-6-0-0.5
Sample Date					3/18/1999	3/18/1999	3/18/1999	3/23/1999	2/19/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND	NA
Benzene	2,000	5,000	5	-	ND	ND	ND	ND	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	NA
Chlorobenzene	510,000	7,400,000	600	-	**430**	ND	**2,700**	**3,700**	NA
Chloroform	600	2,000	400	-	ND	ND	ND	ND	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND	NA
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND	NA
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-57	FTMM02-M2-B-58	FTMM02-M2-B-59	FTMM02-M2-B-59A	FTMM02-M2-B-6
Sample ID					FTMM02-SS-M2-B-57-6-6	FTMM02-SS-M2-B-58-6-6	FTMM02-SS-M2-B-59-6-6	FTMM02-SS-M2-B-59A-6-6	FTMM02-SS-M2-B-6-0-0.5
Sample Date					3/18/1999	3/18/1999	3/18/1999	3/23/1999	2/19/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	**0.081**
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	ND
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	**0.04**
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	**0.121**
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-6				
Sample ID					FTMM02-SS-M2-B-6-1-1.5	FTMM02-SS-M2-B-6-2-2.5	FTMM02-SS-M2-B-6-3-3.5	FTMM02-SS-M2-B-6-4-4.5	FTMM02-SS-M2-B-6-5-5.5
Sample Date					2/19/1999	2/19/1999	2/19/1999	2/19/1999	2/19/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-6				
Sample ID					FTMM02-SS-M2-B-6-1-1.5	FTMM02-SS-M2-B-6-2-2.5	FTMM02-SS-M2-B-6-3-3.5	FTMM02-SS-M2-B-6-4-4.5	FTMM02-SS-M2-B-6-5-5.5
Sample Date					2/19/1999	2/19/1999	2/19/1999	2/19/1999	2/19/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	**208.421**
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	**0.029**	ND	**3.18**
PCB (total)	0.2	1	0.2	-	ND	ND	**0.029**	ND	**211.601**
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-6				FTMM02-M2-B-60
Sample ID					FTMM02-SS-M2-B-6-6-6.5	FTMM02-SS-M2-B-6-7-7.5	FTMM02-SS-M2-B-6-8-8.5	FTMM02-SS-M2-B-6-9-9.5	FTMM02-SS-M2-B-60-6-6
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000	3/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	ND
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	ND
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	**1,000**
Chloroform	600	2,000	400	-	NA	NA	NA	NA	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	ND
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	ND
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	**710 J**
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-6				FTMM02-M2-B-60
Sample ID					FTMM02-SS-M2-B-6-6-6.5	FTMM02-SS-M2-B-6-7-7.5	FTMM02-SS-M2-B-6-8-8.5	FTMM02-SS-M2-B-6-9-9.5	FTMM02-SS-M2-B-60-6-6
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000	3/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	NA
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	NA
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	NA
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-61	FTMM02-M2-B-62	FTMM02-M2-B-63	FTMM02-M2-B-64	FTMM02-M2-B-64A
Sample ID					FTMM02-SS-M2-B-61-6-6	FTMM02-SS-M2-B-62-3.25-3.25	FTMM02-SS-M2-B-63-6-6	FTMM02-SS-M2-B-64-6-6	FTMM02-SS-M2-B-64A-7.5-7.5
Sample Date					3/23/1999	3/23/1999	3/23/1999	3/23/1999	11/3/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-61	FTMM02-M2-B-62	FTMM02-M2-B-63	FTMM02-M2-B-64	FTMM02-M2-B-64A
Sample ID					FTMM02-SS-M2-B-61-6-6	FTMM02-SS-M2-B-62-3.25-3.25	FTMM02-SS-M2-B-63-6-6	FTMM02-SS-M2-B-64-6-6	FTMM02-SS-M2-B-64A-7.5-7.5
Sample Date					3/23/1999	3/23/1999	3/23/1999	3/23/1999	11/3/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-64B	FTMM02-M2-B-64C	FTMM02-M2-B-64D	FTMM02-M2-B-64E	FTMM02-M2-B-64F
Sample ID					FTMM02-SS-M2-B-64B-7.5-7.5	FTMM02-SS-M2-B-64C-8-8	FTMM02-SS-M2-B-64D-8-8	FTMM02-SS-M2-B-64E-8-8	FTMM02-SS-M2-B-64F-4-4.5
Sample Date					11/4/1999	12/3/1999	12/6/1999	12/7/1999	1/10/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND	**1,800**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	**430**	**440**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND	**970**
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-64B	FTMM02-M2-B-64C	FTMM02-M2-B-64D	FTMM02-M2-B-64E	FTMM02-M2-B-64F
Sample ID					FTMM02-SS-M2-B-64B-7.5-7.5	FTMM02-SS-M2-B-64C-8-8	FTMM02-SS-M2-B-64D-8-8	FTMM02-SS-M2-B-64E-8-8	FTMM02-SS-M2-B-64F-4-4.5
Sample Date					11/4/1999	12/3/1999	12/6/1999	12/7/1999	1/10/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-64G	FTMM02-M2-B-64H	FTMM02-M2-B-65	FTMM02-M2-B-65A
Sample ID					FTMM02-SS-M2-B-64G-7-7.5	FTMM02-SS-M2-B-64H-5-5.5	FTMM02-SS-M2-B-65-6-6	FTMM02-SS-M2-B-65A-7.5-7.5
Sample Date					1/11/2000	1/12/2000	3/23/1999	11/3/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	**2,300**	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**490**	**2,500**	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**1,100**	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	**940**	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-64G	FTMM02-M2-B-64H	FTMM02-M2-B-65	FTMM02-M2-B-65A
Sample ID					FTMM02-SS-M2-B-64G-7-7.5	FTMM02-SS-M2-B-64H-5-5.5	FTMM02-SS-M2-B-65-6-6	FTMM02-SS-M2-B-65A-7.5-7.5
Sample Date					1/11/2000	1/12/2000	3/23/1999	11/3/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-65B	FTMM02-M2-B-65C	FTMM02-M2-B-65D	FTMM02-M2-B-65E	FTMM02-M2-B-65F
Sample ID					FTMM02-SS-M2-B-65B-7.5-7.5	FTMM02-SS-M2-B-65C-8-8	FTMM02-SS-M2-B-65D-8-8	FTMM02-SS-M2-B-65E-8-8	FTMM02-SS-M2-B-65F-4-4.5
Sample Date					11/4/1999	12/3/1999	12/6/1999	12/7/1999	1/10/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND	**2,800**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND	**5,100**
Chloroform	600	2,000	400	-	ND	ND	ND	**340**	**860**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	**990**	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-65B	FTMM02-M2-B-65C	FTMM02-M2-B-65D	FTMM02-M2-B-65E	FTMM02-M2-B-65F
Sample ID					FTMM02-SS-M2-B-65B-7.5-7.5	FTMM02-SS-M2-B-65C-8-8	FTMM02-SS-M2-B-65D-8-8	FTMM02-SS-M2-B-65E-8-8	FTMM02-SS-M2-B-65F-4-4.5
Sample Date					11/4/1999	12/3/1999	12/6/1999	12/7/1999	1/10/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-65G	FTMM02-M2-B-65H	FTMM02-M2-B-66	FTMM02-M2-B-66A
Sample ID					FTMM02-SS-M2-B-65G-7.5-8	FTMM02-SS-M2-B-65H-5-5.5	FTMM02-SS-M2-B-66-6.5-6.5	FTMM02-SS-M2-B-66A-7.5-7.5
Sample Date					1/11/2000	1/12/2000	3/30/1999	11/3/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	**3,900**	**4,100**	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	**430**	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**550**	**1,000**	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**1,800**	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	**810**	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-65G	FTMM02-M2-B-65H	FTMM02-M2-B-66	FTMM02-M2-B-66A
Sample ID					FTMM02-SS-M2-B-65G-7.5-8	FTMM02-SS-M2-B-65H-5-5.5	FTMM02-SS-M2-B-66-6.5-6.5	FTMM02-SS-M2-B-66A-7.5-7.5
Sample Date					1/11/2000	1/12/2000	3/30/1999	11/3/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-66B	FTMM02-M2-B-66C	FTMM02-M2-B-66D	FTMM02-M2-B-66E	FTMM02-M2-B-66F
Sample ID					FTMM02-SS-M2-B-66B-7.5-7.5	FTMM02-SS-M2-B-66C-8-8	FTMM02-SS-M2-B-66D-8-8	FTMM02-SS-M2-B-66E-8-8	FTMM02-SS-M2-B-66F-4-4.5
Sample Date					11/4/1999	12/3/1999	12/6/1999	12/7/1999	1/10/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND	**2,000**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND	**6,000**
Chloroform	600	2,000	400	-	ND	ND	ND	**330**	**510**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND	**1,000**
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-66B	FTMM02-M2-B-66C	FTMM02-M2-B-66D	FTMM02-M2-B-66E	FTMM02-M2-B-66F
Sample ID					FTMM02-SS-M2-B-66B-7.5-7.5	FTMM02-SS-M2-B-66C-8-8	FTMM02-SS-M2-B-66D-8-8	FTMM02-SS-M2-B-66E-8-8	FTMM02-SS-M2-B-66F-4-4.5
Sample Date					11/4/1999	12/3/1999	12/6/1999	12/7/1999	1/10/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-66G	FTMM02-M2-B-66H	FTMM02-M2-B-67	FTMM02-M2-B-67A
Sample ID					FTMM02-SS-M2-B-66G-6.7-7.2	FTMM02-SS-M2-B-66H-5-5.5	FTMM02-SS-M2-B-67-6.5-6.5	FTMM02-SS-M2-B-67A-7.5-7.5
Sample Date					1/11/2000	1/12/2000	3/30/1999	11/3/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	**1,700**	**3,200**	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	**510**	ND
Chloroform	600	2,000	400	-	**500**	**850**	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	**400 J**	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	**880 J**	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	**840**	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	**550**	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-66G	FTMM02-M2-B-66H	FTMM02-M2-B-67	FTMM02-M2-B-67A
Sample ID					FTMM02-SS-M2-B-66G-6.7-7.2	FTMM02-SS-M2-B-66H-5-5.5	FTMM02-SS-M2-B-67-6.5-6.5	FTMM02-SS-M2-B-67A-7.5-7.5
Sample Date					1/11/2000	1/12/2000	3/30/1999	11/3/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-67B	FTMM02-M2-B-67C	FTMM02-M2-B-67D	FTMM02-M2-B-67F	
Sample ID					FTMM02-SS-M2-B-67B-7.5-7.5	FTMM02-SS-M2-B-67C-8-8	FTMM02-SS-M2-B-67D-8-8	FTMM02-SS-M2-B-67F-2-2.5	FTMM02-SS-M2-B-67F-4-4.5
Sample Date					11/4/1999	12/3/1999	12/6/1999	1/10/2000	1/10/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	**2,400**	**1,700**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	**490**	**480**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	**1,200**	**990**
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-67B	FTMM02-M2-B-67C	FTMM02-M2-B-67D	FTMM02-M2-B-67F	
Sample ID					FTMM02-SS-M2-B-67B-7.5-7.5	FTMM02-SS-M2-B-67C-8-8	FTMM02-SS-M2-B-67D-8-8	FTMM02-SS-M2-B-67F-2-2.5	FTMM02-SS-M2-B-67F-4-4.5
Sample Date					11/4/1999	12/3/1999	12/6/1999	1/10/2000	1/10/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-67G	FTMM02-M2-B-67H	FTMM02-M2-B-68	FTMM02-M2-B-68A
Sample ID					FTMM02-SS-M2-B-67G-6.5-7	FTMM02-SS-M2-B-67H-5-5.5	FTMM02-SS-M2-B-68-4-4	FTMM02-SS-M2-B-68A-7.5-7.5
Sample Date					1/11/2000	1/12/2000	3/30/1999	11/3/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	**2,000**	**4,900**	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	**510**	**1,400**	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	**960**	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-67G	FTMM02-M2-B-67H	FTMM02-M2-B-68	FTMM02-M2-B-68A
Sample ID					FTMM02-SS-M2-B-67G-6.5-7	FTMM02-SS-M2-B-67H-5-5.5	FTMM02-SS-M2-B-68-4-4	FTMM02-SS-M2-B-68A-7.5-7.5
Sample Date					1/11/2000	1/12/2000	3/30/1999	11/3/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-68B	FTMM02-M2-B-68C	FTMM02-M2-B-68D	FTMM02-M2-B-68F	FTMM02-M2-B-68G
Sample ID					FTMM02-SS-M2-B-68B-7.5-7.5	FTMM02-SS-M2-B-68C-8-8	FTMM02-SS-M2-B-68D-8-8	FTMM02-SS-M2-B-68F-6.5-7	FTMM02-SS-M2-B-68G-5-5.5
Sample Date					11/4/1999	12/3/1999	12/7/1999	1/11/2000	1/12/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	**5,300**	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	**5,000**	ND
Chloroform	600	2,000	400	-	ND	ND	**550**	**1,200**	**860**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	**2,400**	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	**3,000**	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-68B	FTMM02-M2-B-68C	FTMM02-M2-B-68D	FTMM02-M2-B-68F	FTMM02-M2-B-68G
Sample ID					FTMM02-SS-M2-B-68B-7.5-7.5	FTMM02-SS-M2-B-68C-8-8	FTMM02-SS-M2-B-68D-8-8	FTMM02-SS-M2-B-68F-6.5-7	FTMM02-SS-M2-B-68G-5-5.5
Sample Date					11/4/1999	12/3/1999	12/7/1999	1/11/2000	1/12/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-69	FTMM02-M2-B-69A	FTMM02-M2-B-69B	FTMM02-M2-B-69F
Sample ID					FTMM02-SS-M2-B-69-4-4	FTMM02-SS-M2-B-69A-7.5-7.5	FTMM02-SS-M2-B-69B-7.5-7.5	FTMM02-SS-M2-B-69F-6.5-7
Sample Date					3/30/1999	11/3/1999	11/4/1999	1/11/2000
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	**3,000**
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	**530**
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	**1,200**
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	**1,100**
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-69	FTMM02-M2-B-69A	FTMM02-M2-B-69B	FTMM02-M2-B-69F
Sample ID					FTMM02-SS-M2-B-69-4-4	FTMM02-SS-M2-B-69A-7.5-7.5	FTMM02-SS-M2-B-69B-7.5-7.5	FTMM02-SS-M2-B-69F-6.5-7
Sample Date					3/30/1999	11/3/1999	11/4/1999	1/11/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-69G	FTMM02-M2-B-6A			
Sample ID					FTMM02-SS-M2-B-69G-5-5.5	FTMM02-SS-M2-B-6A-0-0.5	FTMM02-SS-M2-B-6A-1-1.5	FTMM02-SS-M2-B-6A-2-2.5	FTMM02-SS-M2-B-6A-3-3.5
Sample Date					1/12/2000	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	ND	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	ND	NA	NA	NA	NA
Chloroform	600	2,000	400	-	**870**	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	ND	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	ND	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	**350 J**	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-69G	FTMM02-M2-B-6A			
Sample ID					FTMM02-SS-M2-B-69G-5-5.5	FTMM02-SS-M2-B-6A-0-0.5	FTMM02-SS-M2-B-6A-1-1.5	FTMM02-SS-M2-B-6A-2-2.5	FTMM02-SS-M2-B-6A-3-3.5
Sample Date					1/12/2000	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	NA	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	NA	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	NA	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-6A				
Sample ID					FTMM02-SS-M2-B-6A-4-4.5	FTMM02-SS-M2-B-6A-5-5.5	FTMM02-SS-M2-B-6A-6-6.5	FTMM02-SS-M2-B-6A-7.5-8	FTMM02-SS-M2-B-6A-7-7.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-6A				
Sample ID					FTMM02-SS-M2-B-6A-4-4.5	FTMM02-SS-M2-B-6A-5-5.5	FTMM02-SS-M2-B-6A-6-6.5	FTMM02-SS-M2-B-6A-7.5-8	FTMM02-SS-M2-B-6A-7-7.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-6B				
Sample ID					FTMM02-SS-M2-B-6B-0-0.5	FTMM02-SS-M2-B-6B-1-1.5	FTMM02-SS-M2-B-6B-2-2.5	FTMM02-SS-M2-B-6B-3-3.5	FTMM02-SS-M2-B-6B-4-4.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-6B				
Sample ID					FTMM02-SS-M2-B-6B-0-0.5	FTMM02-SS-M2-B-6B-1-1.5	FTMM02-SS-M2-B-6B-2-2.5	FTMM02-SS-M2-B-6B-3-3.5	FTMM02-SS-M2-B-6B-4-4.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-6B			FTMM02-M2-B-7	
Sample ID					FTMM02-SS-M2-B-6B-5-5.5	FTMM02-SS-M2-B-6B-6-6.5	FTMM02-SS-M2-B-6B-7-7.5	FTMM02-SS-M2-B-7-0-0.5	FTMM02-SS-M2-B-7-1-1.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	2/19/1999	2/19/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-6B			FTMM02-M2-B-7	
Sample ID					FTMM02-SS-M2-B-6B-5-5.5	FTMM02-SS-M2-B-6B-6-6.5	FTMM02-SS-M2-B-6B-7-7.5	FTMM02-SS-M2-B-7-0-0.5	FTMM02-SS-M2-B-7-1-1.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	2/19/1999	2/19/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	**0.108**	**0.152**
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	**0.047**	**0.014**
PCB (total)	0.2	1	0.2	-	ND	ND	ND	**0.155**	**0.166**
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-7				FTMM02-M2-B-70
Sample ID					FTMM02-SS-M2-B-7-2-2.5	FTMM02-SS-M2-B-7-3-3.5	FTMM02-SS-M2-B-7-4-4.5	FTMM02-SS-M2-B-7-5-5.5	FTMM02-SS-M2-B-70-6.5-6.5
Sample Date					2/19/1999	2/19/1999	2/19/1999	2/19/1999	3/30/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	ND
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	ND
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	ND
Chloroform	600	2,000	400	-	NA	NA	NA	NA	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	ND
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	ND
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-7				FTMM02-M2-B-70
Sample ID					FTMM02-SS-M2-B-7-2-2.5	FTMM02-SS-M2-B-7-3-3.5	FTMM02-SS-M2-B-7-4-4.5	FTMM02-SS-M2-B-7-5-5.5	FTMM02-SS-M2-B-70-6.5-6.5
Sample Date					2/19/1999	2/19/1999	2/19/1999	2/19/1999	3/30/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	**0.115**	**0.153**	**0.046**	NA
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	NA
Aroclor-1260	0.2	1	NLE	-	**0.208**	**0.038**	**0.042**	**0.031**	NA
PCB (total)	0.2	1	0.2	-	**0.208**	**0.153**	**0.195**	**0.077**	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-71	FTMM02-M2-B-72	FTMM02-M2-B-73	FTMM02-M2-B-74	FTMM02-M2-B-75
Sample ID					FTMM02-SS-M2-B-71-6-6	FTMM02-SS-M2-B-72-5.5-5.5	FTMM02-SS-M2-B-73-5.5-5.5	FTMM02-SS-M2-B-74-6-6	FTMM02-SS-M2-B-75-6-6
Sample Date					4/6/1999	4/6/1999	4/6/1999	4/9/1999	4/9/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	**600**	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	**680 J**	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	**420**	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	**2,750**	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-71	FTMM02-M2-B-72	FTMM02-M2-B-73	FTMM02-M2-B-74	FTMM02-M2-B-75
Sample ID					FTMM02-SS-M2-B-71-6-6	FTMM02-SS-M2-B-72-5.5-5.5	FTMM02-SS-M2-B-73-5.5-5.5	FTMM02-SS-M2-B-74-6-6	FTMM02-SS-M2-B-75-6-6
Sample Date					4/6/1999	4/6/1999	4/6/1999	4/9/1999	4/9/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-76		FTMM02-M2-B-77	FTMM02-M2-B-78
Sample ID					FTMM02-SS-M2-B-76-4-4	FTMM02-SS-M2-B-76-4-4-Dup	FTMM02-SS-M2-B-77-6.5-6.5	FTMM02-SS-M2-B-78-6.5-6.5
Sample Date					4/9/1999	4/9/1999	4/13/1999	4/13/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-76		FTMM02-M2-B-77	FTMM02-M2-B-78
Sample ID					FTMM02-SS-M2-B-76-4-4	FTMM02-SS-M2-B-76-4-4-Dup	FTMM02-SS-M2-B-77-6.5-6.5	FTMM02-SS-M2-B-78-6.5-6.5
Sample Date					4/9/1999	4/9/1999	4/13/1999	4/13/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-79	FTMM02-M2-B-8			
Sample ID					FTMM02-SS-M2-B-79-3.5-3.5	FTMM02-SS-M2-B-8-0-0.5	FTMM02-SS-M2-B-8-1-1.5	FTMM02-SS-M2-B-8-2-2.5	FTMM02-SS-M2-B-8-3-3.5
Sample Date					4/13/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	ND	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	ND	NA	NA	NA	NA
Chloroform	600	2,000	400	-	ND	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	ND	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	ND	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-79	FTMM02-M2-B-8			
Sample ID					FTMM02-SS-M2-B-79-3.5-3.5	FTMM02-SS-M2-B-8-0-0.5	FTMM02-SS-M2-B-8-1-1.5	FTMM02-SS-M2-B-8-2-2.5	FTMM02-SS-M2-B-8-3-3.5
Sample Date					4/13/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	**0.047**	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	NA	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	NA	**0.048**	ND	ND	ND
PCB (total)	0.2	1	0.2	-	NA	**0.095**	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-8		FTMM02-M2-B-80	FTMM02-M2-B-81
Sample ID					FTMM02-SS-M2-B-8-4-4.5	FTMM02-SS-M2-B-8-5-5.5	FTMM02-SS-M2-B-80-4.5-4.5	FTMM02-SS-M2-B-81-5.5-5.5
Sample Date					2/22/1999	2/22/1999	4/13/1999	4/14/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	NA	NA	ND	ND
Benzene	2,000	5,000	5	-	NA	NA	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	ND	ND
Chloroform	600	2,000	400	-	NA	NA	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	ND	ND
Methylene chloride	34,000	97,000	10	-	NA	NA	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-8		FTMM02-M2-B-80	FTMM02-M2-B-81
Sample ID					FTMM02-SS-M2-B-8-4-4.5	FTMM02-SS-M2-B-8-5-5.5	FTMM02-SS-M2-B-80-4.5-4.5	FTMM02-SS-M2-B-81-5.5-5.5
Sample Date					2/22/1999	2/22/1999	4/13/1999	4/14/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	ND	ND	NA	NA
Aroclor-1242	0.2	1	NLE	-	ND	ND	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	NA	NA
Aroclor-1260	0.2	1	NLE	-	ND	**0.296**	NA	NA
PCB (total)	0.2	1	0.2	-	ND	**0.296**	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-82	FTMM02-M2-B-83	FTMM02-M2-B-84	FTMM02-M2-B-85
Sample ID					FTMM02-SS-M2-B-82-3.8-3.8	FTMM02-SS-M2-B-83-7.5-7.5	FTMM02-SS-M2-B-84-7.5-7.5	FTMM02-SS-M2-B-85-7.5-7.5
Sample Date					4/14/1999	4/14/1999	4/14/1999	4/14/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	**620**	**680**
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	**410 J**	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	**1,600**	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	**2,000**	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	**2,500**	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-82	FTMM02-M2-B-83	FTMM02-M2-B-84	FTMM02-M2-B-85
Sample ID					FTMM02-SS-M2-B-82-3.8-3.8	FTMM02-SS-M2-B-83-7.5-7.5	FTMM02-SS-M2-B-84-7.5-7.5	FTMM02-SS-M2-B-85-7.5-7.5
Sample Date					4/14/1999	4/14/1999	4/14/1999	4/14/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-86	FTMM02-M2-B-87	FTMM02-M2-B-88	FTMM02-M2-B-89	FTMM02-M2-B-9
Sample ID					FTMM02-SS-M2-B-86-7.5-7.5	FTMM02-SS-M2-B-87-5-5	FTMM02-SS-M2-B-88-3.8-3.8	FTMM02-SS-M2-B-89-6-6	FTMM02-SS-M2-B-9-0-0.5
Sample Date					4/14/1999	4/16/1999	4/16/1999	4/16/1999	2/22/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND	NA
Benzene	2,000	5,000	5	-	**470**	ND	ND	ND	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	NA
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND	NA
Chloroform	600	2,000	400	-	ND	ND	ND	ND	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND	NA
Methylene chloride	34,000	97,000	10	-	ND	**1,400**	ND	**1,500**	NA
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-86	FTMM02-M2-B-87	FTMM02-M2-B-88	FTMM02-M2-B-89	FTMM02-M2-B-9
Sample ID					FTMM02-SS-M2-B-86-7.5-7.5	FTMM02-SS-M2-B-87-5-5	FTMM02-SS-M2-B-88-3.8-3.8	FTMM02-SS-M2-B-89-6-6	FTMM02-SS-M2-B-9-0-0.5
Sample Date					4/14/1999	4/16/1999	4/16/1999	4/16/1999	2/22/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	**0.465**
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	ND
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	**0.231**
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	**0.696**
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-9				
Sample ID					FTMM02-SS-M2-B-9-1-1.5	FTMM02-SS-M2-B-9-2-2.5	FTMM02-SS-M2-B-9-3-3.5	FTMM02-SS-M2-B-9-4-4.5	FTMM02-SS-M2-B-9-5-5.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-9				
Sample ID					FTMM02-SS-M2-B-9-1-1.5	FTMM02-SS-M2-B-9-2-2.5	FTMM02-SS-M2-B-9-3-3.5	FTMM02-SS-M2-B-9-4-4.5	FTMM02-SS-M2-B-9-5-5.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-90	FTMM02-M2-B-91	FTMM02-M2-B-92	FTMM02-M2-B-93	FTMM02-M2-B-94
Sample ID					FTMM02-SS-M2-B-90-6-6	FTMM02-SS-M2-B-91-6-6	FTMM02-SS-M2-B-92-7.5-7.5	FTMM02-SS-M2-B-93-6-6	FTMM02-SS-M2-B-94-6-6
Sample Date					4/16/1999	4/16/1999	4/21/1999	4/21/1999	4/21/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	ND	ND	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	**1,400**	**1,500**	ND	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-90	FTMM02-M2-B-91	FTMM02-M2-B-92	FTMM02-M2-B-93	FTMM02-M2-B-94
Sample ID					FTMM02-SS-M2-B-90-6-6	FTMM02-SS-M2-B-91-6-6	FTMM02-SS-M2-B-92-7.5-7.5	FTMM02-SS-M2-B-93-6-6	FTMM02-SS-M2-B-94-6-6
Sample Date					4/16/1999	4/16/1999	4/21/1999	4/21/1999	4/21/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-95	FTMM02-M2-B-96	FTMM02-M2-B-97	FTMM02-M2-B-98
Sample ID					FTMM02-SS-M2-B-95-7.5-7.5	FTMM02-SS-M2-B-96-7.5-7.5	FTMM02-SS-M2-B-97-6.5-6.5	FTMM02-SS-M2-B-98-6.5-6.5
Sample Date					4/21/1999	4/21/1999	4/26/1999	4/26/1999
Volatile Organic Compounds (µg/kg)								
Acetone	70,000,000	NLE	19,000	-	ND	ND	ND	ND
Benzene	2,000	5,000	5	-	ND	ND	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	ND	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	ND	**2,500**	ND	ND
Chloroform	600	2,000	400	-	ND	ND	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	ND	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	ND	ND	ND
Methylene chloride	34,000	97,000	10	-	ND	ND	**1,300**	ND
Toluene	6,300,000	91,000,000	7,000	-	ND	ND	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-95	FTMM02-M2-B-96	FTMM02-M2-B-97	FTMM02-M2-B-98
Sample ID					FTMM02-SS-M2-B-95-7.5-7.5	FTMM02-SS-M2-B-96-7.5-7.5	FTMM02-SS-M2-B-97-6.5-6.5	FTMM02-SS-M2-B-98-6.5-6.5
Sample Date					4/21/1999	4/21/1999	4/26/1999	4/26/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	3	13	4	-	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1242	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	NA	NA	NA
Aroclor-1260	0.2	1	NLE	-	NA	NA	NA	NA
PCB (total)	0.2	1	0.2	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-99	FTMM02-M2-B-9A			
Sample ID					FTMM02-SS-M2-B-99-5.5-5.5	FTMM02-SS-M2-B-9A-0-0.5	FTMM02-SS-M2-B-9A-1-1.5	FTMM02-SS-M2-B-9A-2-2.5	FTMM02-SS-M2-B-9A-3-3.5
Sample Date					4/26/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	ND	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	ND	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	ND	NA	NA	NA	NA
Chloroform	600	2,000	400	-	ND	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	ND	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	ND	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	ND	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-99	FTMM02-M2-B-9A			
Sample ID					FTMM02-SS-M2-B-99-5.5-5.5	FTMM02-SS-M2-B-9A-0-0.5	FTMM02-SS-M2-B-9A-1-1.5	FTMM02-SS-M2-B-9A-2-2.5	FTMM02-SS-M2-B-9A-3-3.5
Sample Date					4/26/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	NA	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	NA	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	NA	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	NA	**0.262**	**0.241**	**0.087**	ND
PCB (total)	0.2	1	0.2	-	NA	**0.262**	**0.241**	**0.087**	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-9A				
Sample ID					FTMM02-SS-M2-B-9A-4-4.5	FTMM02-SS-M2-B-9A-5-5.5	FTMM02-SS-M2-B-9A-6-6.5	FTMM02-SS-M2-B-9A-7.5-8	FTMM02-SS-M2-B-9A-7-7.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-9A				
Sample ID					FTMM02-SS-M2-B-9A-4-4.5	FTMM02-SS-M2-B-9A-5-5.5	FTMM02-SS-M2-B-9A-6-6.5	FTMM02-SS-M2-B-9A-7.5-8	FTMM02-SS-M2-B-9A-7-7.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-9B				
Sample ID					FTMM02-SS-M2-B-9B-0-0.5	FTMM02-SS-M2-B-9B-1-1.5	FTMM02-SS-M2-B-9B-2-2.5	FTMM02-SS-M2-B-9B-3-3.5	FTMM02-SS-M2-B-9B-4-4.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	NA	NA
Benzene	2,000	5,000	5	-	NA	NA	NA	NA	NA
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	NA	NA
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	NA	NA
Chloroform	600	2,000	400	-	NA	NA	NA	NA	NA
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	NA	NA
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	NA	NA
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	NA	NA
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-9B				
Sample ID					FTMM02-SS-M2-B-9B-0-0.5	FTMM02-SS-M2-B-9B-1-1.5	FTMM02-SS-M2-B-9B-2-2.5	FTMM02-SS-M2-B-9B-3-3.5	FTMM02-SS-M2-B-9B-4-4.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	ND	ND
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	ND	ND
PCB (total)	0.2	1	0.2	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-9B			FTMM02-M2-B-H68	
Sample ID					FTMM02-SS-M2-B-9B-5-5.5	FTMM02-SS-M2-B-9B-6-6.5	FTMM02-SS-M2-B-9B-7-7.5	FTMM02-SS-M2-B-H68-1.5-2	FTMM02-SS-M2-B-H68-5-5.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	1/13/2000	1/13/2000
Volatile Organic Compounds (µg/kg)									
Acetone	70,000,000	NLE	19,000	-	NA	NA	NA	ND	ND
Benzene	2,000	5,000	5	-	NA	NA	NA	ND	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	NA	NA	NA	ND	ND
Chlorobenzene	510,000	7,400,000	600	-	NA	NA	NA	ND	ND
Chloroform	600	2,000	400	-	NA	NA	NA	ND	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	NA	NA	NA	ND	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	NA	NA	NA	ND	ND
Methylene chloride	34,000	97,000	10	-	NA	NA	NA	ND	ND
Toluene	6,300,000	91,000,000	7,000	-	NA	NA	NA	ND	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	NA	NA	NA	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA	NA	NA	NA	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA	NA	NA	NA	NA
Azobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	600	2,000	800	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	200	200	200	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA	NA	NA	NA	NA
Chrysene	62,000	230,000	80,000	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	200	200	800	-	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA	NA	NA	NA	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA	NA	NA	NA	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA	NA	NA	NA	NA
Naphthalene	6,000	17,000	25,000	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA	NA	NA	NA	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-9B			FTMM02-M2-B-H68	
Sample ID					FTMM02-SS-M2-B-9B-5-5.5	FTMM02-SS-M2-B-9B-6-6.5	FTMM02-SS-M2-B-9B-7-7.5	FTMM02-SS-M2-B-H68-1.5-2	FTMM02-SS-M2-B-H68-5-5.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	1/13/2000	1/13/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	3	13	4	-	NA	NA	NA	NA	NA
4,4'-DDE	2	9	18	-	NA	NA	NA	NA	NA
4,4'-DDT	2	8	11	-	NA	NA	NA	NA	NA
Alpha-Chlordane	NLE	1	NLE	-	NA	NA	NA	NA	NA
Dieldrin	0.04	0.2	0.003	-	NA	NA	NA	NA	NA
Endrin	23	340	1	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA	NA	NA	NA	NA
Gamma-Chlordane	0.2	1	NLE	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.2	1	NLE	-	ND	ND	ND	NA	NA
Aroclor-1242	0.2	1	NLE	-	ND	ND	ND	NA	NA
Aroclor-1248	0.2	1	NLE	-	NA	NA	NA	NA	NA
Aroclor-1254	0.2	1	NLE	-	ND	ND	ND	NA	NA
Aroclor-1260	0.2	1	NLE	-	ND	ND	ND	NA	NA
PCB (total)	0.2	1	0.2	-	ND	ND	ND	NA	NA
Inorganics (mg/kg)									
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	5	79	3	ND	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-H69
Sample ID					FTMM02-SS-M2-B-H69-5-5.5
Sample Date					1/13/2000
Volatile Organic Compounds (µg/kg)					
Acetone	70,000,000	NLE	19,000	-	ND
Benzene	2,000	5,000	5	-	ND
Carbon disulfide	7,800,000	110,000,000	6,000	-	ND
Chlorobenzene	510,000	7,400,000	600	-	ND
Chloroform	600	2,000	400	-	ND
Ethyl benzene	7,800,000	110,000,000	13,000	-	ND
Methyl ethyl ketone	3,100,000	44,000,000	900	-	ND
Methylene chloride	34,000	97,000	10	-	ND
Toluene	6,300,000	91,000,000	7,000	-	ND
Total Xylenes	12,000,000	170,000,000	19,000	-	ND
TIC VOCs (µg/kg)					
Total TIC, Volatile	NLE	NLE	NLE	-	NA
Semivolatile Organic Compounds (µg/kg)					
2-Methylnaphthalene	230,000	2,400,000	8,000	-	NA
Acenaphthene	3,400,000	37,000,000	110,000	-	NA
Acenaphthylene	NLE	300,000,000	NLE	-	NA
Anthracene	17,000,000	30,000,000	2,400,000	-	NA
Azobenzene	NLE	NLE	NLE	-	NA
Benzo(a)anthracene	600	2,000	800	-	NA
Benzo(a)pyrene	200	200	200	-	NA
Benzo(b)fluoranthene	600	2,000	2,000	-	NA
Benzo(ghi)perylene	380,000,000	30,000,000	NLE	-	NA
Benzo(k)fluoranthene	6,000	23,000	25,000	-	NA
Bis(2-Ethylhexyl)phthalate	35,000	140,000	1,200,000	-	NA
Chrysene	62,000	230,000	80,000	-	NA
Dibenz(a,h)anthracene	200	200	800	-	NA
Dibenzofuran	NLE	NLE	NLE	-	NA
Diethyl phthalate	49,000,000	550,000,000	88,000	-	NA
Di-n-butylphthalate	6,100,000	68,000,000	760,000	-	NA
Fluoranthene	2,300,000	24,000,000	1,300,000	-	NA
Fluorene	2,300,000	24,000,000	170,000	-	NA
Indeno(1,2,3-cd)pyrene	600	2,000	7,000	-	NA
Naphthalene	6,000	17,000	25,000	-	NA
Phenanthrene	NLE	300,000,000	NLE	-	NA
Pyrene	1,700,000	18,000,000	840,000	-	NA
TIC SVOCs (µg/kg)					
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential DCSRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM02-M2-B-H69
Sample ID					FTMM02-SS-M2-B-H69-5-5.5
Sample Date					1/13/2000
Pesticides & PCBs (mg/kg)					
4,4'-DDD	3	13	4	-	NA
4,4'-DDE	2	9	18	-	NA
4,4'-DDT	2	8	11	-	NA
Alpha-Chlordane	NLE	1	NLE	-	NA
Dieldrin	0.04	0.2	0.003	-	NA
Endrin	23	340	1	-	NA
Gamma-BHC/Lindane	0.4	2	0.002	-	NA
Gamma-Chlordane	0.2	1	NLE	-	NA
Pesticides & PCBs (mg/kg)					
Aroclor-1016	0.2	1	NLE	-	NA
Aroclor-1242	0.2	1	NLE	-	NA
Aroclor-1248	0.2	1	NLE	-	NA
Aroclor-1254	0.2	1	NLE	-	NA
Aroclor-1260	0.2	1	NLE	-	NA
PCB (total)	0.2	1	0.2	-	NA
Inorganics (mg/kg)					
Aluminum	78,000	NLE	6,000	15,200	NA
Antimony	31	450	6	ND	NA
Arsenic	19	19	19	22.9	NA
Barium	16,000	59,000	2,100	32.3	NA
Beryllium	16	140	0.7	2	NA
Cadmium	78	78	2	ND	NA
Calcium	NLE	NLE	NLE	921	NA
Chromium	NLE	NLE	NLE	269	NA
Cobalt	1,600	590	90	2.5	NA
Copper	3,100	45,000	11,000	8	NA
Iron	NLE	NLE	NLE	55,800	NA
Lead	400	800	90	19.5	NA
Magnesium	NLE	NLE	NLE	7,230	NA
Manganese	11,000	5,900	65	90.7	NA
Mercury	23	65	0.1	ND	NA
Nickel	1,600	23,000	48	8.4	NA
Potassium	NLE	NLE	NLE	15,400	NA
Selenium	390	5,700	11	1.9	NA
Silver	390	5,700	1	1.1	NA
Sodium	NLE	NLE	NLE	51.6	NA
Thallium	5	79	3	ND	NA
Vanadium	78	1,100	NLE	94.1	NA
Zinc	23,000	110,000	930	81.4	NA

TABLE 4.1
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO NJDEP STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Footnote:
1) All historical data collected prior to 2013 are reported as provided by others.
2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.
3) NLE = no limit established.
4) ND = not detected in any background sample, no background concentration available.
5) Bold chemical dectection

6) Chemical result qualifiers are assigned by the laboratory and is typically evaluated and modified (if necessary) by during data validation.

[blank] = detect, i.e. detected chemical result value.
B = Compound detected in the sample and its associated blank sample.
R = Rejected, data validation rejected the results.
U = non-detect, i.e. not detected equal to or above this value.
U-DL = Elevated sample detection limit due to difficult sample matrix.
U-ND = Analyte not detected in sample, but no detection or reporting limit provided.
J = estimated (detect or non-detect) value.
E (or ER) = Estimated result.
D = Results from dilution of sample.
J-DL = Elevated sample detection limit due to difficult sample matrix.
JN = Tentatively identified compound, estimated concentration.

7) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.
- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard. ####
  There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.
- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard. ###
  There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.
- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level ###
- Cell Style values represent a result that is above the Weston 1995 Background (Main Post). ###
  n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.
  Dash (-) = only background concentrations for metals are being used as comparison criteria.
- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct ###
- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard. ###

8) Criteria action level source document and web address.
- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's May 7, 2012 Remediation Standards
  http://www.nj.gov/dep/rules/rules/njac7_26d.pdf
- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's May 7, 2012 Remediation Standards.
  http://www.nj.gov/dep/rules/rules/njac7_26d.pdf
- The NJ Impact to GW Soil Screening Level criteria refers to the Development of Site Specific Impact to Ground Water Soil Remediation Standards - Nov 2013
  http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf
- The Weston 1995 Background (Main Post) refers to the FTMM reports.
  NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-100			FTMM02-B-101		FTMM02-B-102
Sample ID					FTMM02-SS-B-100-0-1.0	FTMM02-SS-B-100-2-2	FTMM02-SS-B-100-0-1.0_19990601	FTMM02-SS-B-101-0-1.0	FTMM02-SS-B-101-2-2	FTMM02-SS-B-102-0-1.0
Sample Date					4/26/1999	4/26/1999	6/1/1999	4/26/1999	4/26/1999	4/27/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 620	NA	NA	**2,200**	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 310	NA	NA	< 290	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 620	NA	NA	< 580	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 620	NA	NA	< 580	NA
Toluene	490,000	4,700,000	76	-	NA	< 310	NA	NA	< 290	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,500**	NA	NA	**9,800**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1200	< 1200	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1200	< 1200	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	**1,500**	< 1200	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	**780 J**	< 1200	NA	< 1200
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1200	< 1200	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	< 1100	NA	**9,500**	< 1200	NA	< 1200
Benzo(a)pyrene	15	290	4	-	< 1100	NA	**10,000 D**	< 1200	NA	< 1200
Benzo(b)fluoranthene	150	2,900	41	-	< 1100	NA	**13,000 D**	< 1200	NA	< 1200
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	NA	**2,700**	< 1200	NA	< 1200
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1100	NA	**11,000 D**	< 1200	NA	< 1200
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1100	NA	< 1200	**120 JB**	NA	< 1200
Chrysene	15,000	290,000	1,200	-	**170 J**	NA	**14,000 D**	**170 J**	NA	< 1200
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	**2,000**	< 1200	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1200	< 1200	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1200	< 1200	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	**170 JB**	NA	**260 JB**	< 1200	NA	< 1200
Fluoranthene	230,000	3,000,000	8,900	-	**120 J**	NA	**5,400**	**160 J**	NA	< 1200
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1200	< 1200	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	NA	**3,300**	< 1200	NA	< 1200
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1200	< 1200	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	< 1100	NA	**220 J**	< 1200	NA	< 1200
Pyrene	170,000	2,300,000	1,300	-	**130 J**	NA	**12,000 D**	**160 J**	NA	< 1200
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**16,180**	NA	**39,930**	**22,140**	NA	**5,490**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-100			FTMM02-B-101		FTMM02-B-102
Sample ID					FTMM02-SS-B-100-0-1.0	FTMM02-SS-B-100-2-2	FTMM02-SS-B-100-0-1.0_19990601	FTMM02-SS-B-101-0-1.0	FTMM02-SS-B-101-2-2	FTMM02-SS-B-102-0-1.0
Sample Date					4/26/1999	4/26/1999	6/1/1999	4/26/1999	4/26/1999	4/27/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	**0.186**	< 0.0137	NA	**0.482**
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	**0.119**	**0.03**	NA	**0.028**
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	**0.073**	< 0.0251	NA	< 0.0251
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	< 0.0113	< 0.0114	NA	**0.017**
Dieldrin	0.033	0.14	0.000069	-	NA	NA	< 0.0113	< 0.0114	NA	< 0.0114
Endrin	1.8	25	0.0092	-	NA	NA	< 0.0113	< 0.0114	NA	< 0.0114
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	< 0.0091	< 0.0091	NA	< 0.0091
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	< 0.0113	< 0.0114	NA	**0.025**
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	< 0.3628	< 0.3657	NA	< 0.3658
Aroclor-1248	0.24	1	0.006	-	NA	NA	< 0.1451	< 0.1463	NA	< 0.1463
Aroclor-1254	0.11	1	0.01	-	NA	NA	< 0.0907	< 0.0914	NA	< 0.0914
Aroclor-1260	0.24	1	0.027	-	NA	NA	< 0.0816	< 0.0823	NA	< 0.0823
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**7,660**	NA	NA	**10,800**	NA	**14,100**
Antimony	3.1	47	0.035	ND	**0.665**	NA	NA	**1.06**	NA	**0.495**
Arsenic	0.67	3	0.0015	22.9	**7.18**	NA	NA	**7.9**	NA	**9.09**
Barium	1,500	22,000	16	32.3	**27.9**	NA	NA	**50.1**	NA	**86.4**
Beryllium	16	230	1.9	2	**0.959**	NA	NA	**0.757**	NA	**1.21**
Cadmium	7	98	0.069	ND	< 0.112	NA	NA	**0.177**	NA	**0.687**
Calcium	NLE	NLE	NLE	921	**576**	NA	NA	**8,560**	NA	**3,540**
Chromium	12,000	180,000	4,000,000	269	**108**	NA	NA	**70.9**	NA	**110**
Cobalt	2.3	35	0.027	2.5	**0.742**	NA	NA	**2.45**	NA	**3.15**
Copper	310	4,700	2.8	8	**6.09**	NA	NA	**26**	NA	**20.8**
Iron	5,500	82,000	35	55,800	**27,700**	NA	NA	**24,400**	NA	**24,100**
Lead	400	800	NLE	19.5	**9.58**	NA	NA	**57.6**	NA	**77.2**
Magnesium	NLE	NLE	NLE	7,230	**3,170**	NA	NA	**4,290**	NA	**3,090**
Manganese	180	2,600	2.8	90.7	**14.7**	NA	NA	**267**	NA	**95.9**
Mercury	2.3	35	0.0033	ND	**0.041**	NA	NA	**0.228**	NA	**0.119**
Nickel	150	2,200	2.6	8.4	**3.41**	NA	NA	**9.28**	NA	**11.2**
Potassium	NLE	NLE	NLE	15,400	**7,170**	NA	NA	**5,130**	NA	**6,480**
Selenium	39	580	0.052	1.9	**1.16**	NA	NA	**1.05**	NA	**1.35**
Silver	39	580	0.08	1.1	< 0.672	NA	NA	< 0.718	NA	< 0.635
Sodium	NLE	NLE	NLE	51.6	**104**	NA	NA	**227**	NA	**432**
Thallium	0.078	1.2	0.0014	ND	< 0.672	NA	NA	< 0.718	NA	< 0.635
Vanadium	39	580	8.6	94.1	**41**	NA	NA	**43.4**	NA	**54.6**
Zinc	2,300	35,000	37	81.4	**51.4**	NA	NA	**130**	NA	**101**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-102	FTMM02-B-103				FTMM02-B-104
Sample ID					FTMM02-SS-B-102-2-2	FTMM02-SS-B-103-0-1.0	FTMM02-SS-B-103-0-1.0-Dup	FTMM02-SS-B-103-2-2	FTMM02-SS-B-103-2-2-Dup	FTMM02-SS-B-104-0-1.0
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 730	NA	NA	< 590	< 580	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 370	NA	NA	< 300	< 290	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 730	NA	NA	< 590	< 580	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 730	NA	NA	< 590	< 580	NA
Toluene	490,000	4,700,000	76	-	< 370	NA	NA	< 300	< 290	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	NA	ND	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	< 1200	NA	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	< 1200	NA	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	< 1200	NA	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	< 1200	NA	NA	< 1200
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	< 1200	NA	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	< 1200	**130 J**	NA	NA	< 1200
Benzo(a)pyrene	15	290	4	-	NA	< 1200	< 1200	NA	NA	< 1200
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1200	< 1200	NA	NA	< 1200
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1200	< 1200	NA	NA	< 1200
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1200	< 1200	NA	NA	< 1200
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**140 J**	< 1200	NA	NA	**230 J**
Chrysene	15,000	290,000	1,200	-	NA	< 1200	**200 J**	NA	NA	**140 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	< 1200	NA	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	< 1200	NA	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	< 1200	NA	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**310 J**	**260 J**	NA	NA	**300 J**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1200	**250 J**	NA	NA	< 1200
Fluorene	230,000	3,000,000	540	-	NA	< 1200	< 1200	NA	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1200	< 1200	NA	NA	< 1200
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	< 1200	NA	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	< 1200	**310 J**	NA	NA	< 1200
Pyrene	170,000	2,300,000	1,300	-	NA	< 1200	**280 J**	NA	NA	**130 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**6,040**	**2,820**	NA	NA	**8,760**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-102	FTMM02-B-103				FTMM02-B-104
Sample ID					FTMM02-SS-B-102-2-2	FTMM02-SS-B-103-0-1.0	FTMM02-SS-B-103-0-1.0-Dup	FTMM02-SS-B-103-2-2	FTMM02-SS-B-103-2-2-Dup	FTMM02-SS-B-104-0-1.0
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	< 0.0137	**0.018**	NA	NA	**0.021**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.014**	**0.022**	NA	NA	**0.027**
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.031**	**0.053**	NA	NA	< 0.0258
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0114	< 0.0114	NA	NA	< 0.0117
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0114	< 0.0114	NA	NA	< 0.0117
Endrin	1.8	25	0.0092	-	NA	< 0.0114	< 0.0114	NA	NA	< 0.0117
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0092	< 0.0091	NA	NA	< 0.0094
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0114	< 0.0114	NA	NA	< 0.0117
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3661	< 0.3647	NA	NA	< 0.3758
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1465	< 0.1459	NA	NA	< 0.1503
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0915	< 0.0912	NA	NA	< 0.094
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0824	< 0.0821	NA	NA	< 0.0846
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**14,200**	**18,600**	NA	NA	**14,800**
Antimony	3.1	47	0.035	ND	NA	**0.665**	**1.02**	NA	NA	**1.16**
Arsenic	0.67	3	0.0015	22.9	NA	**13.6**	**14.4**	NA	NA	**13**
Barium	1,500	22,000	16	32.3	NA	**46.6**	**51.1**	NA	NA	**39**
Beryllium	16	230	1.9	2	NA	**1.65**	**1.62**	NA	NA	**1.43**
Cadmium	7	98	0.069	ND	NA	< 0.122	< 0.127	NA	NA	< 0.104
Calcium	NLE	NLE	NLE	921	NA	**1,750**	**1,800**	NA	NA	**1,790**
Chromium	12,000	180,000	4,000,000	269	NA	**166**	**157**	NA	NA	**91.6**
Cobalt	2.3	35	0.027	2.5	NA	**1.85**	**2.07**	NA	NA	**2.49**
Copper	310	4,700	2.8	8	NA	**15.8**	**13.8**	NA	NA	**16.3**
Iron	5,500	82,000	35	55,800	NA	**47,000**	**47,700**	NA	NA	**40,700**
Lead	400	800	NLE	19.5	NA	**21.9**	**22**	NA	NA	**69.9**
Magnesium	NLE	NLE	NLE	7,230	NA	**5,810**	**4,870**	NA	NA	**2,640**
Manganese	180	2,600	2.8	90.7	NA	**68.2**	**78.5**	NA	NA	**84.6**
Mercury	2.3	35	0.0033	ND	NA	**0.052**	**0.048**	NA	NA	**8.091**
Nickel	150	2,200	2.6	8.4	NA	**9.29**	**10.4**	NA	NA	**9.15**
Potassium	NLE	NLE	NLE	15,400	NA	**12,600**	**10,500**	NA	NA	**4,900**
Selenium	39	580	0.052	1.9	NA	**0.936**	**1.08**	NA	NA	**0.763**
Silver	39	580	0.08	1.1	NA	< 0.73	< 0.762	NA	NA	< 0.622
Sodium	NLE	NLE	NLE	51.6	NA	**124**	**176**	NA	NA	**142**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.73	< 0.762	NA	NA	< 0.622
Vanadium	39	580	8.6	94.1	NA	**77.6**	**91.8**	NA	NA	**74.8**
Zinc	2,300	35,000	37	81.4	NA	**95.9**	**86.5**	NA	NA	**99.6**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-104	FTMM02-B-105		FTMM02-B-106		FTMM02-B-107
Sample ID					FTMM02-SS-B-104-2-2	FTMM02-SS-B-105-0-1.0	FTMM02-SS-B-105-2-2	FTMM02-SS-B-106-0-1.0	FTMM02-SS-B-106-2-2	FTMM02-SS-B-107-0-1.0
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 570	NA	< 590	NA	< 780	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 280	NA	< 300	NA	< 390	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 570	NA	< 590	NA	< 780	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 570	NA	< 590	NA	< 780	NA
Toluene	490,000	4,700,000	76	-	< 280	NA	< 300	NA	< 390	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	**120 J**	NA	< 1100
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1100	NA	< 1100	NA	< 1100
Chrysene	15,000	290,000	1,200	-	NA	< 1100	NA	**170 J**	NA	< 1100
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1100	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1100	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**240 J**	NA	**180 J**	NA	**370 J**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1100	NA	< 1100	NA	< 1100
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1100	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	< 1100	NA	< 1100	NA	< 1100
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**5,860**	NA	**13,620**	NA	**4,380**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-104	FTMM02-B-105		FTMM02-B-106		FTMM02-B-107
Sample ID					FTMM02-SS-B-104-2-2	FTMM02-SS-B-105-0-1.0	FTMM02-SS-B-105-2-2	FTMM02-SS-B-106-0-1.0	FTMM02-SS-B-106-2-2	FTMM02-SS-B-107-0-1.0
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.299**	NA	**0.941**	NA	< 0.014
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.295**	NA	**0.257**	NA	< 0.0093
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.036**	NA	**0.293**	NA	< 0.0256
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0113	NA	**0.048**	NA	< 0.0116
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0113	NA	< 0.0115	NA	< 0.0116
Endrin	1.8	25	0.0092	-	NA	< 0.0113	NA	< 0.0115	NA	< 0.0116
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.009	NA	< 0.0092	NA	< 0.0093
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0113	NA	**0.046**	NA	< 0.0116
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.361	NA	< 0.3683	NA	< 0.3721
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1444	NA	< 0.1473	NA	< 0.1488
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0902	NA	< 0.0921	NA	< 0.093
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0812	NA	< 0.0829	NA	< 0.0837
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**15,200**	NA	**13,100**	NA	**8,810**
Antimony	3.1	47	0.035	ND	NA	**0.692**	NA	**0.781**	NA	**0.903**
Arsenic	0.67	3	0.0015	22.9	NA	**10.5**	NA	**11.9**	NA	**7.07**
Barium	1,500	22,000	16	32.3	NA	**35**	NA	**18.3**	NA	**34.7**
Beryllium	16	230	1.9	2	NA	**1.15**	NA	**1.28**	NA	**0.708**
Cadmium	7	98	0.069	ND	NA	< 0.106	NA	< 0.129	NA	< 0.114
Calcium	NLE	NLE	NLE	921	NA	**1,180**	NA	**695**	NA	**4,140**
Chromium	12,000	180,000	4,000,000	269	NA	**96.2**	NA	**147**	NA	**59.7**
Cobalt	2.3	35	0.027	2.5	NA	**2.56**	NA	**0.955**	NA	**2.97**
Copper	310	4,700	2.8	8	NA	**9.13**	NA	**9.69**	NA	**35.9**
Iron	5,500	82,000	35	55,800	NA	**35,100**	NA	**36,700**	NA	**23,400**
Lead	400	800	NLE	19.5	NA	**49.7**	NA	**22.7**	NA	**52.5**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,480**	NA	**3,950**	NA	**3,060**
Manganese	180	2,600	2.8	90.7	NA	**37.4**	NA	**21.8**	NA	**83.9**
Mercury	2.3	35	0.0033	ND	NA	**5.465**	NA	**0.315**	NA	**0.071**
Nickel	150	2,200	2.6	8.4	NA	**8.63**	NA	**5.9**	NA	**12.2**
Potassium	NLE	NLE	NLE	15,400	NA	**8,100**	NA	**8,980**	NA	**4,270**
Selenium	39	580	0.052	1.9	NA	< 0.636	NA	**1.05**	NA	**0.704**
Silver	39	580	0.08	1.1	NA	**5.08**	NA	< 0.775	NA	< 0.684
Sodium	NLE	NLE	NLE	51.6	NA	**142**	NA	**125**	NA	**146**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.636	NA	< 0.775	NA	< 0.684
Vanadium	39	580	8.6	94.1	NA	**61.6**	NA	**57.8**	NA	**45.7**
Zinc	2,300	35,000	37	81.4	NA	**117**	NA	**58.6**	NA	**105**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-107	FTMM02-B-108		FTMM02-B-109		FTMM02-B-110
Sample ID					FTMM02-SS-B-107-2-2	FTMM02-SS-B-108-0-1.0	FTMM02-SS-B-108-2-2	FTMM02-SS-B-109-0-1.0	FTMM02-SS-B-109-2-2	FTMM02-SS-B-110-0-1.0
Sample Date					4/27/1999	5/4/1999	5/4/1999	5/4/1999	5/4/1999	5/4/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 700	NA	< 570	NA	< 620	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 350	NA	< 290	NA	< 310	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 700	NA	< 570	NA	< 620	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 700	NA	< 570	NA	< 620	NA
Toluene	490,000	4,700,000	76	-	< 350	NA	< 290	NA	< 310	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	**3,600**	NA	**4,100**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	NA	< 1100	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	NA	< 1100	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	NA	< 1100	NA	< 1200
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	NA	< 1100	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	< 1200	NA	< 1100	NA	< 1200
Benzo(a)pyrene	15	290	4	-	NA	< 1200	NA	< 1100	NA	< 1200
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1200	NA	< 1100	NA	< 1200
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	< 1200
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1200	NA	< 1100	NA	< 1200
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**220 J**	NA	**130 J**	NA	**180 J**
Chrysene	15,000	290,000	1,200	-	NA	< 1200	NA	**150 J**	NA	< 1200
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	NA	< 1100	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	NA	< 1100	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	NA	< 1100	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**400 J**	NA	**610 J**	NA	**300 J**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1200	NA	**140 J**	NA	< 1200
Fluorene	230,000	3,000,000	540	-	NA	< 1200	NA	< 1100	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1200	NA	< 1100	NA	< 1200
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	NA	< 1100	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	< 1200
Pyrene	170,000	2,300,000	1,300	-	NA	< 1200	NA	**160 J**	NA	< 1200
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**5,500**	NA	**5,160**	NA	**15,311**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-107	FTMM02-B-108		FTMM02-B-109		FTMM02-B-110
Sample ID					FTMM02-SS-B-107-2-2	FTMM02-SS-B-108-0-1.0	FTMM02-SS-B-108-2-2	FTMM02-SS-B-109-0-1.0	FTMM02-SS-B-109-2-2	FTMM02-SS-B-110-0-1.0
Sample Date					4/27/1999	5/4/1999	5/4/1999	5/4/1999	5/4/1999	5/4/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	< 0.0139	NA	< 0.0138	NA	< 0.0136
4,4'-DDE	1.6	6.8	0.054	-	NA	< 0.0093	NA	**0.011**	NA	< 0.0091
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0255	NA	< 0.0253	NA	< 0.0249
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0116	NA	< 0.0115	NA	< 0.0113
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0116	NA	< 0.0115	NA	< 0.0113
Endrin	1.8	25	0.0092	-	NA	< 0.0116	NA	< 0.0115	NA	< 0.0113
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0093	NA	< 0.0092	NA	< 0.0091
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0116	NA	< 0.0115	NA	< 0.0113
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3712	NA	< 0.3676	NA	< 0.3625
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1485	NA	< 0.1471	NA	< 0.145
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0928	NA	< 0.0919	NA	< 0.0906
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0835	NA	< 0.0827	NA	< 0.0816
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**13,500**	NA	**17,600**	NA	**5,290**
Antimony	3.1	47	0.035	ND	NA	**0.939**	NA	**0.952**	NA	**0.954**
Arsenic	0.67	3	0.0015	22.9	NA	**11.9**	NA	**12.4**	NA	**4.43**
Barium	1,500	22,000	16	32.3	NA	**41.9**	NA	**31.8**	NA	**16.4**
Beryllium	16	230	1.9	2	NA	**1.34**	NA	**1.42**	NA	**0.377**
Cadmium	7	98	0.069	ND	NA	< 0.123	NA	< 0.124	NA	**8.11**
Calcium	NLE	NLE	NLE	921	NA	**356**	NA	**1,200**	NA	**5,850**
Chromium	12,000	180,000	4,000,000	269	NA	**124**	NA	**148**	NA	**41.8**
Cobalt	2.3	35	0.027	2.5	NA	**1.36**	NA	**1.72**	NA	**1.62**
Copper	310	4,700	2.8	8	NA	**6.28**	NA	**8.48**	NA	**14.5**
Iron	5,500	82,000	35	55,800	NA	**38,700**	NA	**40,400**	NA	**13,500**
Lead	400	800	NLE	19.5	NA	**10.5**	NA	**17**	NA	**40.5**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,650**	NA	**4,590**	NA	**1,400**
Manganese	180	2,600	2.8	90.7	NA	**32.5**	NA	**53.6**	NA	**60**
Mercury	2.3	35	0.0033	ND	NA	**0.046**	NA	**0.04**	NA	**0.045**
Nickel	150	2,200	2.6	8.4	NA	**6.48**	NA	**7.49**	NA	**5.26**
Potassium	NLE	NLE	NLE	15,400	NA	**10,200**	NA	**11,800**	NA	**2,420**
Selenium	39	580	0.052	1.9	NA	**1.03**	NA	**1.04**	NA	< 0.663
Silver	39	580	0.08	1.1	NA	< 0.74	NA	< 0.742	NA	< 0.663
Sodium	NLE	NLE	NLE	51.6	NA	**112**	NA	**104**	NA	**105**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.74	NA	< 0.742	NA	< 0.663
Vanadium	39	580	8.6	94.1	NA	**53.2**	NA	**67.5**	NA	**24.7**
Zinc	2,300	35,000	37	81.4	NA	**56**	NA	**89.8**	NA	**47.7**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-110	FTMM02-B-111		FTMM02-B-112		FTMM02-B-113
Sample ID					FTMM02-SS-B-110-2-2	FTMM02-SS-B-111-0-1.0	FTMM02-SS-B-111-2-2	FTMM02-SS-B-112-0-1.0	FTMM02-SS-B-112-2-2	FTMM02-SS-B-113-0-1.0
Sample Date					5/4/1999	5/4/1999	5/4/1999	5/4/1999	5/4/1999	5/6/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 660	NA	< 550	NA	< 580	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 330	NA	< 270	NA	< 290	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 660	NA	< 550	NA	< 580	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 660	NA	< 550	NA	< 580	NA
Toluene	490,000	4,700,000	76	-	< 330	NA	< 270	NA	< 290	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**8,000**	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1200	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1200	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1200	NA	< 1200
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	< 1200	NA	< 1200
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**170 J**	NA	**130 J**	NA	**120 J**
Chrysene	15,000	290,000	1,200	-	NA	**120 J**	NA	**200 J**	NA	**220 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1200	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1200	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1200	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**650 J**	NA	< 1200	NA	**350 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1100	NA	< 1200	NA	**180 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1200	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1200	NA	< 1200
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1200	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	< 1200
Pyrene	170,000	2,300,000	1,300	-	NA	< 1100	NA	**130 J**	NA	**190 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**3,800**	NA	**10,950**	NA	**11,920**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-110	FTMM02-B-111		FTMM02-B-112		FTMM02-B-113
Sample ID					FTMM02-SS-B-110-2-2	FTMM02-SS-B-111-0-1.0	FTMM02-SS-B-111-2-2	FTMM02-SS-B-112-0-1.0	FTMM02-SS-B-112-2-2	FTMM02-SS-B-113-0-1.0
Sample Date					5/4/1999	5/4/1999	5/4/1999	5/4/1999	5/4/1999	5/6/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.029**	NA	**0.156**	NA	**0.02**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.02**	NA	**0.173**	NA	**0.079**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0247	NA	**0.121**	NA	**0.121**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0112	NA	< 0.0113	NA	**0.014**
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0112	NA	< 0.0113	NA	< 0.0114
Endrin	1.8	25	0.0092	-	NA	< 0.0112	NA	< 0.0113	NA	< 0.0114
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.009	NA	< 0.0091	NA	< 0.0091
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0112	NA	< 0.0113	NA	**0.014**
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3596	NA	< 0.3624	NA	< 0.3651
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1438	NA	< 0.145	NA	< 0.146
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0899	NA	< 0.0906	NA	< 0.0913
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0809	NA	< 0.0815	NA	< 0.0821
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**11,700**	NA	**8,390**	NA	**8,310**
Antimony	3.1	47	0.035	ND	NA	**0.765**	NA	**2.1**	NA	**1.11**
Arsenic	0.67	3	0.0015	22.9	NA	**7.79**	NA	**23.7**	NA	**8.96**
Barium	1,500	22,000	16	32.3	NA	**21**	NA	**200**	NA	**28.4**
Beryllium	16	230	1.9	2	NA	**0.892**	NA	**0.99**	NA	**0.702**
Cadmium	7	98	0.069	ND	NA	< 0.112	NA	**0.569**	NA	< 0.121
Calcium	NLE	NLE	NLE	921	NA	**1,420**	NA	**2,730**	NA	**1,350**
Chromium	12,000	180,000	4,000,000	269	NA	**79.8**	NA	**80.6**	NA	**64.9**
Cobalt	2.3	35	0.027	2.5	NA	**1.89**	NA	**2.56**	NA	**1.72**
Copper	310	4,700	2.8	8	NA	**7.48**	NA	**79.9**	NA	**19.5**
Iron	5,500	82,000	35	55,800	NA	**26,800**	NA	**24,900**	NA	**18,800**
Lead	400	800	NLE	19.5	NA	**16.4**	NA	**107**	NA	**48.1**
Magnesium	NLE	NLE	NLE	7,230	NA	**2,290**	NA	**2,180**	NA	**1,680**
Manganese	180	2,600	2.8	90.7	NA	**48.7**	NA	**551**	NA	**49.9**
Mercury	2.3	35	0.0033	ND	NA	**0.031**	NA	**0.267**	NA	**0.153**
Nickel	150	2,200	2.6	8.4	NA	**9.73**	NA	**8.21**	NA	**6.4**
Potassium	NLE	NLE	NLE	15,400	NA	**5,630**	NA	**5,900**	NA	**4,080**
Selenium	39	580	0.052	1.9	NA	< 0.674	NA	**1.66**	NA	**1.07**
Silver	39	580	0.08	1.1	NA	< 0.674	NA	< 0.621	NA	< 0.729
Sodium	NLE	NLE	NLE	51.6	NA	**97.1**	NA	**147**	NA	**89.1**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.674	NA	< 0.621	NA	< 0.729
Vanadium	39	580	8.6	94.1	NA	**77.5**	NA	**31.4**	NA	**33.4**
Zinc	2,300	35,000	37	81.4	NA	**47.6**	NA	**606**	NA	**95.5**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-113	FTMM02-B-114		FTMM02-B-115		
Sample ID					FTMM02-SS-B-113-2-2	FTMM02-SS-B-114-0-1.0	FTMM02-SS-B-114-2-2	FTMM02-SS-B-115-0-1.0	FTMM02-SS-B-115-0-1.0-Dup	FTMM02-SS-B-115-2-2
Sample Date					5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	**4,100**	NA	**4,400**	NA	NA	**4,200**
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 300	NA	< 300	NA	NA	< 290
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 600	NA	< 610	NA	NA	< 580
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 600	NA	< 610	NA	NA	< 580
Toluene	490,000	4,700,000	76	-	< 300	NA	< 300	NA	NA	< 290
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**2,800**	NA	**2,600**	NA	NA	**2,400**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	< 1000	NA
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	< 1000	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	< 1000	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	< 1000	NA
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	< 1000	NA
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	< 1100	< 1000	NA
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	< 1100	< 1000	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	< 1100	< 1000	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	< 1000	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	< 1100	< 1000	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1100	NA	**190 J**	**270 J**	NA
Chrysene	15,000	290,000	1,200	-	NA	**140 J**	NA	< 1100	< 1000	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1100	< 1000	NA
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	< 1000	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1100	< 1000	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**340 JB**	NA	**540 JB**	< 1000	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	**120 J**	NA	**170 J**	< 1000	NA
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	< 1000	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1100	< 1000	NA
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	< 1000	NA
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	**140 J**	< 1000	NA
Pyrene	170,000	2,300,000	1,300	-	NA	**150 J**	NA	**150 J**	< 1000	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**3,310**	NA	**12,570**	**3,300**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-113	FTMM02-B-114		FTMM02-B-115		
Sample ID					FTMM02-SS-B-113-2-2	FTMM02-SS-B-114-0-1.0	FTMM02-SS-B-114-2-2	FTMM02-SS-B-115-0-1.0	FTMM02-SS-B-115-0-1.0-Dup	FTMM02-SS-B-115-2-2
Sample Date					5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.027**	NA	< 0.013	**0.017**	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.044**	NA	**0.013**	**0.009**	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.028**	NA	**0.034**	**0.088**	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	**0.017**	NA	< 0.0108	< 0.0108	NA
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0111	NA	< 0.0108	< 0.0108	NA
Endrin	1.8	25	0.0092	-	NA	< 0.0111	NA	< 0.0108	< 0.0108	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0089	NA	< 0.0086	< 0.0087	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	**0.024**	NA	< 0.0108	< 0.0108	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3567	NA	< 0.3457	< 0.3471	NA
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1427	NA	< 0.1383	< 0.1388	NA
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0892	NA	< 0.0864	< 0.0868	NA
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0803	NA	< 0.0778	< 0.0781	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**9,570**	NA	**11,500**	**18,100**	NA
Antimony	3.1	47	0.035	ND	NA	**1.24**	NA	**0.72**	**0.847**	NA
Arsenic	0.67	3	0.0015	22.9	NA	**8.85**	NA	**10.7**	**11.5**	NA
Barium	1,500	22,000	16	32.3	NA	**26.3**	NA	**32.6**	**41.8**	NA
Beryllium	16	230	1.9	2	NA	**0.754**	NA	**0.762**	**1.26**	NA
Cadmium	7	98	0.069	ND	NA	**4.3**	NA	< 0.116	< 0.115	NA
Calcium	NLE	NLE	NLE	921	NA	**1,790**	NA	**3,650**	**4,270**	NA
Chromium	12,000	180,000	4,000,000	269	NA	**64.1**	NA	**79.7**	**153**	NA
Cobalt	2.3	35	0.027	2.5	NA	**2.74**	NA	**2.32**	**2.71**	NA
Copper	310	4,700	2.8	8	NA	**26.6**	NA	**15.1**	**21.1**	NA
Iron	5,500	82,000	35	55,800	NA	**26,000**	NA	**25,600**	**37,900**	NA
Lead	400	800	NLE	19.5	NA	**37.9**	NA	**30.4**	**33.6**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**2,140**	NA	**2,190**	**4,860**	NA
Manganese	180	2,600	2.8	90.7	NA	**69.7**	NA	**212**	**337**	NA
Mercury	2.3	35	0.0033	ND	NA	**0.073**	NA	**0.071**	**0.042**	NA
Nickel	150	2,200	2.6	8.4	NA	**7.32**	NA	**7.96**	**9.25**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**4,490**	NA	**4,130**	**9,780**	NA
Selenium	39	580	0.052	1.9	NA	**0.781**	NA	**0.808**	< 0.687	NA
Silver	39	580	0.08	1.1	NA	< 0.684	NA	< 0.698	< 0.687	NA
Sodium	NLE	NLE	NLE	51.6	NA	**178**	NA	**201**	**413**	NA
Thallium	0.078	1.2	0.0014	ND	NA	< 0.684	NA	< 0.698	< 0.687	NA
Vanadium	39	580	8.6	94.1	NA	**44.9**	NA	**43.3**	**69.9**	NA
Zinc	2,300	35,000	37	81.4	NA	**83.9**	NA	**87.2**	**109**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-115	FTMM02-B-116		FTMM02-B-117		FTMM02-B-118
Sample ID					FTMM02-SS-B-115-2-2-Dup	FTMM02-SS-B-116-0-1.0	FTMM02-SS-B-116-2-2	FTMM02-SS-B-117-0-1.0	FTMM02-SS-B-117-2-2	FTMM02-SS-B-118-0-1.0
Sample Date					5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	**4,600**	NA	**4,300**	NA	< 570	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 270	NA	< 270	NA	< 290	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 600	NA	< 530	NA	< 570	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 600	NA	< 530	NA	< 570	NA
Toluene	490,000	4,700,000	76	-	< 270	NA	< 270	NA	< 290	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	**2,500**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1200	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1200	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1200	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1200	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	**180 J**	NA	< 1200	NA	< 1100
Benzo(a)pyrene	15	290	4	-	NA	**170 J**	NA	< 1200	NA	< 1100
Benzo(b)fluoranthene	150	2,900	41	-	NA	**140 J**	NA	< 1200	NA	< 1100
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	**150 J**	NA	< 1200	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**140 J**	NA	< 1200	NA	< 1100
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**140 J**	NA	**180 J**	NA	**120 J**
Chrysene	15,000	290,000	1,200	-	NA	**300 J**	NA	< 1200	NA	< 1100
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1200	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1200	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1200	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**540 JB**	NA	**130 JB**	NA	**700 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**270 J**	NA	< 1200	NA	< 1100
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1200	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1200	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1200	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	**260 J**	NA	< 1200	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	**360 J**	NA	< 1200	NA	< 1100
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**1,400**	NA	**11,800**	NA	**12,570**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-115	FTMM02-B-116		FTMM02-B-117		FTMM02-B-118
Sample ID					FTMM02-SS-B-115-2-2-Dup	FTMM02-SS-B-116-0-1.0	FTMM02-SS-B-116-2-2	FTMM02-SS-B-117-0-1.0	FTMM02-SS-B-117-2-2	FTMM02-SS-B-118-0-1.0
Sample Date					5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999	5/6/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	< 0.0131	NA	< 0.0143	NA	< 0.0127
4,4'-DDE	1.6	6.8	0.054	-	NA	< 0.0087	NA	< 0.0095	NA	< 0.0084
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.024	NA	< 0.0262	NA	< 0.0232
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0109	NA	< 0.0119	NA	< 0.0106
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0109	NA	< 0.0119	NA	< 0.0106
Endrin	1.8	25	0.0092	-	NA	< 0.0109	NA	< 0.0119	NA	< 0.0106
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0087	NA	< 0.0095	NA	< 0.0084
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0109	NA	< 0.0119	NA	< 0.0106
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3487	NA	< 0.3805	NA	< 0.3378
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1395	NA	< 0.1522	NA	< 0.1351
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0872	NA	< 0.0951	NA	< 0.0845
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0785	NA	< 0.0856	NA	< 0.076
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**5,010**	NA	**16,200**	NA	**10,100**
Antimony	3.1	47	0.035	ND	NA	**1.28**	NA	**0.789**	NA	**0.538**
Arsenic	0.67	3	0.0015	22.9	NA	**4.37**	NA	**17.1**	NA	**5.19**
Barium	1,500	22,000	16	32.3	NA	**11.5**	NA	**42.5**	NA	**21.7**
Beryllium	16	230	1.9	2	NA	**0.327**	NA	**1.38**	NA	**0.383**
Cadmium	7	98	0.069	ND	NA	< 0.097	NA	< 0.122	NA	**0.802**
Calcium	NLE	NLE	NLE	921	NA	**852**	NA	**2,850**	NA	**275**
Chromium	12,000	180,000	4,000,000	269	NA	**58.3**	NA	**143**	NA	**44**
Cobalt	2.3	35	0.027	2.5	NA	**1.15**	NA	**2.46**	NA	**1.39**
Copper	310	4,700	2.8	8	NA	**15.2**	NA	**29**	NA	**7.12**
Iron	5,500	82,000	35	55,800	NA	**14,000**	NA	**40,600**	NA	**15,400**
Lead	400	800	NLE	19.5	NA	**16.1**	NA	**42.1**	NA	**8.74**
Magnesium	NLE	NLE	NLE	7,230	NA	**799**	NA	**4,660**	NA	**899**
Manganese	180	2,600	2.8	90.7	NA	**41.4**	NA	**153**	NA	**54.7**
Mercury	2.3	35	0.0033	ND	NA	< 0.024	NA	**0.08**	NA	**0.035**
Nickel	150	2,200	2.6	8.4	NA	**3.01**	NA	**69.4**	NA	**4.46**
Potassium	NLE	NLE	NLE	15,400	NA	**1,880**	NA	**11,300**	NA	**2,320**
Selenium	39	580	0.052	1.9	NA	< 0.582	NA	**0.897**	NA	< 0.599
Silver	39	580	0.08	1.1	NA	< 0.582	NA	< 0.73	NA	< 0.599
Sodium	NLE	NLE	NLE	51.6	NA	**218**	NA	**215**	NA	**58.2**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.582	NA	< 0.73	NA	< 0.599
Vanadium	39	580	8.6	94.1	NA	**43.1**	NA	**59.8**	NA	**35.6**
Zinc	2,300	35,000	37	81.4	NA	**52.4**	NA	**102**	NA	**35.2**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-118	FTMM02-B-119		FTMM02-B-120		FTMM02-B-121
Sample ID					FTMM02-SS-B-118-2-2	FTMM02-SS-B-119-0-1.0	FTMM02-SS-B-119-2-2	FTMM02-SS-B-120-0-1.0	FTMM02-SS-B-120-2-2	FTMM02-SS-B-121-0-1.0
Sample Date					5/6/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	**4,700**	NA	**3,700**	NA	**4,300**	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 300	NA	< 250	NA	< 290	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 610	NA	< 510	NA	< 570	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 610	NA	< 510	NA	< 570	NA
Toluene	490,000	4,700,000	76	-	< 300	NA	< 250	NA	< 290	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**2,300**	NA	**1,700**	NA	**2,200**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	< 1100	NA	**140 J**
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	< 1100	NA	**110 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	< 1100	NA	< 1100
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**320 J**	NA	< 1100	NA	**120 J**
Chrysene	15,000	290,000	1,200	-	NA	< 1100	NA	**180 J**	NA	**240 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1100	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1100	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**870 JB**	NA	**220 JB**	NA	**670 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**130 J**	NA	**150 J**	NA	**250 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1100	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	**200 J**
Pyrene	170,000	2,300,000	1,300	-	NA	**140 J**	NA	**210 J**	NA	**240 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**15,370**	NA	**4,350**	NA	**15,330**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-118	FTMM02-B-119		FTMM02-B-120		FTMM02-B-121
Sample ID					FTMM02-SS-B-118-2-2	FTMM02-SS-B-119-0-1.0	FTMM02-SS-B-119-2-2	FTMM02-SS-B-120-0-1.0	FTMM02-SS-B-120-2-2	FTMM02-SS-B-121-0-1.0
Sample Date					5/6/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.172**	NA	**0.022**	NA	**0.014**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.34**	NA	**0.019**	NA	**0.023**
4,4'-DDT	1.9	8.6	0.077	-	NA	**1.836**	NA	**0.124**	NA	**0.057**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0112	NA	< 0.0116	NA	< 0.0116
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0112	NA	< 0.0116	NA	< 0.0116
Endrin	1.8	25	0.0092	-	NA	< 0.0112	NA	< 0.0116	NA	< 0.0116
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0089	NA	< 0.0092	NA	< 0.0093
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0112	NA	**0.012**	NA	< 0.0116
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3572	NA	< 0.0185	NA	< 0.3726
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1429	NA	< 0.0074	NA	< 0.149
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0893	NA	< 0.0046	NA	< 0.0932
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0804	NA	**1.764**	NA	< 0.0838
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**18,400**	NA	**13,200**	NA	**17,700**
Antimony	3.1	47	0.035	ND	NA	**1.25**	NA	**0.913**	NA	**0.942**
Arsenic	0.67	3	0.0015	22.9	NA	**17.7**	NA	**15.5**	NA	**12.4**
Barium	1,500	22,000	16	32.3	NA	**19.7**	NA	**29.8**	NA	**37.4**
Beryllium	16	230	1.9	2	NA	**1.52**	NA	**1.19**	NA	**1.13**
Cadmium	7	98	0.069	ND	NA	< 0.117	NA	< 0.118	NA	< 0.119
Calcium	NLE	NLE	NLE	921	NA	**868**	NA	**1,640**	NA	**1,170**
Chromium	12,000	180,000	4,000,000	269	NA	**135**	NA	**128**	NA	**111**
Cobalt	2.3	35	0.027	2.5	NA	**2.02**	NA	**1.38**	NA	**2.39**
Copper	310	4,700	2.8	8	NA	**12.9**	NA	**21.8**	NA	**20**
Iron	5,500	82,000	35	55,800	NA	**45,400**	NA	**33,200**	NA	**33,300**
Lead	400	800	NLE	19.5	NA	**30.4**	NA	**30.1**	NA	**32**
Magnesium	NLE	NLE	NLE	7,230	NA	**4,540**	NA	**3,770**	NA	**3,310**
Manganese	180	2,600	2.8	90.7	NA	**52.9**	NA	**57**	NA	**51.8**
Mercury	2.3	35	0.0033	ND	NA	**0.043**	NA	**0.063**	NA	**0.269**
Nickel	150	2,200	2.6	8.4	NA	**8.97**	NA	**6.78**	NA	**7.78**
Potassium	NLE	NLE	NLE	15,400	NA	**11,600**	NA	**9,600**	NA	**8,270**
Selenium	39	580	0.052	1.9	NA	**1.34**	NA	**0.817**	NA	**0.913**
Silver	39	580	0.08	1.1	NA	< 0.699	NA	< 0.709	NA	< 0.716
Sodium	NLE	NLE	NLE	51.6	NA	**132**	NA	**247**	NA	**203**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.699	NA	< 0.709	NA	< 0.716
Vanadium	39	580	8.6	94.1	NA	**63.1**	NA	**51.1**	NA	**65.2**
Zinc	2,300	35,000	37	81.4	NA	**70.5**	NA	**71.7**	NA	**62.3**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-121	FTMM02-B-122		FTMM02-B-123		FTMM02-B-124
Sample ID					FTMM02-SS-B-121-2-2	FTMM02-SS-B-122-0-1.0	FTMM02-SS-B-122-2-2	FTMM02-SS-B-123-0-1.0	FTMM02-SS-B-123-2-2	FTMM02-SS-B-124-0-1.0
Sample Date					5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 590	NA	< 610	NA	< 590	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 300	NA	< 310	NA	< 290	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 590	NA	< 610	NA	< 590	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 590	NA	< 610	NA	< 590	NA
Toluene	490,000	4,700,000	76	-	< 300	NA	< 310	NA	< 290	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**5,500**	NA	**4,600**	NA	**4,400**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1200	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1200	NA	**160 J**
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1200	NA	**230 J**
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	< 1200	NA	**720 J**
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	< 1200	NA	**540 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	< 1200	NA	**440 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	**440 J**
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	< 1200	NA	**440 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1100	NA	< 1200	NA	< 1200
Chrysene	15,000	290,000	1,200	-	NA	< 1100	NA	< 1200	NA	**1,100 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1200	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1200	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1200	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**170 JB**	NA	**250 JB**	NA	< 1200
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1100	NA	< 1200	NA	**1,600**
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1200	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1200	NA	**340 J**
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1200	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	**1,300**
Pyrene	170,000	2,300,000	1,300	-	NA	< 1100	NA	< 1200	NA	**1,800**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**11,800**	NA	**4,110**	NA	ND

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-121	FTMM02-B-122		FTMM02-B-123		FTMM02-B-124
Sample ID					FTMM02-SS-B-121-2-2	FTMM02-SS-B-122-0-1.0	FTMM02-SS-B-122-2-2	FTMM02-SS-B-123-0-1.0	FTMM02-SS-B-123-2-2	FTMM02-SS-B-124-0-1.0
Sample Date					5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	< 0.0133	NA	< 0.0139	NA	< 0.0148
4,4'-DDE	1.6	6.8	0.054	-	NA	< 0.0089	NA	**0.013**	NA	**0.012**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0245	NA	< 0.0256	NA	< 0.0272
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	< 0.0116	NA	< 0.0124
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0111	NA	< 0.0116	NA	< 0.0124
Endrin	1.8	25	0.0092	-	NA	< 0.0111	NA	< 0.0116	NA	< 0.0124
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0089	NA	< 0.0093	NA	< 0.0099
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	< 0.0116	NA	< 0.0124
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3557	NA	< 0.3719	NA	< 0.0989
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1423	NA	< 0.1488	NA	< 0.0396
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0889	NA	< 0.093	NA	< 0.0247
Aroclor-1260	0.24	1	0.027	-	NA	< 0.08	NA	< 0.0837	NA	< 0.0222
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**12,000**	NA	**17,200**	NA	**18,600**
Antimony	3.1	47	0.035	ND	NA	**0.57**	NA	**1.12**	NA	**0.932**
Arsenic	0.67	3	0.0015	22.9	NA	**10.1**	NA	**13.2**	NA	**15.6**
Barium	1,500	22,000	16	32.3	NA	**20.4**	NA	**38.7**	NA	**49.9**
Beryllium	16	230	1.9	2	NA	**1.18**	NA	**1.32**	NA	**1.68**
Cadmium	7	98	0.069	ND	NA	< 0.102	NA	< 0.099	NA	**0.885**
Calcium	NLE	NLE	NLE	921	NA	**705**	NA	**3,480**	NA	**2,810**
Chromium	12,000	180,000	4,000,000	269	NA	**99**	NA	**157**	NA	**136**
Cobalt	2.3	35	0.027	2.5	NA	**1.86**	NA	**2.88**	NA	**3.64**
Copper	310	4,700	2.8	8	NA	**9.03**	NA	**25.5**	NA	**21.4**
Iron	5,500	82,000	35	55,800	NA	**34,500**	NA	**40,400**	NA	**48,900**
Lead	400	800	NLE	19.5	NA	**9.95**	NA	**36.5**	NA	**43.3**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,180**	NA	**4,520**	NA	**4,670**
Manganese	180	2,600	2.8	90.7	NA	**37.5**	NA	**298**	NA	**147**
Mercury	2.3	35	0.0033	ND	NA	**0.04**	NA	**0.054**	NA	**0.099**
Nickel	150	2,200	2.6	8.4	NA	**6.58**	NA	**9.28**	NA	**11.2**
Potassium	NLE	NLE	NLE	15,400	NA	**9,010**	NA	**10,100**	NA	**12,700**
Selenium	39	580	0.052	1.9	NA	< 0.61	NA	**1.08**	NA	**1.02**
Silver	39	580	0.08	1.1	NA	< 0.61	NA	< 0.593	NA	< 0.646
Sodium	NLE	NLE	NLE	51.6	NA	**131**	NA	**222**	NA	**199**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.61	NA	< 0.593	NA	< 0.646
Vanadium	39	580	8.6	94.1	NA	**50.7**	NA	**65.6**	NA	**63.1**
Zinc	2,300	35,000	37	81.4	NA	**54.1**	NA	**95.6**	NA	**125**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-124	FTMM02-B-125		FTMM02-B-126		FTMM02-B-127
Sample ID					FTMM02-SS-B-124-2-2	FTMM02-SS-B-125-0-1.0	FTMM02-SS-B-125-2-2	FTMM02-SS-B-126-0-1.0	FTMM02-SS-B-126-2-2	FTMM02-SS-B-127-0-1.0
Sample Date					5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 540	NA	< 570	NA	< 640	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 270	NA	< 280	NA	< 320	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 540	NA	< 570	NA	< 640	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 540	NA	< 570	NA	< 640	NA
Toluene	490,000	4,700,000	76	-	< 270	NA	< 280	NA	< 320	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**2,200**	NA	**2,200**	NA	**4,200**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1300	NA	< 1100	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1300	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1300	NA	< 1100	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1300	NA	< 1100	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1300	NA	< 1100	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	**150 J**	NA	< 1100	NA	< 1100
Benzo(a)pyrene	15	290	4	-	NA	**160 J**	NA	< 1100	NA	< 1100
Benzo(b)fluoranthene	150	2,900	41	-	NA	**140 J**	NA	< 1100	NA	< 1100
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1300	NA	< 1100	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**130 J**	NA	< 1100	NA	< 1100
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**390 J**	NA	< 1100	NA	< 1100
Chrysene	15,000	290,000	1,200	-	NA	**250 J**	NA	< 1100	NA	< 1100
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1300	NA	< 1100	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1300	NA	< 1100	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1300	NA	< 1100	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	< 1300	NA	**290 JB**	NA	**560 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**200 J**	NA	< 1100	NA	< 1100
Fluorene	230,000	3,000,000	540	-	NA	< 1300	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1300	NA	< 1100	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1300	NA	< 1100	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	< 1300	NA	< 1100	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	**270 J**	NA	< 1100	NA	< 1100
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**630**	NA	**6,730**	NA	**13,540**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-124	FTMM02-B-125		FTMM02-B-126		FTMM02-B-127
Sample ID					FTMM02-SS-B-124-2-2	FTMM02-SS-B-125-0-1.0	FTMM02-SS-B-125-2-2	FTMM02-SS-B-126-0-1.0	FTMM02-SS-B-126-2-2	FTMM02-SS-B-127-0-1.0
Sample Date					5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999	5/7/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.022**	NA	< 0.0127	NA	**0.017**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.026**	NA	< 0.0084	NA	**0.013**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0103	NA	< 0.0232	NA	**0.038**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0128	NA	< 0.0106	NA	< 0.0113
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0128	NA	< 0.0106	NA	< 0.0113
Endrin	1.8	25	0.0092	-	NA	< 0.0128	NA	< 0.0106	NA	< 0.0113
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0103	NA	< 0.0084	NA	< 0.0091
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0128	NA	< 0.0106	NA	< 0.0113
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.1026	NA	< 0.3378	NA	< 0.3626
Aroclor-1248	0.24	1	0.006	-	NA	< 0.0441	NA	< 0.1351	NA	< 0.145
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0257	NA	< 0.0844	NA	< 0.0907
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0231	NA	< 0.076	NA	< 0.0816
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**12,800**	NA	**5,780**	NA	**12,600**
Antimony	3.1	47	0.035	ND	NA	**1.1**	NA	**1.02**	NA	**1.1**
Arsenic	0.67	3	0.0015	22.9	NA	**10.4**	NA	**4.47**	NA	**21.2**
Barium	1,500	22,000	16	32.3	NA	**37.6**	NA	**9.7**	NA	**19.2**
Beryllium	16	230	1.9	2	NA	**0.949**	NA	**0.29**	NA	**1.01**
Cadmium	7	98	0.069	ND	NA	< 0.119	NA	< 0.105	NA	< 0.118
Calcium	NLE	NLE	NLE	921	NA	**2,710**	NA	**111**	NA	**1,260**
Chromium	12,000	180,000	4,000,000	269	NA	**97.5**	NA	**30.9**	NA	**103**
Cobalt	2.3	35	0.027	2.5	NA	**2.84**	NA	**1.08**	NA	**1.3**
Copper	310	4,700	2.8	8	NA	**22.9**	NA	**4.32**	NA	**12.1**
Iron	5,500	82,000	35	55,800	NA	**30,700**	NA	**13,100**	NA	**29,000**
Lead	400	800	NLE	19.5	NA	**47.6**	NA	**5.27**	NA	**18.7**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,320**	NA	**575**	NA	**2,430**
Manganese	180	2,600	2.8	90.7	NA	**175**	NA	**35.3**	NA	**56.1**
Mercury	2.3	35	0.0033	ND	NA	**0.101**	NA	**0.066**	NA	**0.153**
Nickel	150	2,200	2.6	8.4	NA	**17**	NA	**3.53**	NA	**6.12**
Potassium	NLE	NLE	NLE	15,400	NA	**7,370**	NA	**1,450**	NA	**5,980**
Selenium	39	580	0.052	1.9	NA	**0.902**	NA	**0.711**	NA	**2.28**
Silver	39	580	0.08	1.1	NA	< 0.715	NA	< 0.628	NA	< 0.71
Sodium	NLE	NLE	NLE	51.6	NA	**222**	NA	**94.4**	NA	**111**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.715	NA	< 0.628	NA	< 0.71
Vanadium	39	580	8.6	94.1	NA	**49.9**	NA	**26.5**	NA	**40**
Zinc	2,300	35,000	37	81.4	NA	**125**	NA	**29.6**	NA	**72**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-127	FTMM02-B-128		FTMM02-B-129		FTMM02-B-13
Sample ID					FTMM02-SS-B-127-2-2	FTMM02-SS-B-128-0-1.0	FTMM02-SS-B-128-2-2	FTMM02-SS-B-129-0-1.0	FTMM02-SS-B-129-2-2	FTMM02-SS-B-13-0-1.0
Sample Date					5/7/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	2/23/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 570	NA	< 730	NA	< 540	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 290	NA	< 360	NA	< 270	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 570	NA	< 730	NA	< 540	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 570	NA	< 730	NA	< 540	NA
Toluene	490,000	4,700,000	76	-	< 290	NA	< 360	NA	< 270	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**2,200**	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	NA	< 1200	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	NA	< 1200	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1200	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	NA	< 1200	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	NA	< 1200	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	**180 J**	NA	**190 J**	NA	< 1100
Benzo(a)pyrene	15	290	4	-	NA	**190 J**	NA	**190 J**	NA	< 1100
Benzo(b)fluoranthene	150	2,900	41	-	NA	**170 J**	NA	**180 J**	NA	< 1100
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	**140 J**	NA	< 1200	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**180 J**	NA	**150 J**	NA	< 1100
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**260 J**	NA	**270 J**	NA	**110 J**
Chrysene	15,000	290,000	1,200	-	NA	**410 J**	NA	**370 J**	NA	< 1100
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	NA	< 1200	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	NA	< 1200	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	NA	< 1200	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**670 JB**	NA	**610 JB**	NA	**740 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**350 J**	NA	**300 J**	NA	< 1100
Fluorene	230,000	3,000,000	540	-	NA	< 1200	NA	< 1200	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	**130 J**	NA	< 1200	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	NA	< 1200	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	**210 J**	NA	**180 J**	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	**380 J**	NA	**320 J**	NA	< 1100
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**30,530**	NA	**23,020**	NA	**7,700**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-127	FTMM02-B-128		FTMM02-B-129		FTMM02-B-13
Sample ID					FTMM02-SS-B-127-2-2	FTMM02-SS-B-128-0-1.0	FTMM02-SS-B-128-2-2	FTMM02-SS-B-129-0-1.0	FTMM02-SS-B-129-2-2	FTMM02-SS-B-13-0-1.0
Sample Date					5/7/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	2/23/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.025**	NA	**0.059**	NA	< 0.0123
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.021**	NA	**0.035**	NA	< 0.0082
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0272	NA	**0.04**	NA	< 0.0225
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0124	NA	**0.013**	NA	< 0.0102
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0124	NA	< 0.0121	NA	< 0.0102
Endrin	1.8	25	0.0092	-	NA	< 0.0124	NA	< 0.0121	NA	< 0.0102
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0099	NA	< 0.0097	NA	< 0.0082
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0124	NA	**0.015**	NA	< 0.0102
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.099	NA	< 0.097	NA	< 0.3277
Aroclor-1248	0.24	1	0.006	-	NA	< 0.0396	NA	< 0.0388	NA	< 0.1311
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0247	NA	< 0.0242	NA	< 0.0819
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0223	NA	< 0.0218	NA	< 0.0737
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**11,000**	NA	**10,500**	NA	**4,850**
Antimony	3.1	47	0.035	ND	NA	**1.43**	NA	**0.861**	NA	**0.653**
Arsenic	0.67	3	0.0015	22.9	NA	**10.3**	NA	**8.7**	NA	**5.41**
Barium	1,500	22,000	16	32.3	NA	**33.8**	NA	**35.3**	NA	**9.51**
Beryllium	16	230	1.9	2	NA	**0.907**	NA	**0.816**	NA	**0.492**
Cadmium	7	98	0.069	ND	NA	**1.34**	NA	**0.595**	NA	**0.158**
Calcium	NLE	NLE	NLE	921	NA	**2,530**	NA	**1,930**	NA	**212**
Chromium	12,000	180,000	4,000,000	269	NA	**170**	NA	**81.4**	NA	**81.5**
Cobalt	2.3	35	0.027	2.5	NA	**2.46**	NA	**2.29**	NA	**0.918**
Copper	310	4,700	2.8	8	NA	**20.5**	NA	**19.9**	NA	**7.61**
Iron	5,500	82,000	35	55,800	NA	**28,500**	NA	**25,500**	NA	**18,800**
Lead	400	800	NLE	19.5	NA	**41.9**	NA	**72.7**	NA	**8.5**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,590**	NA	**2,800**	NA	**1,170**
Manganese	180	2,600	2.8	90.7	NA	**164**	NA	**66**	NA	**14**
Mercury	2.3	35	0.0033	ND	NA	**0.619**	NA	**1.571**	NA	**0.64**
Nickel	150	2,200	2.6	8.4	NA	**9.27**	NA	**7.78**	NA	**3.11**
Potassium	NLE	NLE	NLE	15,400	NA	**6,860**	NA	**5,660**	NA	**3,040**
Selenium	39	580	0.052	1.9	NA	**1.27**	NA	**1.36**	NA	**0.65**
Silver	39	580	0.08	1.1	NA	< 0.716	NA	< 0.714	NA	< 0.645
Sodium	NLE	NLE	NLE	51.6	NA	**141**	NA	**158**	NA	**58.6**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.716	NA	< 0.714	NA	< 0.645
Vanadium	39	580	8.6	94.1	NA	**48.3**	NA	**50**	NA	**69.7**
Zinc	2,300	35,000	37	81.4	NA	**83.7**	NA	**87.4**	NA	**42.8**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-13	FTMM02-B-130		FTMM02-B-131		FTMM02-B-132
Sample ID					FTMM02-SS-B-13-2-2	FTMM02-SS-B-130-0-1.0	FTMM02-SS-B-130-2-2	FTMM02-SS-B-131-0-1.0	FTMM02-SS-B-131-2-2	FTMM02-SS-B-132-0-1.0
Sample Date					2/23/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 610	NA	< 640	NA	< 850	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 310	NA	< 320	NA	< 420	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 610	NA	< 640	NA	< 850	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 610	NA	< 640	NA	< 850	NA
Toluene	490,000	4,700,000	76	-	< 310	NA	< 320	NA	< 420	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	NA	**160 J**	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	NA	**580 J**	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1200	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	NA	**750 J**	NA	**210 J**
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	NA	< 1200	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	**170 J**	NA	**1,600**	NA	**840 J**
Benzo(a)pyrene	15	290	4	-	NA	**210 J**	NA	**1,600**	NA	**770 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	**180 J**	NA	**1,300**	NA	**680 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	**160 J**	NA	**930 J**	NA	**450 J**
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**180 J**	NA	**1,300**	NA	**630 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**150 J**	NA	**120 J**	NA	**160 J**
Chrysene	15,000	290,000	1,200	-	NA	**330 J**	NA	**2,800**	NA	**1,400**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	NA	**290 J**	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	NA	**310 J**	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	NA	< 1200	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**190 JB**	NA	**810 JB**	NA	**480 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**260 J**	NA	**4,200**	NA	**1,900**
Fluorene	230,000	3,000,000	540	-	NA	< 1200	NA	**500 J**	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	**150 J**	NA	**900 J**	NA	**440 J**
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	NA	**400 J**	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	**160 J**	NA	**4,000**	NA	**710 J**
Pyrene	170,000	2,300,000	1,300	-	NA	**290 J**	NA	**3,400**	NA	**1,500**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**17,670**	NA	**15,520**	NA	**14,230**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-13	FTMM02-B-130		FTMM02-B-131		FTMM02-B-132
Sample ID					FTMM02-SS-B-13-2-2	FTMM02-SS-B-130-0-1.0	FTMM02-SS-B-130-2-2	FTMM02-SS-B-131-0-1.0	FTMM02-SS-B-131-2-2	FTMM02-SS-B-132-0-1.0
Sample Date					2/23/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.019**	NA	< 0.0141	NA	< 0.014
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.014**	NA	**0.01**	NA	**0.018**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0256	NA	< 0.0258	NA	< 0.0257
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0116	NA	< 0.0117	NA	< 0.0117
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0116	NA	< 0.0117	NA	< 0.0117
Endrin	1.8	25	0.0092	-	NA	< 0.0116	NA	< 0.0117	NA	< 0.0117
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0093	NA	< 0.0094	NA	< 0.0094
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0116	NA	< 0.0117	NA	< 0.0117
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3726	NA	< 0.375	NA	< 0.3742
Aroclor-1248	0.24	1	0.006	-	NA	< 0.149	NA	< 0.15	NA	< 0.1497
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0932	NA	< 0.0938	NA	< 0.0935
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0838	NA	< 0.0844	NA	< 0.0842
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**12,100**	NA	**17,300**	NA	**12,500**
Antimony	3.1	47	0.035	ND	NA	**1.1**	NA	**1.16**	NA	**0.712**
Arsenic	0.67	3	0.0015	22.9	NA	**19.4**	NA	**15.1**	NA	**11**
Barium	1,500	22,000	16	32.3	NA	**42.5**	NA	**54.3**	NA	**32.4**
Beryllium	16	230	1.9	2	NA	**1.15**	NA	**1.82**	NA	**1.28**
Cadmium	7	98	0.069	ND	NA	**0.699**	NA	**0.697**	NA	**0.563**
Calcium	NLE	NLE	NLE	921	NA	**5,190**	NA	**800**	NA	**2,610**
Chromium	12,000	180,000	4,000,000	269	NA	**175**	NA	**235**	NA	**104**
Cobalt	2.3	35	0.027	2.5	NA	**2.13**	NA	**1.04**	NA	**2.63**
Copper	310	4,700	2.8	8	NA	**24.3**	NA	**11.8**	NA	**11**
Iron	5,500	82,000	35	55,800	NA	**44,500**	NA	**56,500**	NA	**39,300**
Lead	400	800	NLE	19.5	NA	**29.8**	NA	**11.2**	NA	**28.4**
Magnesium	NLE	NLE	NLE	7,230	NA	**4,380**	NA	**7,390**	NA	**4,170**
Manganese	180	2,600	2.8	90.7	NA	**503**	NA	**31**	NA	**87.8**
Mercury	2.3	35	0.0033	ND	NA	**0.585**	NA	**0.292**	NA	**0.244**
Nickel	150	2,200	2.6	8.4	NA	**7.67**	NA	**7.75**	NA	**9.48**
Potassium	NLE	NLE	NLE	15,400	NA	**8,260**	NA	**16,900**	NA	**9,620**
Selenium	39	580	0.052	1.9	NA	**2.7**	NA	**3.06**	NA	**1.02**
Silver	39	580	0.08	1.1	NA	< 0.649	NA	< 0.658	NA	< 0.63
Sodium	NLE	NLE	NLE	51.6	NA	**928**	NA	**869**	NA	**367**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.649	NA	< 0.658	NA	< 0.63
Vanadium	39	580	8.6	94.1	NA	**52.6**	NA	**71.9**	NA	**53.6**
Zinc	2,300	35,000	37	81.4	NA	**90.3**	NA	**81**	NA	**66.4**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-132	FTMM02-B-133		FTMM02-B-134		FTMM02-B-135
Sample ID					FTMM02-SS-B-132-2-2	FTMM02-SS-B-133-0-1.0	FTMM02-SS-B-133-2-2	FTMM02-SS-B-134-0-1.0	FTMM02-SS-B-134-2-2	FTMM02-SS-B-135-0-1.0
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 570	NA	< 540	NA	< 500	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 290	NA	< 270	NA	< 250	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 570	NA	< 540	NA	< 500	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 570	NA	< 540	NA	< 500	NA
Toluene	490,000	4,700,000	76	-	< 290	NA	< 270	NA	< 250	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1000	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1000	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1000	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1000	NA	< 1200
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1000	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	< 1000	NA	< 1200
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	< 1000	NA	< 1200
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	< 1000	NA	**120 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1000	NA	< 1200
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	< 1000	NA	< 1200
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1100	NA	**140 J**	NA	**220 J**
Chrysene	15,000	290,000	1,200	-	NA	< 1100	NA	< 1000	NA	**290 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1000	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1000	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	**110 J**	NA	< 1000	NA	**170 J**
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**160 JB**	NA	**550 JB**	NA	**450 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1100	NA	< 1000	NA	**230 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1000	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1000	NA	< 1200
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1000	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1000	NA	< 1200
Pyrene	170,000	2,300,000	1,300	-	NA	< 1100	NA	< 1000	NA	**200 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**10,190**	NA	**17,580**	NA	**42,410**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-132	FTMM02-B-133		FTMM02-B-134		FTMM02-B-135
Sample ID					FTMM02-SS-B-132-2-2	FTMM02-SS-B-133-0-1.0	FTMM02-SS-B-133-2-2	FTMM02-SS-B-134-0-1.0	FTMM02-SS-B-134-2-2	FTMM02-SS-B-135-0-1.0
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	< 0.0125	NA	< 0.0125	NA	**0.044**
4,4'-DDE	1.6	6.8	0.054	-	NA	< 0.0083	NA	< 0.0084	NA	**0.029**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0229	NA	< 0.023	NA	**0.032**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0104	NA	< 0.0104	NA	< 0.0118
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0104	NA	< 0.0104	NA	**0.029**
Endrin	1.8	25	0.0092	-	NA	< 0.0104	NA	< 0.0104	NA	< 0.0118
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0083	NA	< 0.0084	NA	< 0.0094
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0104	NA	< 0.0104	NA	< 0.0118
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3334	NA	< 0.3342	NA	< 0.3764
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1334	NA	< 0.1337	NA	< 0.1506
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0833	NA	< 0.0835	NA	< 0.0941
Aroclor-1260	0.24	1	0.027	-	NA	< 0.075	NA	< 0.0752	NA	< 0.0847
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**5,940**	NA	**8,930**	NA	**12,500**
Antimony	3.1	47	0.035	ND	NA	< 0.408	NA	< 0.365	NA	**1.19**
Arsenic	0.67	3	0.0015	22.9	NA	**4.56**	NA	**4.2**	NA	**16.2**
Barium	1,500	22,000	16	32.3	NA	**24**	NA	**16.8**	NA	**29.6**
Beryllium	16	230	1.9	2	NA	**0.331**	NA	**0.359**	NA	**1.06**
Cadmium	7	98	0.069	ND	NA	**0.246**	NA	**0.217**	NA	**1.21**
Calcium	NLE	NLE	NLE	921	NA	**353**	NA	**180**	NA	**1,910**
Chromium	12,000	180,000	4,000,000	269	NA	**37.3**	NA	**37.6**	NA	**115**
Cobalt	2.3	35	0.027	2.5	NA	**1.52**	NA	**1.46**	NA	**1.72**
Copper	310	4,700	2.8	8	NA	**10.8**	NA	**4.3**	NA	**28.8**
Iron	5,500	82,000	35	55,800	NA	**14,400**	NA	**15,100**	NA	**33,100**
Lead	400	800	NLE	19.5	NA	**10.5**	NA	**5.79**	NA	**36.9**
Magnesium	NLE	NLE	NLE	7,230	NA	**899**	NA	**993**	NA	**3,750**
Manganese	180	2,600	2.8	90.7	NA	**65.2**	NA	**38.6**	NA	**66.2**
Mercury	2.3	35	0.0033	ND	NA	**0.161**	NA	**0.241**	NA	**0.627**
Nickel	150	2,200	2.6	8.4	NA	**3.71**	NA	**4**	NA	**8.01**
Potassium	NLE	NLE	NLE	15,400	NA	**1,930**	NA	**2,330**	NA	**7,480**
Selenium	39	580	0.052	1.9	NA	**0.808**	NA	< 0.548	NA	**1.74**
Silver	39	580	0.08	1.1	NA	< 0.613	NA	< 0.548	NA	**1.58**
Sodium	NLE	NLE	NLE	51.6	NA	**419**	NA	**78.6**	NA	**888**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.613	NA	< 0.548	NA	< 0.69
Vanadium	39	580	8.6	94.1	NA	**32.9**	NA	**32.7**	NA	**59.5**
Zinc	2,300	35,000	37	81.4	NA	**51.7**	NA	**18.4**	NA	**78.3**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-135	FTMM02-B-136				FTMM02-B-137
Sample ID					FTMM02-SS-B-135-2-2	FTMM02-SS-B-136-0-1.0	FTMM02-SS-B-136-0-1.0-Dup	FTMM02-SS-B-136-2-2	FTMM02-SS-B-136-2-2-Dup	FTMM02-SS-B-137-0-1.0
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 560	NA	NA	< 530	< 550	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 280	NA	NA	< 270	< 270	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 560	NA	NA	< 530	< 550	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 560	NA	NA	< 530	< 550	NA
Toluene	490,000	4,700,000	76	-	< 280	NA	NA	< 270	< 270	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	NA	ND	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1300	< 1300	NA	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1300	< 1300	NA	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1300	< 1300	NA	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1300	< 1300	NA	NA	< 1200
Azobenzene	5,600	26,000	0.92	-	NA	< 1300	< 1300	NA	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	< 1300	< 1300	NA	NA	**180 J**
Benzo(a)pyrene	15	290	4	-	NA	< 1300	< 1300	NA	NA	**170 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1300	< 1300	NA	NA	**150 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1300	< 1300	NA	NA	< 1200
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1300	< 1300	NA	NA	**150 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**170 J**	< 1300	NA	NA	**150 J**
Chrysene	15,000	290,000	1,200	-	NA	< 1300	< 1300	NA	NA	**340 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1300	< 1300	NA	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	NA	< 1300	< 1300	NA	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1300	< 1300	NA	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**880 JB**	**240 JB**	NA	NA	**930 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1300	< 1300	NA	NA	**340 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1300	< 1300	NA	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1300	< 1300	NA	NA	< 1200
Naphthalene	3,800	17,000	0.54	-	NA	< 1300	< 1300	NA	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	< 1300	< 1300	NA	NA	**210 J**
Pyrene	170,000	2,300,000	1,300	-	NA	< 1300	< 1300	NA	NA	**290 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**22,260**	**10,100**	NA	NA	**21,740**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-135	FTMM02-B-136				FTMM02-B-137
Sample ID					FTMM02-SS-B-135-2-2	FTMM02-SS-B-136-0-1.0	FTMM02-SS-B-136-0-1.0-Dup	FTMM02-SS-B-136-2-2	FTMM02-SS-B-136-2-2-Dup	FTMM02-SS-B-137-0-1.0
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.08**	**0.163**	NA	NA	**0.033**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.021**	**0.032**	NA	NA	**0.018**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0289	< 0.029	NA	NA	< 0.0258
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0131	< 0.0132	NA	NA	< 0.0117
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0131	< 0.0132	NA	NA	< 0.0117
Endrin	1.8	25	0.0092	-	NA	< 0.0131	< 0.0132	NA	NA	< 0.0117
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0105	< 0.0106	NA	NA	< 0.0094
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0131	< 0.0132	NA	NA	< 0.0117
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.1049	< 0.1056	NA	NA	< 0.3754
Aroclor-1248	0.24	1	0.006	-	NA	< 0.042	< 0.0422	NA	NA	< 0.1502
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0262	< 0.0264	NA	NA	< 0.0938
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0236	< 0.0238	NA	NA	< 0.0845
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**7,700**	**9,440**	NA	NA	**9,250**
Antimony	3.1	47	0.035	ND	NA	**0.903**	**0.995**	NA	NA	**0.971**
Arsenic	0.67	3	0.0015	22.9	NA	**14.9**	**11.1**	NA	NA	**6.79**
Barium	1,500	22,000	16	32.3	NA	**83.4**	**60.4**	NA	NA	**27.2**
Beryllium	16	230	1.9	2	NA	**1.12**	**1.27**	NA	NA	**0.697**
Cadmium	7	98	0.069	ND	NA	**0.413**	**0.455**	NA	NA	**0.681**
Calcium	NLE	NLE	NLE	921	NA	**2,110**	**1,820**	NA	NA	**1,710**
Chromium	12,000	180,000	4,000,000	269	NA	**113**	**114**	NA	NA	**63.8**
Cobalt	2.3	35	0.027	2.5	NA	**1.24**	**1.47**	NA	NA	**2.08**
Copper	310	4,700	2.8	8	NA	**11**	**16**	NA	NA	**11.9**
Iron	5,500	82,000	35	55,800	NA	**32,000**	**29,000**	NA	NA	**23,400**
Lead	400	800	NLE	19.5	NA	**13.4**	**22**	NA	NA	**40.4**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,950**	**3,670**	NA	NA	**2,400**
Manganese	180	2,600	2.8	90.7	NA	**50.5**	**43.7**	NA	NA	**62.6**
Mercury	2.3	35	0.0033	ND	NA	**0.202**	**0.2**	NA	NA	**0.19**
Nickel	150	2,200	2.6	8.4	NA	**5.68**	**6.79**	NA	NA	**7.74**
Potassium	NLE	NLE	NLE	15,400	NA	**9,840**	**8,460**	NA	NA	**5,040**
Selenium	39	580	0.052	1.9	NA	**3.15**	**2.45**	NA	NA	**1.15**
Silver	39	580	0.08	1.1	NA	< 0.713	< 0.714	NA	NA	< 0.65
Sodium	NLE	NLE	NLE	51.6	NA	**159**	**737**	NA	NA	**162**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.713	< 0.714	NA	NA	< 0.65
Vanadium	39	580	8.6	94.1	NA	**31**	**43.6**	NA	NA	**52.1**
Zinc	2,300	35,000	37	81.4	NA	**109**	**86.7**	NA	NA	**63.7**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-137	FTMM02-B-138		FTMM02-B-139		FTMM02-B-14
Sample ID					FTMM02-SS-B-137-2-2	FTMM02-SS-B-138-0-1.0	FTMM02-SS-B-138-2-2	FTMM02-SS-B-139-0-1.0	FTMM02-SS-B-139-2-2	FTMM02-SS-B-14-0-1.0
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	2/23/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 550	NA	< 570	NA	< 560	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 270	NA	< 290	NA	< 280	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 550	NA	< 570	NA	< 560	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 550	NA	< 570	NA	< 560	NA
Toluene	490,000	4,700,000	76	-	< 270	NA	< 290	NA	< 280	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1200	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1200	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1200	NA	< 1200
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	**240 J**	NA	**220 J**
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	**270 J**	NA	**200 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	**260 J**	NA	**160 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	**170 J**	NA	**130 J**
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	**230 J**	NA	**180 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1100	NA	**130 J**	NA	**160 J**
Chrysene	15,000	290,000	1,200	-	NA	< 1100	NA	**460 J**	NA	**440 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1200	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1200	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1200	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**230 JB**	NA	**410 JB**	NA	**1,300 B**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1100	NA	**340 J**	NA	**460 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1200	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	**180 J**	NA	**120 J**
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1200	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	**390 J**
Pyrene	170,000	2,300,000	1,300	-	NA	< 1100	NA	**330 J**	NA	**460 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**12,570**	NA	**25,680**	NA	**17,700**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-137	FTMM02-B-138		FTMM02-B-139		FTMM02-B-14
Sample ID					FTMM02-SS-B-137-2-2	FTMM02-SS-B-138-0-1.0	FTMM02-SS-B-138-2-2	FTMM02-SS-B-139-0-1.0	FTMM02-SS-B-139-2-2	FTMM02-SS-B-14-0-1.0
Sample Date					5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	2/23/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.21**	NA	**0.033**	NA	**0.069**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.056**	NA	**0.019**	NA	**0.069**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0247	NA	**0.028**	NA	**0.079**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0112	NA	< 0.0119	NA	< 0.0119
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0112	NA	< 0.0119	NA	< 0.0119
Endrin	1.8	25	0.0092	-	NA	< 0.0112	NA	< 0.0119	NA	< 0.0119
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.009	NA	< 0.0096	NA	< 0.0095
Gamma-Chlordane	1.8	8	0.015	-	NA	**0.019**	NA	< 0.0119	NA	< 0.0119
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3597	NA	< 0.3824	NA	< 0.3817
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1439	NA	< 0.1529	NA	< 0.1527
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0809	NA	< 0.0956	NA	< 0.0954
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0809	NA	< 0.086	NA	< 0.0859
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**6,700**	NA	**12,000**	NA	**11,100**
Antimony	3.1	47	0.035	ND	NA	**3.4**	NA	**0.868**	NA	**0.919**
Arsenic	0.67	3	0.0015	22.9	NA	**6.9**	NA	**13.7**	NA	**12.3**
Barium	1,500	22,000	16	32.3	NA	**38.8**	NA	**40.1**	NA	**68.3**
Beryllium	16	230	1.9	2	NA	**0.564**	NA	**1.12**	NA	**2.11**
Cadmium	7	98	0.069	ND	NA	**0.328**	NA	**0.573**	NA	**0.674**
Calcium	NLE	NLE	NLE	921	NA	**1,710**	NA	**1,820**	NA	**1,030**
Chromium	12,000	180,000	4,000,000	269	NA	**41.9**	NA	**99.7**	NA	**106**
Cobalt	2.3	35	0.027	2.5	NA	**4.96**	NA	**2.61**	NA	**3.72**
Copper	310	4,700	2.8	8	NA	**51.8**	NA	**11.2**	NA	**35.6**
Iron	5,500	82,000	35	55,800	NA	**20,300**	NA	**35,900**	NA	**34,000**
Lead	400	800	NLE	19.5	NA	**37.4**	NA	**18**	NA	**48.7**
Magnesium	NLE	NLE	NLE	7,230	NA	**2,160**	NA	**4,090**	NA	**2,650**
Manganese	180	2,600	2.8	90.7	NA	**59.4**	NA	**68.7**	NA	**49.1**
Mercury	2.3	35	0.0033	ND	NA	**0.522**	NA	**0.282**	NA	**0.61**
Nickel	150	2,200	2.6	8.4	NA	**8.55**	NA	**8.1**	NA	**15.4**
Potassium	NLE	NLE	NLE	15,400	NA	**3,070**	NA	**9,380**	NA	**5,140**
Selenium	39	580	0.052	1.9	NA	< 0.681	NA	**1.57**	NA	**1.31**
Silver	39	580	0.08	1.1	NA	< 0.681	NA	< 0.727	NA	< 0.772
Sodium	NLE	NLE	NLE	51.6	NA	**197**	NA	**150**	NA	**76.4**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.681	NA	< 0.727	NA	< 0.772
Vanadium	39	580	8.6	94.1	NA	**31.2**	NA	**51.6**	NA	**58.5**
Zinc	2,300	35,000	37	81.4	NA	**122**	NA	**94.6**	NA	**187**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-14	FTMM02-B-140		FTMM02-B-141		FTMM02-B-142
Sample ID					FTMM02-SS-B-14-2-2	FTMM02-SS-B-140-0-1.0	FTMM02-SS-B-140-2-2	FTMM02-SS-B-141-0-1.0	FTMM02-SS-B-141-2-2	FTMM02-SS-B-142-0-1.0
Sample Date					2/23/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 670	NA	< 570	NA	< 680	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 340	NA	< 280	NA	< 340	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 670	NA	< 570	NA	< 680	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 670	NA	< 570	NA	< 680	NA
Toluene	490,000	4,700,000	76	-	< 340	NA	< 280	NA	< 340	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	NA	< 1000
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	NA	< 1000
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1000
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	NA	< 1000
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	NA	< 1000
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	**130 J**	NA	< 1000
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	**150 J**	NA	< 1000
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	**130 J**	NA	< 1000
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1000
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	**120 J**	NA	< 1000
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**210 J**	NA	**330 J**	NA	< 1000
Chrysene	15,000	290,000	1,200	-	NA	**180 J**	NA	**280 J**	NA	< 1000
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1100	NA	< 1000
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	NA	< 1000
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1100	NA	**180 J**
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**230 JB**	NA	**810 JB**	NA	**150 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**160 J**	NA	**240 J**	NA	< 1000
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	NA	< 1000
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1100	NA	< 1000
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	NA	< 1000
Phenanthrene	NLE	NLE	NLE	-	NA	**110 J**	NA	**110 J**	NA	< 1000
Pyrene	170,000	2,300,000	1,300	-	NA	**150 J**	NA	**250 J**	NA	< 1000
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**11,960**	NA	**59,700**	NA	**8,650**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-14	FTMM02-B-140		FTMM02-B-141		FTMM02-B-142
Sample ID					FTMM02-SS-B-14-2-2	FTMM02-SS-B-140-0-1.0	FTMM02-SS-B-140-2-2	FTMM02-SS-B-141-0-1.0	FTMM02-SS-B-141-2-2	FTMM02-SS-B-142-0-1.0
Sample Date					2/23/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999	5/10/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	< 0.013	NA	**0.101**	NA	< 0.0125
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.01**	NA	**0.061**	NA	< 0.0083
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0238	NA	**0.083**	NA	< 0.0229
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0108	NA	< 0.0114	NA	< 0.0104
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0108	NA	< 0.0114	NA	< 0.0104
Endrin	1.8	25	0.0092	-	NA	< 0.0108	NA	< 0.0114	NA	< 0.0104
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0087	NA	< 0.0091	NA	< 0.0083
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0108	NA	< 0.0114	NA	< 0.0104
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3465	NA	< 0.3653	NA	< 0.3329
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1386	NA	< 0.1461	NA	< 0.1332
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0866	NA	< 0.0913	NA	< 0.0832
Aroclor-1260	0.24	1	0.027	-	NA	< 0.078	NA	< 0.0822	NA	< 0.0749
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**4,170**	NA	**7,960**	NA	**5,100**
Antimony	3.1	47	0.035	ND	NA	< 0.416	NA	**0.681**	NA	< 0.396
Arsenic	0.67	3	0.0015	22.9	NA	**5.02**	NA	**7.29**	NA	**3.81**
Barium	1,500	22,000	16	32.3	NA	**17.5**	NA	**44.6**	NA	**8.96**
Beryllium	16	230	1.9	2	NA	**0.399**	NA	**0.66**	NA	**0.281**
Cadmium	7	98	0.069	ND	NA	**0.382**	NA	**0.406**	NA	**0.252**
Calcium	NLE	NLE	NLE	921	NA	**6,300**	NA	**1,410**	NA	**117**
Chromium	12,000	180,000	4,000,000	269	NA	**41.7**	NA	**62.3**	NA	**32.1**
Cobalt	2.3	35	0.027	2.5	NA	**1.71**	NA	**2.17**	NA	**1.32**
Copper	310	4,700	2.8	8	NA	**14.7**	NA	**11.8**	NA	**3.93**
Iron	5,500	82,000	35	55,800	NA	**14,600**	NA	**18,800**	NA	**13,600**
Lead	400	800	NLE	19.5	NA	**30**	NA	**29.2**	NA	**4.95**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,700**	NA	**2,020**	NA	**696**
Manganese	180	2,600	2.8	90.7	NA	**120**	NA	**90.7**	NA	**33.6**
Mercury	2.3	35	0.0033	ND	NA	**0.207**	NA	**0.213**	NA	**0.161**
Nickel	150	2,200	2.6	8.4	NA	**5.56**	NA	**6.06**	NA	**3.28**
Potassium	NLE	NLE	NLE	15,400	NA	**2,790**	NA	**4,070**	NA	**1,480**
Selenium	39	580	0.052	1.9	NA	**0.708**	NA	**1.01**	NA	< 0.595
Silver	39	580	0.08	1.1	NA	< 0.624	NA	< 0.681	NA	< 0.595
Sodium	NLE	NLE	NLE	51.6	NA	**334**	NA	**245**	NA	**110**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.624	NA	< 0.681	NA	< 0.595
Vanadium	39	580	8.6	94.1	NA	**22.6**	NA	**36.3**	NA	**28.6**
Zinc	2,300	35,000	37	81.4	NA	**56.5**	NA	**54.9**	NA	**15.6**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-142	FTMM02-B-142A		FTMM02-B-143		FTMM02-B-144
Sample ID					FTMM02-SS-B-142-2-2	FTMM02-SS-B-142A-0-1.0	FTMM02-SS-B-142A-2-2	FTMM02-SS-B-143-0-1.0	FTMM02-SS-B-143-2-2	FTMM02-SS-B-144-0-1.0
Sample Date					5/10/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 540	NA	< 530	NA	< 550	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 270	NA	< 270	NA	< 270	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 540	NA	< 530	NA	< 550	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	**3,200**	NA	< 530	NA	< 550	NA
Toluene	490,000	4,700,000	76	-	< 270	NA	< 270	NA	< 270	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**4,700**	NA	**4,900**	NA	**4,400**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 930	NA	< 1100	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 930	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 930	NA	< 1100	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 930	NA	< 1100	NA	**3,400**
Azobenzene	5,600	26,000	0.92	-	NA	< 930	NA	< 1100	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	< 930	NA	< 1100	NA	**190 J**
Benzo(a)pyrene	15	290	4	-	NA	< 930	NA	< 1100	NA	**210 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 930	NA	< 1100	NA	**280 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 930	NA	< 1100	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 930	NA	< 1100	NA	**270 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 930	NA	< 1100	NA	< 1100
Chrysene	15,000	290,000	1,200	-	NA	< 930	NA	< 1100	NA	**1,100 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 930	NA	< 1100	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 930	NA	< 1100	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 930	NA	< 1100	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**240 JB**	NA	**410 JB**	NA	**250 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 930	NA	< 1100	NA	**300 J**
Fluorene	230,000	3,000,000	540	-	NA	< 930	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 930	NA	< 1100	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 930	NA	< 1100	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	< 930	NA	< 1100	NA	**150 J**
Pyrene	170,000	2,300,000	1,300	-	NA	< 930	NA	< 1100	NA	**250 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**14,350**	NA	**44,350**	NA	**26,200**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-142	FTMM02-B-142A		FTMM02-B-143		FTMM02-B-144
Sample ID					FTMM02-SS-B-142-2-2	FTMM02-SS-B-142A-0-1.0	FTMM02-SS-B-142A-2-2	FTMM02-SS-B-143-0-1.0	FTMM02-SS-B-143-2-2	FTMM02-SS-B-144-0-1.0
Sample Date					5/10/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**1.75**	NA	**0.022**	NA	**0.058**
4,4'-DDE	1.6	6.8	0.054	-	NA	**3.705**	NA	**0.018**	NA	**0.044**
4,4'-DDT	1.9	8.6	0.077	-	NA	**6.811**	NA	< 0.0251	NA	**0.881**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0109	NA	< 0.0114	NA	< 0.0121
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0109	NA	< 0.0114	NA	< 0.0121
Endrin	1.8	25	0.0092	-	NA	< 0.0109	NA	< 0.0114	NA	< 0.0121
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0087	NA	< 0.0091	NA	< 0.0097
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0109	NA	< 0.0114	NA	< 0.0121
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3477	NA	< 0.3648	NA	< 0.0969
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1391	NA	< 0.1459	NA	< 0.0387
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0869	NA	< 0.0912	NA	< 0.0242
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0782	NA	< 0.0821	NA	< 0.0218
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**6,510**	NA	**10,700**	NA	**6,430**
Antimony	3.1	47	0.035	ND	NA	**0.939**	NA	**1.3**	NA	**0.881**
Arsenic	0.67	3	0.0015	22.9	NA	**7.77**	NA	**11.5**	NA	**15.1**
Barium	1,500	22,000	16	32.3	NA	**13.2**	NA	**46.5**	NA	**68.4**
Beryllium	16	230	1.9	2	NA	**0.751**	NA	**1.18**	NA	**1.02**
Cadmium	7	98	0.069	ND	NA	**0.369**	NA	**0.616**	NA	**0.723**
Calcium	NLE	NLE	NLE	921	NA	**384**	NA	**1,380**	NA	**2,580**
Chromium	12,000	180,000	4,000,000	269	NA	**54.7**	NA	**107**	NA	**81.8**
Cobalt	2.3	35	0.027	2.5	NA	**1.31**	NA	**1.43**	NA	**1.55**
Copper	310	4,700	2.8	8	NA	**9.12**	NA	**43.2**	NA	**9.73**
Iron	5,500	82,000	35	55,800	NA	**18,200**	NA	**34,700**	NA	**25,700**
Lead	400	800	NLE	19.5	NA	**38.6**	NA	**39.1**	NA	**21.2**
Magnesium	NLE	NLE	NLE	7,230	NA	**1,060**	NA	**3,520**	NA	**2,760**
Manganese	180	2,600	2.8	90.7	NA	**11.9**	NA	**27.2**	NA	**69.3**
Mercury	2.3	35	0.0033	ND	NA	**0.605**	NA	**5.836**	NA	**0.731**
Nickel	150	2,200	2.6	8.4	NA	**6.5**	NA	**6.33**	NA	**6.8**
Potassium	NLE	NLE	NLE	15,400	NA	**2,160**	NA	**7,830**	NA	**6,910**
Selenium	39	580	0.052	1.9	NA	**1.44**	NA	**1.75**	NA	**1.98**
Silver	39	580	0.08	1.1	NA	< 0.67	NA	< 0.586	NA	< 0.77
Sodium	NLE	NLE	NLE	51.6	NA	**96**	NA	**133**	NA	**164**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.67	NA	< 0.586	NA	< 0.77
Vanadium	39	580	8.6	94.1	NA	**51.5**	NA	**48.9**	NA	**25.3**
Zinc	2,300	35,000	37	81.4	NA	**52.4**	NA	**55.2**	NA	**67.6**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-144	FTMM02-B-145		FTMM02-B-146		FTMM02-B-147
Sample ID					FTMM02-SS-B-144-2-2	FTMM02-SS-B-145-0-1.0	FTMM02-SS-B-145-2-2	FTMM02-SS-B-146-0-1.0	FTMM02-SS-B-146-2-2	FTMM02-SS-B-147-0-1.0
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 560	NA	< 600	NA	< 560	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 280	NA	< 300	NA	< 280	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 560	NA	< 600	NA	< 560	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 560	NA	< 600	NA	< 560	NA
Toluene	490,000	4,700,000	76	-	< 280	NA	< 300	NA	< 280	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**2,500**	NA	**1,900**	NA	**2,700**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1600	NA	< 960	NA	< 1000
Acenaphthene	350,000	4,500,000	550	-	NA	< 1600	NA	< 960	NA	< 1000
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1600	NA	< 960	NA	< 1000
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1600	NA	< 960	NA	< 1000
Azobenzene	5,600	26,000	0.92	-	NA	< 1600	NA	< 960	NA	< 1000
Benzo(a)anthracene	150	2,900	12	-	NA	**200 J**	NA	**110 J**	NA	< 1000
Benzo(a)pyrene	15	290	4	-	NA	**210 J**	NA	**110 J**	NA	< 1000
Benzo(b)fluoranthene	150	2,900	41	-	NA	**280 J**	NA	**110 J**	NA	< 1000
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1600	NA	< 960	NA	< 1000
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**200 J**	NA	< 960	NA	< 1000
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**160 J**	NA	< 960	NA	< 1000
Chrysene	15,000	290,000	1,200	-	NA	**530 J**	NA	**210 J**	NA	**170 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1600	NA	< 960	NA	< 1000
Dibenzofuran	7,200	100,000	15	-	NA	< 1600	NA	< 960	NA	< 1000
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1600	NA	< 960	NA	< 1000
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**960 JB**	NA	**220 JB**	NA	**670 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**260 J**	NA	**180 J**	NA	**120 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1600	NA	< 960	NA	< 1000
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1600	NA	< 960	NA	< 1000
Naphthalene	3,800	17,000	0.54	-	NA	< 1600	NA	< 960	NA	< 1000
Phenanthrene	NLE	NLE	NLE	-	NA	< 1600	NA	< 960	NA	< 1000
Pyrene	170,000	2,300,000	1,300	-	NA	**260 J**	NA	**170 J**	NA	**130 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**51,060**	NA	**21,570**	NA	**17,420**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-144	FTMM02-B-145		FTMM02-B-146		FTMM02-B-147
Sample ID					FTMM02-SS-B-144-2-2	FTMM02-SS-B-145-0-1.0	FTMM02-SS-B-145-2-2	FTMM02-SS-B-146-0-1.0	FTMM02-SS-B-146-2-2	FTMM02-SS-B-147-0-1.0
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.055**	NA	**0.041**	NA	**0.021**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.06**	NA	**0.052**	NA	**0.018**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0362	NA	< 0.0251	NA	**0.264**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0164	NA	**0.028**	NA	< 0.011
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0164	NA	< 0.0114	NA	< 0.011
Endrin	1.8	25	0.0092	-	NA	< 0.0164	NA	< 0.0114	NA	< 0.011
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0131	NA	< 0.0091	NA	< 0.0088
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0164	NA	**0.019**	NA	< 0.011
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.1315	NA	< 0.3649	NA	< 0.3513
Aroclor-1248	0.24	1	0.006	-	NA	< 0.0526	NA	< 0.146	NA	< 0.1405
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0329	NA	< 0.0912	NA	< 0.0878
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0296	NA	< 0.0821	NA	< 0.079
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**5,810**	NA	**12,100**	NA	**9,420**
Antimony	3.1	47	0.035	ND	NA	**1.51**	NA	**0.818**	NA	**0.752**
Arsenic	0.67	3	0.0015	22.9	NA	**6.54**	NA	**8.66**	NA	**6.38**
Barium	1,500	22,000	16	32.3	NA	**33.6**	NA	**39.5**	NA	**30.4**
Beryllium	16	230	1.9	2	NA	**0.593**	NA	**1.22**	NA	**0.9**
Cadmium	7	98	0.069	ND	NA	**1.03**	NA	**0.675**	NA	**0.492**
Calcium	NLE	NLE	NLE	921	NA	**3,760**	NA	**1,590**	NA	**874**
Chromium	12,000	180,000	4,000,000	269	NA	**49.8**	NA	**113**	NA	**84.8**
Cobalt	2.3	35	0.027	2.5	NA	**2.17**	NA	**1.84**	NA	**1.42**
Copper	310	4,700	2.8	8	NA	**22.6**	NA	**23.1**	NA	**5.32**
Iron	5,500	82,000	35	55,800	NA	**18,000**	NA	**35,600**	NA	**25,600**
Lead	400	800	NLE	19.5	NA	**48.8**	NA	**22.6**	NA	**20.3**
Magnesium	NLE	NLE	NLE	7,230	NA	**1,870**	NA	**4,190**	NA	**3,030**
Manganese	180	2,600	2.8	90.7	NA	**85**	NA	**56.2**	NA	**31.9**
Mercury	2.3	35	0.0033	ND	NA	**0.461**	NA	**0.366**	NA	**0.345**
Nickel	150	2,200	2.6	8.4	NA	**8.21**	NA	**6.74**	NA	**5.12**
Potassium	NLE	NLE	NLE	15,400	NA	**3,720**	NA	**9,750**	NA	**7,180**
Selenium	39	580	0.052	1.9	NA	**1.38**	NA	**1.04**	NA	**1.06**
Silver	39	580	0.08	1.1	NA	< 1.006	NA	< 0.548	NA	< 0.663
Sodium	NLE	NLE	NLE	51.6	NA	**446**	NA	**180**	NA	**156**
Thallium	0.078	1.2	0.0014	ND	NA	< 1.006	NA	< 0.548	NA	< 0.663
Vanadium	39	580	8.6	94.1	NA	**32**	NA	**54.7**	NA	**43.5**
Zinc	2,300	35,000	37	81.4	NA	**117**	NA	**107**	NA	**38.1**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-147	FTMM02-B-148		FTMM02-B-149		FTMM02-B-15
Sample ID					FTMM02-SS-B-147-2-2	FTMM02-SS-B-148-0-1.0	FTMM02-SS-B-148-2-2	FTMM02-SS-B-149-0-1.0	FTMM02-SS-B-149-2-2	FTMM02-SS-B-15-0-1.0
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999	2/23/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 570	NA	< 600	NA	< 710	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 280	NA	< 300	NA	< 350	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 570	NA	< 600	NA	< 710	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 570	NA	< 600	NA	< 710	NA
Toluene	490,000	4,700,000	76	-	< 280	NA	< 300	NA	< 350	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**3,200**	NA	**2,900**	NA	**4,200**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 930	NA	< 820	NA	< 1500
Acenaphthene	350,000	4,500,000	550	-	NA	< 930	NA	< 820	NA	< 1500
Acenaphthylene	NLE	NLE	NLE	-	NA	< 930	NA	< 820	NA	< 1500
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 930	NA	< 820	NA	< 1500
Azobenzene	5,600	26,000	0.92	-	NA	< 930	NA	< 820	NA	< 1500
Benzo(a)anthracene	150	2,900	12	-	NA	< 930	NA	< 820	NA	< 1500
Benzo(a)pyrene	15	290	4	-	NA	< 930	NA	< 820	NA	< 1500
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 930	NA	< 820	NA	< 1500
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 930	NA	< 820	NA	< 1500
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 930	NA	< 820	NA	< 1500
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 930	NA	< 820	NA	**210 J**
Chrysene	15,000	290,000	1,200	-	NA	< 930	NA	< 820	NA	< 1500
Dibenz(a,h)anthracene	15	290	13	-	NA	< 930	NA	< 820	NA	< 1500
Dibenzofuran	7,200	100,000	15	-	NA	< 930	NA	< 820	NA	< 1500
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 930	NA	< 820	NA	< 1500
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**580 JB**	NA	**520 JB**	NA	**430 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 930	NA	< 820	NA	< 1500
Fluorene	230,000	3,000,000	540	-	NA	< 930	NA	< 820	NA	< 1500
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 930	NA	< 820	NA	< 1500
Naphthalene	3,800	17,000	0.54	-	NA	< 930	NA	< 820	NA	< 1500
Phenanthrene	NLE	NLE	NLE	-	NA	< 930	NA	< 820	NA	< 1500
Pyrene	170,000	2,300,000	1,300	-	NA	< 930	NA	< 820	NA	< 1500
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**11,200**	NA	**7,470**	NA	ND

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-147	FTMM02-B-148		FTMM02-B-149		FTMM02-B-15
Sample ID					FTMM02-SS-B-147-2-2	FTMM02-SS-B-148-0-1.0	FTMM02-SS-B-148-2-2	FTMM02-SS-B-149-0-1.0	FTMM02-SS-B-149-2-2	FTMM02-SS-B-15-0-1.0
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999	2/23/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	< 0.0124	NA	< 0.0125	NA	**0.113**
4,4'-DDE	1.6	6.8	0.054	-	NA	< 0.0083	NA	< 0.0083	NA	**0.072**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0228	NA	< 0.0229	NA	< 0.0263
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0103	NA	< 0.0104	NA	< 0.012
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0103	NA	< 0.0104	NA	**0.03**
Endrin	1.8	25	0.0092	-	NA	< 0.0103	NA	< 0.0104	NA	< 0.012
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0083	NA	< 0.0083	NA	< 0.0096
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0103	NA	< 0.0104	NA	< 0.012
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3311	NA	< 0.3335	NA	< 0.3831
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1325	NA	< 0.1334	NA	< 0.1532
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0828	NA	< 0.0834	NA	< 0.0958
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0745	NA	< 0.075	NA	< 0.0862
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**5,030**	NA	**7,100**	NA	**17,400**
Antimony	3.1	47	0.035	ND	NA	**0.681**	NA	**3.21**	NA	**2.04**
Arsenic	0.67	3	0.0015	22.9	NA	**4.28**	NA	**27.4**	NA	**22.5**
Barium	1,500	22,000	16	32.3	NA	**19.2**	NA	**453**	NA	**198**
Beryllium	16	230	1.9	2	NA	**0.291**	NA	**0.769**	NA	**2.67**
Cadmium	7	98	0.069	ND	NA	**0.735**	NA	**2.53**	NA	**4.17**
Calcium	NLE	NLE	NLE	921	NA	**317**	NA	**4,200**	NA	**1,830**
Chromium	12,000	180,000	4,000,000	269	NA	**32.3**	NA	**67.6**	NA	**182**
Cobalt	2.3	35	0.027	2.5	NA	**1.1**	NA	**3.28**	NA	**8.88**
Copper	310	4,700	2.8	8	NA	**6.29**	NA	**266**	NA	**391**
Iron	5,500	82,000	35	55,800	NA	**13,400**	NA	**20,300**	NA	**74,600**
Lead	400	800	NLE	19.5	NA	**7.38**	NA	**189**	NA	**187**
Magnesium	NLE	NLE	NLE	7,230	NA	**766**	NA	**1,900**	NA	**4,490**
Manganese	180	2,600	2.8	90.7	NA	**50.1**	NA	**4,680**	NA	**242**
Mercury	2.3	35	0.0033	ND	NA	**0.249**	NA	**1.686**	NA	**4.73**
Nickel	150	2,200	2.6	8.4	NA	**3.03**	NA	**7.94**	NA	**32.8**
Potassium	NLE	NLE	NLE	15,400	NA	**1,660**	NA	**2,240**	NA	**8,990**
Selenium	39	580	0.052	1.9	NA	**1.05**	NA	**1.82**	NA	**2.53**
Silver	39	580	0.08	1.1	NA	< 0.631	NA	**0.63**	NA	< 0.904
Sodium	NLE	NLE	NLE	51.6	NA	**393**	NA	**122**	NA	**164**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.631	NA	< 0.577	NA	< 0.904
Vanadium	39	580	8.6	94.1	NA	**28.9**	NA	**28.1**	NA	**91.5**
Zinc	2,300	35,000	37	81.4	NA	**25**	NA	**4,510**	NA	**605**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-15	FTMM02-B-150		FTMM02-B-151	
Sample ID					FTMM02-SS-B-15-2-2	FTMM02-SS-B-150-0-1.0	FTMM02-SS-B-150-2-2	FTMM02-SS-B-151-0-1.0	FTMM02-SS-B-151-2-2
Sample Date					2/23/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	< 590	NA	< 620	NA	< 760
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 300	NA	< 310	NA	< 380
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 590	NA	< 620	NA	< 760
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 590	NA	< 620	NA	< 760
Toluene	490,000	4,700,000	76	-	< 300	NA	< 310	NA	< 380
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	**3,600**	NA	**3,500**
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1300	NA
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1300	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1300	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	**170 J**	NA
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1300	NA
Benzo(a)anthracene	150	2,900	12	-	NA	**130 J**	NA	**360 J**	NA
Benzo(a)pyrene	15	290	4	-	NA	**130 J**	NA	**330 J**	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	**140 J**	NA	**320 J**	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1300	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**110 J**	NA	**310 J**	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1100	NA	**180 J**	NA
Chrysene	15,000	290,000	1,200	-	NA	**260 J**	NA	**620 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1300	NA
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1300	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1300	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**820 JB**	NA	**830 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	**200 J**	NA	**840 J**	NA
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1300	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	**180 J**	NA
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1300	NA
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	**650 J**	NA
Pyrene	170,000	2,300,000	1,300	-	NA	**180 J**	NA	**610 J**	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**19,120**	NA	**12,740**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-15	FTMM02-B-150		FTMM02-B-151	
Sample ID					FTMM02-SS-B-15-2-2	FTMM02-SS-B-150-0-1.0	FTMM02-SS-B-150-2-2	FTMM02-SS-B-151-0-1.0	FTMM02-SS-B-151-2-2
Sample Date					2/23/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.135**	NA	**0.045**	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.074**	NA	**0.039**	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.141**	NA	**0.033**	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	**0.013**	NA
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0111	NA	< 0.0117	NA
Endrin	1.8	25	0.0092	-	NA	< 0.0111	NA	< 0.0117	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0089	NA	< 0.0094	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	**0.016**	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3556	NA	< 0.3752	NA
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1423	NA	< 0.1501	NA
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0889	NA	< 0.0938	NA
Aroclor-1260	0.24	1	0.027	-	NA	< 0.08	NA	< 0.0844	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	**12,400**	NA	**9,880**	NA
Antimony	3.1	47	0.035	ND	NA	**1.13**	NA	**0.99**	NA
Arsenic	0.67	3	0.0015	22.9	NA	**9.48**	NA	**7.41**	NA
Barium	1,500	22,000	16	32.3	NA	**51.7**	NA	**78.4**	NA
Beryllium	16	230	1.9	2	NA	**1.23**	NA	**0.641**	NA
Cadmium	7	98	0.069	ND	NA	**0.724**	NA	**1.15**	NA
Calcium	NLE	NLE	NLE	921	NA	**769**	NA	**1,940**	NA
Chromium	12,000	180,000	4,000,000	269	NA	**135**	NA	**65.5**	NA
Cobalt	2.3	35	0.027	2.5	NA	**1.58**	NA	**1.94**	NA
Copper	310	4,700	2.8	8	NA	**13.1**	NA	**14.8**	NA
Iron	5,500	82,000	35	55,800	NA	**37,500**	NA	**19,500**	NA
Lead	400	800	NLE	19.5	NA	**26.5**	NA	**61**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**3,660**	NA	**2,450**	NA
Manganese	180	2,600	2.8	90.7	NA	**16.2**	NA	**82.6**	NA
Mercury	2.3	35	0.0033	ND	NA	**0.538**	NA	**1.396**	NA
Nickel	150	2,200	2.6	8.4	NA	**7.28**	NA	**6.14**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**8,250**	NA	**3,750**	NA
Selenium	39	580	0.052	1.9	NA	**1.5**	NA	**0.928**	NA
Silver	39	580	0.08	1.1	NA	< 0.667	NA	< 0.707	NA
Sodium	NLE	NLE	NLE	51.6	NA	**116**	NA	**218**	NA
Thallium	0.078	1.2	0.0014	ND	NA	< 0.667	NA	< 0.707	NA
Vanadium	39	580	8.6	94.1	NA	**84.4**	NA	**38**	NA
Zinc	2,300	35,000	37	81.4	NA	**57.2**	NA	**68.5**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-152		FTMM02-B-153		FTMM02-B-154	
Sample ID					FTMM02-SS-B-152-0-1.0	FTMM02-SS-B-152-2-2	FTMM02-SS-B-153-0-1.0	FTMM02-SS-B-153-2-2	FTMM02-SS-B-154-0-1.0	FTMM02-SS-B-154-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 600	NA	< 580	NA	< 560
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 300	NA	< 290	NA	< 280
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 600	NA	< 580	NA	< 560
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 600	NA	< 580	NA	< 560
Toluene	490,000	4,700,000	76	-	NA	< 300	NA	< 290	NA	< 280
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,700**	NA	**4,200**	NA	**3,400**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 970	NA	< 1400	NA	< 950	NA
Acenaphthene	350,000	4,500,000	550	-	**260 J**	NA	< 1400	NA	< 950	NA
Acenaphthylene	NLE	NLE	NLE	-	< 970	NA	< 1400	NA	< 950	NA
Anthracene	1,700,000	23,000,000	5,800	-	**990**	NA	< 1400	NA	< 950	NA
Azobenzene	5,600	26,000	0.92	-	< 970	NA	< 1400	NA	< 950	NA
Benzo(a)anthracene	150	2,900	12	-	**2,400**	NA	< 1400	NA	**130 J**	NA
Benzo(a)pyrene	15	290	4	-	**1,900**	NA	< 1400	NA	**140 J**	NA
Benzo(b)fluoranthene	150	2,900	41	-	**1,900**	NA	< 1400	NA	**170 J**	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	**1,000**	NA	< 1400	NA	< 950	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**1,300**	NA	< 1400	NA	**120 J**	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 970	NA	< 1400	NA	**350 J**	NA
Chrysene	15,000	290,000	1,200	-	**3,700**	NA	< 1400	NA	**280 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	**280 J**	NA	< 1400	NA	< 950	NA
Dibenzofuran	7,200	100,000	15	-	**140 J**	NA	< 1400	NA	< 950	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 970	NA	< 1400	NA	< 950	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**650 JB**	NA	**900 JB**	NA	**760 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**6,200**	NA	**180 J**	NA	**270 J**	NA
Fluorene	230,000	3,000,000	540	-	**310 J**	NA	< 1400	NA	< 950	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	**1,100**	NA	< 1400	NA	< 950	NA
Naphthalene	3,800	17,000	0.54	-	< 970	NA	< 1400	NA	< 950	NA
Phenanthrene	NLE	NLE	NLE	-	**4,100**	NA	< 1400	NA	**170 J**	NA
Pyrene	170,000	2,300,000	1,300	-	**4,400**	NA	**160 J**	NA	**290 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**13,430**	NA	**21,300**	NA	**1,700**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-152		FTMM02-B-153		FTMM02-B-154	
Sample ID					FTMM02-SS-B-152-0-1.0	FTMM02-SS-B-152-2-2	FTMM02-SS-B-153-0-1.0	FTMM02-SS-B-153-2-2	FTMM02-SS-B-154-0-1.0	FTMM02-SS-B-154-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.087**	NA	**0.153**	NA	**0.13**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.049**	NA	**0.112**	NA	**0.047**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.029**	NA	**0.044**	NA	**0.033**	NA
Alpha-Chlordane	1.8	8	0.015	-	**0.018**	NA	**0.017**	NA	**0.016**	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0117	NA	< 0.0132	NA	< 0.0111	NA
Endrin	1.8	25	0.0092	-	< 0.0117	NA	< 0.0132	NA	< 0.0111	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0094	NA	< 0.0106	NA	< 0.0089	NA
Gamma-Chlordane	1.8	8	0.015	-	**0.025**	NA	**0.027**	NA	**0.017**	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3747	NA	< 0.1059	NA	< 0.3561	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1499	NA	< 0.0424	NA	< 0.1424	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0937	NA	< 0.0265	NA	< 0.089	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0843	NA	< 0.0238	NA	< 0.0801	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**9,750**	NA	**14,200**	NA	**6,460**	NA
Antimony	3.1	47	0.035	ND	**0.875**	NA	**2.03**	NA	**0.851**	NA
Arsenic	0.67	3	0.0015	22.9	**6.16**	NA	**14.3**	NA	**6.04**	NA
Barium	1,500	22,000	16	32.3	**35.7**	NA	**81.2**	NA	**26.5**	NA
Beryllium	16	230	1.9	2	**0.671**	NA	**1.48**	NA	**0.587**	NA
Cadmium	7	98	0.069	ND	**0.544**	NA	**1**	NA	**0.882**	NA
Calcium	NLE	NLE	NLE	921	**1,920**	NA	**3,310**	NA	**1,980**	NA
Chromium	12,000	180,000	4,000,000	269	**71.5**	NA	**153**	NA	**53.1**	NA
Cobalt	2.3	35	0.027	2.5	**2.85**	NA	**3.1**	NA	**1.83**	NA
Copper	310	4,700	2.8	8	**31.8**	NA	**32.3**	NA	**14.8**	NA
Iron	5,500	82,000	35	55,800	**21,700**	NA	**42,500**	NA	**18,800**	NA
Lead	400	800	NLE	19.5	**50.7**	NA	**190**	NA	**30.8**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,600**	NA	**5,730**	NA	**2,370**	NA
Manganese	180	2,600	2.8	90.7	**186**	NA	**177**	NA	**62.4**	NA
Mercury	2.3	35	0.0033	ND	**0.398**	NA	**0.371**	NA	**0.8**	NA
Nickel	150	2,200	2.6	8.4	**7.49**	NA	**9.65**	NA	**6.3**	NA
Potassium	NLE	NLE	NLE	15,400	**3,700**	NA	**12,400**	NA	**4,200**	NA
Selenium	39	580	0.052	1.9	**1.32**	NA	**1.67**	NA	**0.698**	NA
Silver	39	580	0.08	1.1	< 0.68	NA	< 0.753	NA	< 0.618	NA
Sodium	NLE	NLE	NLE	51.6	**183**	NA	**381**	NA	**692**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.68	NA	< 0.753	NA	< 0.618	NA
Vanadium	39	580	8.6	94.1	**41.5**	NA	**52.4**	NA	**30.5**	NA
Zinc	2,300	35,000	37	81.4	**88**	NA	**217**	NA	**68.7**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-155		FTMM02-B-156		FTMM02-B-157	
Sample ID					FTMM02-SS-B-155-0-1.0	FTMM02-SS-B-155-2-2	FTMM02-SS-B-156-0-1.0	FTMM02-SS-B-156-2-2	FTMM02-SS-B-157-0-1.0	FTMM02-SS-B-157-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 530	NA	< 580	NA	< 600
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 270	NA	< 290	NA	< 300
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 530	NA	< 580	NA	< 600
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 530	NA	< 580	NA	< 600
Toluene	490,000	4,700,000	76	-	NA	< 270	NA	< 290	NA	< 300
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**5,000**	NA	**4,300**	NA	**4,900**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 930	NA	< 1100	NA	< 970	NA
Acenaphthene	350,000	4,500,000	550	-	< 930	NA	< 1100	NA	< 970	NA
Acenaphthylene	NLE	NLE	NLE	-	< 930	NA	< 1100	NA	< 970	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 930	NA	< 1100	NA	< 970	NA
Azobenzene	5,600	26,000	0.92	-	< 930	NA	< 1100	NA	< 970	NA
Benzo(a)anthracene	150	2,900	12	-	< 930	NA	< 1100	NA	< 970	NA
Benzo(a)pyrene	15	290	4	-	< 930	NA	< 1100	NA	**99 J**	NA
Benzo(b)fluoranthene	150	2,900	41	-	< 930	NA	< 1100	NA	< 970	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 930	NA	< 1100	NA	< 970	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 930	NA	< 1100	NA	< 970	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 930	NA	< 1100	NA	< 970	NA
Chrysene	15,000	290,000	1,200	-	< 930	NA	< 1100	NA	**170 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	< 930	NA	< 1100	NA	< 970	NA
Dibenzofuran	7,200	100,000	15	-	< 930	NA	< 1100	NA	< 970	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 930	NA	< 1100	NA	< 970	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**640 JB**	NA	< 1100	NA	**1,000 B**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**120 J**	NA	< 1100	NA	**150 J**	NA
Fluorene	230,000	3,000,000	540	-	< 930	NA	< 1100	NA	< 970	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 930	NA	< 1100	NA	< 970	NA
Naphthalene	3,800	17,000	0.54	-	< 930	NA	< 1100	NA	< 970	NA
Phenanthrene	NLE	NLE	NLE	-	< 930	NA	< 1100	NA	< 970	NA
Pyrene	170,000	2,300,000	1,300	-	**130 J**	NA	< 1100	NA	**130 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**29,880**	NA	**14,910**	NA	**16,330**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-155		FTMM02-B-156		FTMM02-B-157	
Sample ID					FTMM02-SS-B-155-0-1.0	FTMM02-SS-B-155-2-2	FTMM02-SS-B-156-0-1.0	FTMM02-SS-B-156-2-2	FTMM02-SS-B-157-0-1.0	FTMM02-SS-B-157-2-2
Sample Date					5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999	5/11/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.076**	NA	**1.163**	NA	**0.675**	NA
4,4'-DDE	1.6	6.8	0.054	-	< 0.0086	NA	**0.336**	NA	**0.257**	NA
4,4'-DDT	1.9	8.6	0.077	-	< 0.0236	NA	**1.163**	NA	**0.741**	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0107	NA	< 0.0115	NA	< 0.011	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0107	NA	**0.068**	NA	< 0.011	NA
Endrin	1.8	25	0.0092	-	< 0.0107	NA	< 0.0115	NA	< 0.011	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0086	NA	< 0.0092	NA	< 0.0088	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0107	NA	< 0.0115	NA	< 0.011	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.0172	NA	< 0.3686	NA	< 0.3521	NA
Aroclor-1248	0.24	1	0.006	-	< 0.0069	NA	< 0.1474	NA	< 0.1409	NA
Aroclor-1254	0.11	1	0.01	-	**1.672**	NA	< 0.0921	NA	< 0.088	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0039	NA	< 0.0829	NA	< 0.0792	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**10,200**	NA	**15,000**	NA	**12,100**	NA
Antimony	3.1	47	0.035	ND	**2.57**	NA	**0.863**	NA	**1.54**	NA
Arsenic	0.67	3	0.0015	22.9	**67.1**	NA	**15.1**	NA	**9.62**	NA
Barium	1,500	22,000	16	32.3	**501**	NA	**20.8**	NA	**33.6**	NA
Beryllium	16	230	1.9	2	**1.34**	NA	**2**	NA	**1.18**	NA
Cadmium	7	98	0.069	ND	**1.29**	NA	**1.52**	NA	**0.472**	NA
Calcium	NLE	NLE	NLE	921	**3,390**	NA	**501**	NA	**1,050**	NA
Chromium	12,000	180,000	4,000,000	269	**81.9**	NA	**153**	NA	**90.8**	NA
Cobalt	2.3	35	0.027	2.5	**4.46**	NA	**2.88**	NA	**2.86**	NA
Copper	310	4,700	2.8	8	**87.8**	NA	**5.62**	NA	**41.7**	NA
Iron	5,500	82,000	35	55,800	**32,800**	NA	**57,100**	NA	**31,600**	NA
Lead	400	800	NLE	19.5	**88.2**	NA	**11.2**	NA	**39**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,760**	NA	**6,300**	NA	**3,590**	NA
Manganese	180	2,600	2.8	90.7	**1,080**	NA	**44.2**	NA	**37**	NA
Mercury	2.3	35	0.0033	ND	**0.756**	NA	**0.46**	NA	**1.214**	NA
Nickel	150	2,200	2.6	8.4	**11.4**	NA	**10.4**	NA	**9.45**	NA
Potassium	NLE	NLE	NLE	15,400	**5,070**	NA	**16,900**	NA	**6,990**	NA
Selenium	39	580	0.052	1.9	**1.9**	NA	**2.06**	NA	**1.82**	NA
Silver	39	580	0.08	1.1	< 0.608	NA	< 0.673	NA	< 0.638	NA
Sodium	NLE	NLE	NLE	51.6	**447**	NA	**115**	NA	**130**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.608	NA	< 0.673	NA	< 0.638	NA
Vanadium	39	580	8.6	94.1	**42.7**	NA	**39.4**	NA	**52.7**	NA
Zinc	2,300	35,000	37	81.4	**532**	NA	**72.9**	NA	**63.3**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-158		FTMM02-B-159		FTMM02-B-160	
Sample ID					FTMM02-SS-B-158-0-1.0	FTMM02-SS-B-158-2-2	FTMM02-SS-B-159-0-1.0	FTMM02-SS-B-159-2-2	FTMM02-SS-B-160-0-1.0	FTMM02-SS-B-160-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 630	NA	< 780	NA	< 590
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 320	NA	< 390	NA	< 290
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 630	NA	< 780	NA	< 590
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 630	NA	< 780	NA	< 590
Toluene	490,000	4,700,000	76	-	NA	< 320	NA	< 390	NA	< 290
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1400	NA	< 1300	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1400	NA	< 1300	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1400	NA	< 1300	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	**310 J**	NA	< 1300	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1400	NA	< 1300	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	**980 J**	NA	**330 J**	NA	**190 J**	NA
Benzo(a)pyrene	15	290	4	-	**840 J**	NA	**310 J**	NA	**170 J**	NA
Benzo(b)fluoranthene	150	2,900	41	-	**850 J**	NA	**310 J**	NA	**160 J**	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	**460 J**	NA	< 1300	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**630 J**	NA	**240 J**	NA	**130 J**	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**200 J**	NA	**130 J**	NA	**120 J**	NA
Chrysene	15,000	290,000	1,200	-	**1,400**	NA	**550 J**	NA	**320 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1400	NA	< 1300	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1400	NA	< 1300	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1400	NA	< 1300	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**210 JB**	NA	**150 JB**	NA	**450 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**2,600**	NA	**670 J**	NA	**390 J**	NA
Fluorene	230,000	3,000,000	540	-	< 1400	NA	< 1300	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	**500 J**	NA	< 1300	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1400	NA	< 1300	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	**1,200 J**	NA	**280 J**	NA	**210 J**	NA
Pyrene	170,000	2,300,000	1,300	-	**1,800**	NA	**510 J**	NA	**340 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**32,250**	NA	**31,230**	NA	**15,640**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-158		FTMM02-B-159		FTMM02-B-160	
Sample ID					FTMM02-SS-B-158-0-1.0	FTMM02-SS-B-158-2-2	FTMM02-SS-B-159-0-1.0	FTMM02-SS-B-159-2-2	FTMM02-SS-B-160-0-1.0	FTMM02-SS-B-160-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.027**	NA	**0.029**	NA	**0.028**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.086**	NA	**0.051**	NA	**0.023**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.085**	NA	< 0.028	NA	< 0.0244	NA
Alpha-Chlordane	1.8	8	0.015	-	**0.017**	NA	**0.015**	NA	**0.011**	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0136	NA	< 0.0127	NA	< 0.0111	NA
Endrin	1.8	25	0.0092	-	< 0.0136	NA	< 0.0127	NA	< 0.0111	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0109	NA	< 0.0102	NA	< 0.0089	NA
Gamma-Chlordane	1.8	8	0.015	-	**0.015**	NA	**0.013**	NA	**0.015**	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.109	NA	< 0.1019	NA	< 0.3542	NA
Aroclor-1248	0.24	1	0.006	-	< 0.436	NA	< 0.0408	NA	< 0.1417	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0272	NA	< 0.0255	NA	< 0.0886	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0245	NA	< 0.0229	NA	< 0.0797	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**8,310**	NA	**6,430**	NA	**4,760**	NA
Antimony	3.1	47	0.035	ND	< 0.569	NA	< 0.554	NA	< 0.362	NA
Arsenic	0.67	3	0.0015	22.9	**9.26**	NA	**6.63**	NA	**4.64**	NA
Barium	1,500	22,000	16	32.3	**56.5**	NA	**38.8**	NA	**23.3**	NA
Beryllium	16	230	1.9	2	**0.758**	NA	**0.663**	NA	**0.343**	NA
Cadmium	7	98	0.069	ND	**0.831**	NA	**0.477**	NA	**0.352**	NA
Calcium	NLE	NLE	NLE	921	**4,000**	NA	**3,630**	NA	**1,120**	NA
Chromium	12,000	180,000	4,000,000	269	**69.2**	NA	**46.2**	NA	**26.9**	NA
Cobalt	2.3	35	0.027	2.5	**2.87**	NA	**3.61**	NA	**1.65**	NA
Copper	310	4,700	2.8	8	**26.6**	NA	**40.4**	NA	**16.6**	NA
Iron	5,500	82,000	35	55,800	**21,700**	NA	**16,400**	NA	**11,800**	NA
Lead	400	800	NLE	19.5	**81.8**	NA	**93.5**	NA	**37.5**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,350**	NA	**1,660**	NA	**950**	NA
Manganese	180	2,600	2.8	90.7	**133**	NA	**81.6**	NA	**61**	NA
Mercury	2.3	35	0.0033	ND	**0.059**	NA	**0.147**	NA	**0.16**	NA
Nickel	150	2,200	2.6	8.4	**11.4**	NA	**14.8**	NA	**4.98**	NA
Potassium	NLE	NLE	NLE	15,400	**4,760**	NA	**2,670**	NA	**1,270**	NA
Selenium	39	580	0.052	1.9	**1.19**	NA	**1.18**	NA	**0.665**	NA
Silver	39	580	0.08	1.1	< 0.854	NA	< 0.832	NA	< 0.544	NA
Sodium	NLE	NLE	NLE	51.6	**206**	NA	**139**	NA	**94.5**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.854	NA	< 0.832	NA	< 0.544	NA
Vanadium	39	580	8.6	94.1	**30.8**	NA	**22.9**	NA	**19.6**	NA
Zinc	2,300	35,000	37	81.4	**161**	NA	**202**	NA	**61.6**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-161		FTMM02-B-162		FTMM02-B-163	
Sample ID					FTMM02-SS-B-161-0-1.0	FTMM02-SS-B-161-2-2	FTMM02-SS-B-162-0-1.0	FTMM02-SS-B-162-2-2	FTMM02-SS-B-163-0-1.0	FTMM02-SS-B-163-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 600	NA	< 580	NA	< 590
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 300	NA	< 290	NA	< 300
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 600	NA	< 580	NA	< 590
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 600	NA	< 580	NA	< 590
Toluene	490,000	4,700,000	76	-	NA	< 300	NA	< 290	NA	< 300
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	**370 J**	NA	**200 J**	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	**550 J**	NA	**200 J**	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	**490 J**	NA	**200 J**	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	**290 J**	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**400 J**	NA	**160 J**	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**120 J**	NA	**150 J**	NA	**150 J**	NA
Chrysene	15,000	290,000	1,200	-	**780 J**	NA	**360 J**	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**560 JB**	NA	**590 JB**	NA	**810 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**620 J**	NA	**400 J**	NA	< 1100	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	**290 J**	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	**390 J**	NA	**250 J**	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	**580 J**	NA	**420 J**	NA	< 1100	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**6,620**	NA	**33,180**	NA	**19,570**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-161		FTMM02-B-162		FTMM02-B-163	
Sample ID					FTMM02-SS-B-161-0-1.0	FTMM02-SS-B-161-2-2	FTMM02-SS-B-162-0-1.0	FTMM02-SS-B-162-2-2	FTMM02-SS-B-163-0-1.0	FTMM02-SS-B-163-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.047**	NA	**0.043**	NA	**0.015**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.032**	NA	< 0.0087	NA	< 0.0086	NA
4,4'-DDT	1.9	8.6	0.077	-	< 0.0242	NA	< 0.0238	NA	< 0.0235	NA
Alpha-Chlordane	1.8	8	0.015	-	**0.013**	NA	< 0.0108	NA	< 0.0107	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.011	NA	< 0.0108	NA	< 0.0107	NA
Endrin	1.8	25	0.0092	-	< 0.011	NA	< 0.0108	NA	< 0.0107	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0088	NA	< 0.0087	NA	< 0.0086	NA
Gamma-Chlordane	1.8	8	0.015	-	**0.015**	NA	< 0.0108	NA	< 0.0107	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3527	NA	< 0.173	NA	< 0.3425	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1411	NA	< 0.0069	NA	< 0.137	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0882	NA	**1.929**	NA	< 0.0856	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0793	NA	< 0.0039	NA	< 0.0771	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**5,590**	NA	**9,010**	NA	**12,000**	NA
Antimony	3.1	47	0.035	ND	**0.612**	NA	**1.06**	NA	**0.553**	NA
Arsenic	0.67	3	0.0015	22.9	**4.64**	NA	**6.92**	NA	**10.6**	NA
Barium	1,500	22,000	16	32.3	**49.5**	NA	**31.3**	NA	**39.4**	NA
Beryllium	16	230	1.9	2	**0.368**	NA	**0.696**	NA	**0.918**	NA
Cadmium	7	98	0.069	ND	**0.465**	NA	**0.666**	NA	**0.478**	NA
Calcium	NLE	NLE	NLE	921	**1,170**	NA	**1,650**	NA	**1,610**	NA
Chromium	12,000	180,000	4,000,000	269	**27.6**	NA	**68**	NA	**63.4**	NA
Cobalt	2.3	35	0.027	2.5	**1.54**	NA	**2.4**	NA	**3.31**	NA
Copper	310	4,700	2.8	8	**17.2**	NA	**70.2**	NA	**6.94**	NA
Iron	5,500	82,000	35	55,800	**11,500**	NA	**22,700**	NA	**28,500**	NA
Lead	400	800	NLE	19.5	**58.8**	NA	**40.6**	NA	**20.8**	NA
Magnesium	NLE	NLE	NLE	7,230	**979**	NA	**2,260**	NA	**2,600**	NA
Manganese	180	2,600	2.8	90.7	**63.9**	NA	**78.6**	NA	**87.9**	NA
Mercury	2.3	35	0.0033	ND	**0.193**	NA	**0.255**	NA	**0.285**	NA
Nickel	150	2,200	2.6	8.4	**5.23**	NA	**7.37**	NA	**9.39**	NA
Potassium	NLE	NLE	NLE	15,400	**1,350**	NA	**4,300**	NA	**5,840**	NA
Selenium	39	580	0.052	1.9	**0.869**	NA	**1.26**	NA	**0.915**	NA
Silver	39	580	0.08	1.1	< 0.64	NA	< 0.651	NA	< 0.647	NA
Sodium	NLE	NLE	NLE	51.6	**125**	NA	**571**	NA	**191**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.64	NA	< 0.651	NA	< 0.647	NA
Vanadium	39	580	8.6	94.1	**20.7**	NA	**50**	NA	**45.4**	NA
Zinc	2,300	35,000	37	81.4	**114**	NA	**182**	NA	**90.1**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-164		FTMM02-B-165		FTMM02-B-166	
Sample ID					FTMM02-SS-B-164-0-1.0	FTMM02-SS-B-164-2-2	FTMM02-SS-B-165-0-1.0	FTMM02-SS-B-165-2-2	FTMM02-SS-B-166-0-1.0	FTMM02-SS-B-166-0-1.0-Dup
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 530	NA	< 590	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 270	NA	< 290	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 530	NA	< 590	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 530	NA	< 590	NA	NA
Toluene	490,000	4,700,000	76	-	NA	< 270	NA	< 290	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**2,700**	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1200	NA	< 1300	< 1400
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1200	NA	< 1300	< 1400
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	< 1300	< 1400
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1200	NA	< 1300	< 1400
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1200	NA	< 1300	< 1400
Benzo(a)anthracene	150	2,900	12	-	**190 J**	NA	< 1200	NA	**180 J**	**270 J**
Benzo(a)pyrene	15	290	4	-	**190 J**	NA	< 1200	NA	< 1300	**230 J**
Benzo(b)fluoranthene	150	2,900	41	-	**190 J**	NA	< 1200	NA	**200 J**	**250 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	**150 J**	NA	< 1200	NA	< 1300	< 1400
Benzo(k)fluoranthene	1,500	29,000	400	-	**160 J**	NA	< 1200	NA	**170 J**	**170 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**120 J**	NA	< 1200	NA	**190 J**	< 1400
Chrysene	15,000	290,000	1,200	-	**390 J**	NA	< 1200	NA	**330 J**	**460 J**
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1200	NA	< 1300	< 1400
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1200	NA	< 1300	< 1400
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1200	NA	< 1300	< 1400
Di-n-butylphthalate	620,000	8,200,000	230	-	**600 JB**	NA	**580 JB**	NA	**680 JB**	< 1400
Fluoranthene	230,000	3,000,000	8,900	-	**250 J**	NA	< 1200	NA	**340 J**	**530 J**
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1200	NA	< 1300	< 1400
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	**130 J**	NA	< 1200	NA	< 1300	< 1400
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1200	NA	< 1300	< 1400
Phenanthrene	NLE	NLE	NLE	-	< 1100	NA	< 1200	NA	**130 J**	**210 J**
Pyrene	170,000	2,300,000	1,300	-	**260 J**	NA	< 1200	NA	**300 J**	**450 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**27,290**	NA	**31,050**	NA	**26,610**	**20,470**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-164		FTMM02-B-165		FTMM02-B-166	
Sample ID					FTMM02-SS-B-164-0-1.0	FTMM02-SS-B-164-2-2	FTMM02-SS-B-165-0-1.0	FTMM02-SS-B-165-2-2	FTMM02-SS-B-166-0-1.0	FTMM02-SS-B-166-0-1.0-Dup
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.048**	NA	**0.105**	NA	**0.037**	**0.032**
4,4'-DDE	1.6	6.8	0.054	-	**0.042**	NA	< 0.0092	NA	**0.079**	**0.058**
4,4'-DDT	1.9	8.6	0.077	-	**0.037**	NA	**0.056**	NA	**0.036**	< 0.0303
Alpha-Chlordane	1.8	8	0.015	-	< 0.0111	NA	< 0.0115	NA	**0.017**	< 0.0138
Dieldrin	0.033	0.14	0.000069	-	< 0.0111	NA	< 0.0115	NA	**0.028**	< 0.0138
Endrin	1.8	25	0.0092	-	< 0.0111	NA	< 0.0115	NA	< 0.0129	< 0.0138
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0089	NA	< 0.0092	NA	< 0.0103	< 0.011
Gamma-Chlordane	1.8	8	0.015	-	< 0.0111	NA	< 0.0115	NA	< 0.0129	< 0.0138
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3547	NA	< 0.0183	NA	< 0.1028	< 0.1101
Aroclor-1248	0.24	1	0.006	-	< 0.1419	NA	**3.082**	NA	< 0.0411	< 0.044
Aroclor-1254	0.11	1	0.01	-	< 0.0887	NA	< 0.0046	NA	< 0.0257	< 0.0275
Aroclor-1260	0.24	1	0.027	-	< 0.0798	NA	< 0.0041	NA	< 0.0231	< 0.0248
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**14,000**	NA	**9,650**	NA	**11,800**	**12,600**
Antimony	3.1	47	0.035	ND	**1.17**	NA	**8.45**	NA	**1.57**	**1.28**
Arsenic	0.67	3	0.0015	22.9	**11.2**	NA	**9.32**	NA	**13.9**	**10.4**
Barium	1,500	22,000	16	32.3	**51.5**	NA	**39.1**	NA	**57**	**53.9**
Beryllium	16	230	1.9	2	**1.22**	NA	**1.01**	NA	**1.12**	**1.03**
Cadmium	7	98	0.069	ND	**0.922**	NA	**1.24**	NA	**1.11**	**0.978**
Calcium	NLE	NLE	NLE	921	**908**	NA	**1,440**	NA	**3,300**	**3,080**
Chromium	12,000	180,000	4,000,000	269	**122**	NA	**87.5**	NA	**120**	**112**
Cobalt	2.3	35	0.027	2.5	**2.12**	NA	**5.22**	NA	**3.41**	**3.53**
Copper	310	4,700	2.8	8	**49.6**	NA	**90**	NA	**26.3**	**30**
Iron	5,500	82,000	35	55,800	**33,500**	NA	**27,500**	NA	**29,200**	**27,200**
Lead	400	800	NLE	19.5	**39.1**	NA	**63.3**	NA	**170**	**71.1**
Magnesium	NLE	NLE	NLE	7,230	**4,090**	NA	**2,900**	NA	**3,420**	**3,210**
Manganese	180	2,600	2.8	90.7	**45.5**	NA	**180**	NA	**141**	**122**
Mercury	2.3	35	0.0033	ND	**4.75**	NA	**3.85**	NA	**1.2**	**1.01**
Nickel	150	2,200	2.6	8.4	**8.24**	NA	**9.52**	NA	**13.7**	**14.8**
Potassium	NLE	NLE	NLE	15,400	**9,380**	NA	**6,530**	NA	**7,030**	**6,660**
Selenium	39	580	0.052	1.9	**1.5**	NA	**1.24**	NA	**1.32**	**1.48**
Silver	39	580	0.08	1.1	< 0.685	NA	**1.11**	NA	**2.65**	**2.55**
Sodium	NLE	NLE	NLE	51.6	**183**	NA	**126**	NA	**187**	**183**
Thallium	0.078	1.2	0.0014	ND	< 0.685	NA	< 0.528	NA	< 0.786	< 0.81
Vanadium	39	580	8.6	94.1	**63.8**	NA	**48.2**	NA	**48.7**	**50.4**
Zinc	2,300	35,000	37	81.4	**175**	NA	**444**	NA	**129**	**154**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-166		FTMM02-B-167		FTMM02-B-168	
Sample ID					FTMM02-SS-B-166-2-2	FTMM02-SS-B-166-2-2-Dup	FTMM02-SS-B-167-0-1.0	FTMM02-SS-B-167-2-2	FTMM02-SS-B-168-0-1.0	FTMM02-SS-B-168-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 580	< 570	NA	< 560	NA	< 560
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 290	< 280	NA	< 280	NA	< 280
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 580	< 570	NA	< 560	NA	< 560
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 580	< 570	NA	< 560	NA	< 560
Toluene	490,000	4,700,000	76	-	< 290	< 280	NA	< 280	NA	< 280
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**4,500**	**4,400**	NA	**5,100**	NA	**4,300**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	< 1100	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	< 1100	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	**350 JB**	NA	**300 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	**170 J**	NA	< 1100	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	< 1100	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	**170 J**	NA	< 1100	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	**21,620**	NA	**15,880**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-166		FTMM02-B-167		FTMM02-B-168	
Sample ID					FTMM02-SS-B-166-2-2	FTMM02-SS-B-166-2-2-Dup	FTMM02-SS-B-167-0-1.0	FTMM02-SS-B-167-2-2	FTMM02-SS-B-168-0-1.0	FTMM02-SS-B-168-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/14/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	**0.031**	NA	**0.037**	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	**0.019**	NA	**0.018**	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	< 0.0246	NA	**0.285**	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	< 0.0112	NA	< 0.0108	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	< 0.0112	NA	< 0.0108	NA
Endrin	1.8	25	0.0092	-	NA	NA	< 0.0112	NA	< 0.0108	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	< 0.009	NA	< 0.0087	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	< 0.0112	NA	< 0.0108	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	< 0.3581	NA	< 0.3461	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	< 0.1432	NA	< 0.1384	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	< 0.0895	NA	< 0.0865	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	< 0.0806	NA	< 0.0779	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	**12,000**	NA	**12,400**	NA
Antimony	3.1	47	0.035	ND	NA	NA	**0.82**	NA	**0.579**	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	**9.03**	NA	**6.78**	NA
Barium	1,500	22,000	16	32.3	NA	NA	**39.4**	NA	**41.1**	NA
Beryllium	16	230	1.9	2	NA	NA	**0.957**	NA	**0.654**	NA
Cadmium	7	98	0.069	ND	NA	NA	**0.568**	NA	**0.411**	NA
Calcium	NLE	NLE	NLE	921	NA	NA	**1,520**	NA	**1,390**	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	**64.5**	NA	**44.8**	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	**3.7**	NA	**2.52**	NA
Copper	310	4,700	2.8	8	NA	NA	**16.7**	NA	**11.9**	NA
Iron	5,500	82,000	35	55,800	NA	NA	**27,100**	NA	**19,800**	NA
Lead	400	800	NLE	19.5	NA	NA	**28.2**	NA	**51.5**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	**2,560**	NA	**1,950**	NA
Manganese	180	2,600	2.8	90.7	NA	NA	**87**	NA	**114**	NA
Mercury	2.3	35	0.0033	ND	NA	NA	**2.628**	NA	**0.512**	NA
Nickel	150	2,200	2.6	8.4	NA	NA	**8.92**	NA	**6.55**	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	**5,720**	NA	**3,740**	NA
Selenium	39	580	0.052	1.9	NA	NA	**1.29**	NA	< 0.564	NA
Silver	39	580	0.08	1.1	NA	NA	< 0.688	NA	< 0.564	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	**128**	NA	**205**	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	< 0.688	NA	< 0.564	NA
Vanadium	39	580	8.6	94.1	NA	NA	**44.7**	NA	**38.5**	NA
Zinc	2,300	35,000	37	81.4	NA	NA	**105**	NA	**56.4**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-169		FTMM02-B-170		FTMM02-B-171	
Sample ID					FTMM02-SS-B-169-0-1.0	FTMM02-SS-B-169-2-2	FTMM02-SS-B-170-0-1.0	FTMM02-SS-B-170-2-2	FTMM02-SS-B-171-0-1.0	FTMM02-SS-B-171-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 660	NA	< 490	NA	< 580
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 330	NA	< 240	NA	< 290
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 660	NA	< 490	NA	< 580
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 660	NA	< 490	NA	< 580
Toluene	490,000	4,700,000	76	-	NA	< 330	NA	< 240	NA	< 290
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**4,100**	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1100	NA	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**110 J**	NA	< 1100	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**700 JB**	NA	< 1100	NA	**710 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	< 1100	NA	< 1100	NA	< 1100	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	< 1100	NA	< 1100	NA	< 1100	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**34,100**	NA	**23,720**	NA	**35,620**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-169		FTMM02-B-170		FTMM02-B-171	
Sample ID					FTMM02-SS-B-169-0-1.0	FTMM02-SS-B-169-2-2	FTMM02-SS-B-170-0-1.0	FTMM02-SS-B-170-2-2	FTMM02-SS-B-171-0-1.0	FTMM02-SS-B-171-2-2
Sample Date					5/14/1999	5/14/1999	5/14/1999	5/14/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.017**	NA	< 0.0134	NA	**0.048**	NA
4,4'-DDE	1.6	6.8	0.054	-	< 0.0085	NA	< 0.0089	NA	**0.047**	NA
4,4'-DDT	1.9	8.6	0.077	-	< 0.0234	NA	< 0.0245	NA	**0.038**	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0106	NA	< 0.0112	NA	< 0.0106	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0106	NA	< 0.0112	NA	< 0.0106	NA
Endrin	1.8	25	0.0092	-	< 0.0106	NA	< 0.0112	NA	< 0.0106	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0085	NA	< 0.0089	NA	< 0.0085	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0106	NA	< 0.0112	NA	< 0.0106	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3399	NA	< 0.3569	NA	< 0.3397	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1359	NA	< 0.1428	NA	< 0.1359	NA
Aroclor-1254	0.11	1	0.01	-	< 0.085	NA	< 0.0892	NA	< 0.0849	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0765	NA	< 0.0803	NA	< 0.0764	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**10,100**	NA	**7,490**	NA	**12,200**	NA
Antimony	3.1	47	0.035	ND	< 0.427	NA	< 0.434	NA	**2.04**	NA
Arsenic	0.67	3	0.0015	22.9	**6**	NA	**5.39**	NA	**31.4**	NA
Barium	1,500	22,000	16	32.3	**33.5**	NA	**23.9**	NA	**40**	NA
Beryllium	16	230	1.9	2	**0.605**	NA	**0.441**	NA	**1.62**	NA
Cadmium	7	98	0.069	ND	**0.338**	NA	**0.288**	NA	**2.17**	NA
Calcium	NLE	NLE	NLE	921	**1,120**	NA	**1,190**	NA	**743**	NA
Chromium	12,000	180,000	4,000,000	269	**38.9**	NA	**34.5**	NA	**121**	NA
Cobalt	2.3	35	0.027	2.5	**2.93**	NA	**1.68**	NA	**3.94**	NA
Copper	310	4,700	2.8	8	**8.46**	NA	**6.49**	NA	**114**	NA
Iron	5,500	82,000	35	55,800	**16,800**	NA	**13,700**	NA	**37,900**	NA
Lead	400	800	NLE	19.5	**26**	NA	**13.3**	NA	**116**	NA
Magnesium	NLE	NLE	NLE	7,230	**1,560**	NA	**1,320**	NA	**4,090**	NA
Manganese	180	2,600	2.8	90.7	**68**	NA	**39.1**	NA	**57.1**	NA
Mercury	2.3	35	0.0033	ND	**0.399**	NA	**0.224**	NA	**0.883**	NA
Nickel	150	2,200	2.6	8.4	**5.92**	NA	**4.33**	NA	**8.64**	NA
Potassium	NLE	NLE	NLE	15,400	**2,950**	NA	**2,890**	NA	**9,360**	NA
Selenium	39	580	0.052	1.9	**0.984**	NA	< 0.651	NA	**1.59**	NA
Silver	39	580	0.08	1.1	< 0.64	NA	< 0.651	NA	**1.2**	NA
Sodium	NLE	NLE	NLE	51.6	**172**	NA	**139**	NA	**109**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.64	NA	< 0.651	NA	< 0.761	NA
Vanadium	39	580	8.6	94.1	**29.6**	NA	**23.3**	NA	**61.6**	NA
Zinc	2,300	35,000	37	81.4	**43.6**	NA	**25.3**	NA	**110**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-172		FTMM02-B-173		FTMM02-B-174	
Sample ID					FTMM02-SS-B-172-0-1.0	FTMM02-SS-B-172-2-2	FTMM02-SS-B-173-0-1.0	FTMM02-SS-B-173-2-2	FTMM02-SS-B-174-0-1.0	FTMM02-SS-B-174-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 550	NA	< 680	NA	< 580
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 280	NA	< 340	NA	< 290
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 550	NA	< 680	NA	< 580
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 550	NA	< 680	NA	< 580
Toluene	490,000	4,700,000	76	-	NA	< 280	NA	< 340	NA	< 290
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**1,200**	NA	**3,100**	NA	**2,300**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	**180 J**	NA	< 1100	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	**180 J**	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	**180 J**	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**130 J**	NA	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**540 J**	NA	< 1100	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	**330 J**	NA	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**1,200 B**	NA	**270 JB**	NA	**380 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**240 J**	NA	< 1100	NA	< 1100	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	**160 J**	NA	< 1100	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	**290 J**	NA	< 1100	NA	< 1100	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**14,870**	NA	**17,960**	NA	**34,980**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-172		FTMM02-B-173		FTMM02-B-174	
Sample ID					FTMM02-SS-B-172-0-1.0	FTMM02-SS-B-172-2-2	FTMM02-SS-B-173-0-1.0	FTMM02-SS-B-173-2-2	FTMM02-SS-B-174-0-1.0	FTMM02-SS-B-174-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.077**	NA	**0.02**	NA	< 0.0132	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.04**	NA	**0.015**	NA	**0.018**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.025**	NA	< 0.0232	NA	< 0.0242	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0108	NA	< 0.0106	NA	< 0.011	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0108	NA	< 0.0106	NA	< 0.011	NA
Endrin	1.8	25	0.0092	-	< 0.0108	NA	< 0.0106	NA	< 0.011	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0086	NA	< 0.0084	NA	< 0.0088	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0108	NA	< 0.0106	NA	< 0.011	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3345	NA	< 0.3378	NA	< 0.3514	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1378	NA	< 0.1351	NA	< 0.1406	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0861	NA	< 0.0844	NA	< 0.0879	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0775	NA	< 0.076	NA	< 0.0791	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**12,100**	NA	**6,100**	NA	**8,620**	NA
Antimony	3.1	47	0.035	ND	**1.61**	NA	**0.884**	NA	**1.02**	NA
Arsenic	0.67	3	0.0015	22.9	**11.8**	NA	**6.39**	NA	**4.73**	NA
Barium	1,500	22,000	16	32.3	**62.6**	NA	**22.6**	NA	**30.6**	NA
Beryllium	16	230	1.9	2	**1.36**	NA	**0.541**	NA	**0.596**	NA
Cadmium	7	98	0.069	ND	**2.71**	NA	**1.35**	NA	**0.866**	NA
Calcium	NLE	NLE	NLE	921	**2,220**	NA	**767**	NA	**1,090**	NA
Chromium	12,000	180,000	4,000,000	269	**121**	NA	**42.9**	NA	**50.6**	NA
Cobalt	2.3	35	0.027	2.5	**3.44**	NA	**1.54**	NA	**1.87**	NA
Copper	310	4,700	2.8	8	**53**	NA	**93.1**	NA	**18.7**	NA
Iron	5,500	82,000	35	55,800	**33,400**	NA	**15,700**	NA	**16,500**	NA
Lead	400	800	NLE	19.5	**52.5**	NA	**24.9**	NA	**46.5**	NA
Magnesium	NLE	NLE	NLE	7,230	**4,050**	NA	**1,410**	NA	**1,810**	NA
Manganese	180	2,600	2.8	90.7	**98.2**	NA	**66.1**	NA	**49.2**	NA
Mercury	2.3	35	0.0033	ND	**0.713**	NA	**0.063**	NA	< 0.022	NA
Nickel	150	2,200	2.6	8.4	**14.3**	NA	**4.1**	NA	**5.42**	NA
Potassium	NLE	NLE	NLE	15,400	**9,360**	NA	**2,560**	NA	**3,230**	NA
Selenium	39	580	0.052	1.9	**1.78**	NA	**0.85**	NA	**1.01**	NA
Silver	39	580	0.08	1.1	< 0.731	NA	< 0.743	NA	< 0.698	NA
Sodium	NLE	NLE	NLE	51.6	**249**	NA	**89.7**	NA	**126**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.731	NA	< 0.743	NA	< 0.698	NA
Vanadium	39	580	8.6	94.1	**60.1**	NA	**29.8**	NA	**35.4**	NA
Zinc	2,300	35,000	37	81.4	**228**	NA	**54.3**	NA	**64**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-175		FTMM02-B-176		FTMM02-B-177	
Sample ID					FTMM02-SS-B-175-0-1.0	FTMM02-SS-B-175-2-2	FTMM02-SS-B-176-0-1.0	FTMM02-SS-B-176-2-2	FTMM02-SS-B-177-0-1.0	FTMM02-SS-B-177-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 590	NA	< 530	NA	< 560
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 300	NA	< 260	NA	< 280
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 590	NA	< 530	NA	< 560
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 590	NA	< 530	NA	< 560
Toluene	490,000	4,700,000	76	-	NA	< 300	NA	< 260	NA	< 280
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,600**	NA	**1,400**	NA	**2,400**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	< 1100	NA	**140 J**	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1100	NA	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1100	NA	< 1100	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	< 1100	NA	**260 J**	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**690 JB**	NA	**200 JB**	NA	**1,000 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	< 1100	NA	**270 J**	NA	< 1100	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	< 1100	NA	**160 J**	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	< 1100	NA	**240 J**	NA	< 1100	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**31,970**	NA	**24,540**	NA	**21,400**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-175		FTMM02-B-176		FTMM02-B-177	
Sample ID					FTMM02-SS-B-175-0-1.0	FTMM02-SS-B-175-2-2	FTMM02-SS-B-176-0-1.0	FTMM02-SS-B-176-2-2	FTMM02-SS-B-177-0-1.0	FTMM02-SS-B-177-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.017**	NA	**0.017**	NA	**0.02**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.013**	NA	**0.014**	NA	**0.017**	NA
4,4'-DDT	1.9	8.6	0.077	-	< 0.024	NA	< 0.0241	NA	< 0.0236	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0109	NA	< 0.011	NA	< 0.0107	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0109	NA	< 0.011	NA	< 0.0107	NA
Endrin	1.8	25	0.0092	-	< 0.0109	NA	< 0.011	NA	< 0.0107	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0087	NA	< 0.0088	NA	< 0.0086	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0109	NA	**0.013**	NA	< 0.0107	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3485	NA	< 0.3506	NA	< 0.3426	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1394	NA	< 0.1402	NA	< 0.137	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0871	NA	< 0.0877	NA	< 0.0856	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0784	NA	< 0.0789	NA	< 0.0771	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**10,600**	NA	**8,970**	NA	**10,500**	NA
Antimony	3.1	47	0.035	ND	**0.51**	NA	**1.05**	NA	**1.53**	NA
Arsenic	0.67	3	0.0015	22.9	**8.21**	NA	**8.91**	NA	**7.03**	NA
Barium	1,500	22,000	16	32.3	**58.4**	NA	**39.3**	NA	**36.1**	NA
Beryllium	16	230	1.9	2	**0.694**	NA	**0.717**	NA	**0.793**	NA
Cadmium	7	98	0.069	ND	**0.995**	NA	**1.12**	NA	**1.06**	NA
Calcium	NLE	NLE	NLE	921	**1,190**	NA	**1,790**	NA	**2,040**	NA
Chromium	12,000	180,000	4,000,000	269	**37.6**	NA	**59.9**	NA	**69.4**	NA
Cobalt	2.3	35	0.027	2.5	**2.79**	NA	**2.11**	NA	**2.38**	NA
Copper	310	4,700	2.8	8	**14.3**	NA	**21**	NA	**24.1**	NA
Iron	5,500	82,000	35	55,800	**21,000**	NA	**22,800**	NA	**22,000**	NA
Lead	400	800	NLE	19.5	**126**	NA	**68.8**	NA	**61.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**1,550**	NA	**2,270**	NA	**2,460**	NA
Manganese	180	2,600	2.8	90.7	**163**	NA	**81.3**	NA	**85.4**	NA
Mercury	2.3	35	0.0033	ND	**0.144**	NA	**0.089**	NA	**0.125**	NA
Nickel	150	2,200	2.6	8.4	**8.02**	NA	**10.4**	NA	**7.65**	NA
Potassium	NLE	NLE	NLE	15,400	**2,080**	NA	**4,460**	NA	**4,760**	NA
Selenium	39	580	0.052	1.9	**0.872**	NA	**1.28**	NA	**0.908**	NA
Silver	39	580	0.08	1.1	< 0.627	NA	< 0.705	NA	< 0.673	NA
Sodium	NLE	NLE	NLE	51.6	**121**	NA	**151**	NA	**142**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.627	NA	< 0.705	NA	< 0.673	NA
Vanadium	39	580	8.6	94.1	**42.2**	NA	**40**	NA	**47.6**	NA
Zinc	2,300	35,000	37	81.4	**83.5**	NA	**75.6**	NA	**82.4**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-178		FTMM02-B-179		FTMM02-B-180	
Sample ID					FTMM02-SS-B-178-0-1.0	FTMM02-SS-B-178-2-2	FTMM02-SS-B-179-0-1.0	FTMM02-SS-B-179-2-2	FTMM02-SS-B-180-0-1.0	FTMM02-SS-B-180-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 480	NA	< 550	NA	< 690
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 240	NA	< 270	NA	< 350
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 480	NA	< 550	NA	< 690
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 480	NA	< 550	NA	< 690
Toluene	490,000	4,700,000	76	-	NA	< 240	NA	< 270	NA	< 350
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,000**	NA	**2,300**	NA	**1,800**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1100	NA	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**120 J**	NA	< 1100	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**1,200 B**	NA	**320 JB**	NA	**120 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	< 1100	NA	< 1100	NA	< 1100	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	< 1100	NA	**110 J**	NA	< 1100	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**32,330**	NA	**15,030**	NA	**24,960**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-178		FTMM02-B-179		FTMM02-B-180	
Sample ID					FTMM02-SS-B-178-0-1.0	FTMM02-SS-B-178-2-2	FTMM02-SS-B-179-0-1.0	FTMM02-SS-B-179-2-2	FTMM02-SS-B-180-0-1.0	FTMM02-SS-B-180-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.023**	NA	**0.036**	NA	**0.067**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.056**	NA	**0.055**	NA	**0.152**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.055**	NA	**0.035**	NA	**0.42**	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0116	NA	< 0.0117	NA	< 0.011	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0116	NA	< 0.0117	NA	< 0.011	NA
Endrin	1.8	25	0.0092	-	< 0.0116	NA	< 0.0117	NA	< 0.011	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0093	NA	< 0.0093	NA	< 0.0088	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0116	NA	< 0.0117	NA	< 0.011	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	**5.983**	NA	< 0.3731	NA	< 0.3535	NA
Aroclor-1248	0.24	1	0.006	-	< 0.0074	NA	< 0.1492	NA	< 0.1414	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0046	NA	< 0.0933	NA	< 0.0884	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0042	NA	< 0.0839	NA	< 0.0795	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**2,330**	NA	**2,030**	NA	**1,290**	NA
Antimony	3.1	47	0.035	ND	**1.39**	NA	**0.967**	NA	**0.827**	NA
Arsenic	0.67	3	0.0015	22.9	**5.95**	NA	**5.21**	NA	**7.52**	NA
Barium	1,500	22,000	16	32.3	**31.8**	NA	**16.2**	NA	**18.1**	NA
Beryllium	16	230	1.9	2	**0.243**	NA	**0.525**	NA	**0.218**	NA
Cadmium	7	98	0.069	ND	**1.42**	NA	**0.666**	NA	**0.797**	NA
Calcium	NLE	NLE	NLE	921	**1,050**	NA	**611**	NA	**1,500**	NA
Chromium	12,000	180,000	4,000,000	269	**16.1**	NA	**17.3**	NA	**9.21**	NA
Cobalt	2.3	35	0.027	2.5	**0.557**	NA	**0.757**	NA	**0.752**	NA
Copper	310	4,700	2.8	8	**16.8**	NA	**33.2**	NA	**26.8**	NA
Iron	5,500	82,000	35	55,800	**6,590**	NA	**7,080**	NA	**5,970**	NA
Lead	400	800	NLE	19.5	**12.7**	NA	**22.9**	NA	**21.1**	NA
Magnesium	NLE	NLE	NLE	7,230	**191**	NA	**165**	NA	**136**	NA
Manganese	180	2,600	2.8	90.7	**46.9**	NA	**19.3**	NA	**30.5**	NA
Mercury	2.3	35	0.0033	ND	< 0.024	NA	**1.9**	NA	**0.805**	NA
Nickel	150	2,200	2.6	8.4	**6.38**	NA	**2.14**	NA	**2.79**	NA
Potassium	NLE	NLE	NLE	15,400	**224**	NA	**210**	NA	**278**	NA
Selenium	39	580	0.052	1.9	< 0.746	NA	**0.816**	NA	< 0.72	NA
Silver	39	580	0.08	1.1	< 0.746	NA	< 0.642	NA	< 0.72	NA
Sodium	NLE	NLE	NLE	51.6	**82.2**	NA	**78.9**	NA	**101**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.746	NA	< 0.642	NA	< 0.72	NA
Vanadium	39	580	8.6	94.1	**13.3**	NA	**17.9**	NA	**9.45**	NA
Zinc	2,300	35,000	37	81.4	**161**	NA	**33.3**	NA	**47.1**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-181		FTMM02-B-182		FTMM02-B-183	
Sample ID					FTMM02-SS-B-181-0-1.0	FTMM02-SS-B-181-2-2	FTMM02-SS-B-182-0-1.0	FTMM02-SS-B-182-2-2	FTMM02-SS-B-183-0-1.0	FTMM02-SS-B-183-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 560	NA	< 570	NA	< 580
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 280	NA	< 290	NA	< 290
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 560	NA	< 570	NA	< 580
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 560	NA	< 570	NA	< 580
Toluene	490,000	4,700,000	76	-	NA	< 280	NA	< 290	NA	< 290
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,800**	NA	**2,800**	NA	**2,700**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1100	NA	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1100	NA	< 1100	NA	**130 J**	NA
Chrysene	15,000	290,000	1,200	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	**120 JB**	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	< 1100	NA	**230 JB**	NA	**150 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	< 1100	NA	< 1100	NA	**130 J**	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	< 1100	NA	< 1100	NA	**130 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**15,770**	NA	**11,830**	NA	**33,940**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-181		FTMM02-B-182		FTMM02-B-183	
Sample ID					FTMM02-SS-B-181-0-1.0	FTMM02-SS-B-181-2-2	FTMM02-SS-B-182-0-1.0	FTMM02-SS-B-182-2-2	FTMM02-SS-B-183-0-1.0	FTMM02-SS-B-183-2-2
Sample Date					5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999	5/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	< 0.0129	NA	< 0.0135	NA	**0.015**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.024**	NA	**0.034**	NA	**0.027**	NA
4,4'-DDT	1.9	8.6	0.077	-	< 0.0237	NA	**0.04**	NA	< 0.0235	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0108	NA	< 0.0112	NA	< 0.0107	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0108	NA	< 0.0112	NA	< 0.0107	NA
Endrin	1.8	25	0.0092	-	< 0.0108	NA	< 0.0112	NA	< 0.0107	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0086	NA	< 0.009	NA	< 0.0085	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0108	NA	< 0.0112	NA	< 0.0107	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3452	NA	< 0.359	NA	< 0.3414	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1381	NA	< 0.1436	NA	< 0.1366	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0863	NA	< 0.0897	NA	< 0.0854	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0777	NA	< 0.0808	NA	< 0.0768	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**1,470**	NA	**2,070**	NA	**1,430**	NA
Antimony	3.1	47	0.035	ND	**0.793**	NA	**0.583**	NA	**0.916**	NA
Arsenic	0.67	3	0.0015	22.9	**3.35**	NA	**9.57**	NA	**4.12**	NA
Barium	1,500	22,000	16	32.3	**13.6**	NA	**8.78**	NA	**22.7**	NA
Beryllium	16	230	1.9	2	**0.147**	NA	**0.171**	NA	**0.192**	NA
Cadmium	7	98	0.069	ND	**0.536**	NA	**0.565**	NA	**1.1**	NA
Calcium	NLE	NLE	NLE	921	**742**	NA	**357**	NA	**1,800**	NA
Chromium	12,000	180,000	4,000,000	269	**9.27**	NA	**13.7**	NA	**6.03**	NA
Cobalt	2.3	35	0.027	2.5	**0.38**	NA	**0.41**	NA	**0.733**	NA
Copper	310	4,700	2.8	8	**13**	NA	**11**	NA	**18.9**	NA
Iron	5,500	82,000	35	55,800	**3,710**	NA	**8,760**	NA	**5,690**	NA
Lead	400	800	NLE	19.5	**12.6**	NA	**9.58**	NA	**62**	NA
Magnesium	NLE	NLE	NLE	7,230	**139**	NA	**96.4**	NA	**198**	NA
Manganese	180	2,600	2.8	90.7	**17.8**	NA	**15.3**	NA	**36.3**	NA
Mercury	2.3	35	0.0033	ND	**1.11**	NA	**0.361**	NA	**0.545**	NA
Nickel	150	2,200	2.6	8.4	**1.35**	NA	**1.2**	NA	**2.91**	NA
Potassium	NLE	NLE	NLE	15,400	**134**	NA	**140**	NA	**283**	NA
Selenium	39	580	0.052	1.9	< 0.595	NA	< 0.738	NA	< 0.727	NA
Silver	39	580	0.08	1.1	< 0.595	NA	< 0.738	NA	< 0.727	NA
Sodium	NLE	NLE	NLE	51.6	**73.6**	NA	**58.8**	NA	**83.8**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.595	NA	< 0.738	NA	< 0.727	NA
Vanadium	39	580	8.6	94.1	**10**	NA	**14.2**	NA	**10.6**	NA
Zinc	2,300	35,000	37	81.4	**24.6**	NA	**18**	NA	**47.6**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-184		FTMM02-B-185		FTMM02-B-186	
Sample ID					FTMM02-SS-B-184-0-1.0	FTMM02-SS-B-184-2-2	FTMM02-SS-B-185-0-1.0	FTMM02-SS-B-185-2-2	FTMM02-SS-B-186-0-1.0	FTMM02-SS-B-186-2-2
Sample Date					5/17/1999	5/17/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 570	NA	< 530	NA	< 570
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 280	NA	< 270	NA	< 280
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 570	NA	< 530	NA	< 570
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 570	NA	< 530	NA	< 570
Toluene	490,000	4,700,000	76	-	NA	< 280	NA	< 270	NA	< 280
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,800**	NA	ND	NA	**2,040**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1000	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1000	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1000	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1000	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1000	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	< 1100	NA	< 1000	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	< 1100	NA	< 1000	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	< 1100	NA	< 1000	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	NA	< 1000	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1100	NA	< 1000	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1100	NA	< 1000	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	< 1100	NA	< 1000	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1000	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1000	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1000	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**120 JB**	NA	**200 JB**	NA	**140 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	< 1100	NA	< 1000	NA	**140 J**	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1000	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	NA	< 1000	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1000	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	< 1100	NA	< 1000	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	< 1100	NA	< 1000	NA	**170 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**22,450**	NA	**31,230**	NA	**22,520**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-184		FTMM02-B-185		FTMM02-B-186	
Sample ID					FTMM02-SS-B-184-0-1.0	FTMM02-SS-B-184-2-2	FTMM02-SS-B-185-0-1.0	FTMM02-SS-B-185-2-2	FTMM02-SS-B-186-0-1.0	FTMM02-SS-B-186-2-2
Sample Date					5/17/1999	5/17/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	< 0.0132	NA	< 0.0125	NA	**0.017**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.082**	NA	< 0.0083	NA	**0.016**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.102**	NA	< 0.0229	NA	< 0.0243	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.011	NA	< 0.0104	NA	< 0.0111	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.011	NA	< 0.0104	NA	< 0.0111	NA
Endrin	1.8	25	0.0092	-	< 0.011	NA	< 0.0104	NA	< 0.0111	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0088	NA	< 0.0083	NA	< 0.0089	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.011	NA	< 0.0104	NA	< 0.0111	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3512	NA	< 0.3333	NA	< 0.3541	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1405	NA	< 0.1333	NA	< 0.1416	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0878	NA	< 0.0833	NA	< 0.0885	NA
Aroclor-1260	0.24	1	0.027	-	< 0.079	NA	< 0.075	NA	< 0.0797	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**1,620**	NA	**1,620**	NA	**914**	NA
Antimony	3.1	47	0.035	ND	**0.402**	NA	< 0.46	NA	**0.605**	NA
Arsenic	0.67	3	0.0015	22.9	**5.91**	NA	**3.67**	NA	**8.39**	NA
Barium	1,500	22,000	16	32.3	**17.5**	NA	**11.4**	NA	**42.7**	NA
Beryllium	16	230	1.9	2	**0.194**	NA	**0.228**	NA	**0.209**	NA
Cadmium	7	98	0.069	ND	**0.626**	NA	**0.669**	NA	**0.459**	NA
Calcium	NLE	NLE	NLE	921	**969**	NA	**434**	NA	**1,180**	NA
Chromium	12,000	180,000	4,000,000	269	**11.4**	NA	**11.7**	NA	**94.3**	NA
Cobalt	2.3	35	0.027	2.5	**0.578**	NA	**0.481**	NA	**6.51**	NA
Copper	310	4,700	2.8	8	**11.5**	NA	**7.61**	NA	**17.8**	NA
Iron	5,500	82,000	35	55,800	**5,470**	NA	**6,370**	NA	**7,410**	NA
Lead	400	800	NLE	19.5	**56.3**	NA	**22.6**	NA	**18.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**212**	NA	**84.2**	NA	**2,010**	NA
Manganese	180	2,600	2.8	90.7	**39.6**	NA	**9.83**	NA	**64.8**	NA
Mercury	2.3	35	0.0033	ND	**0.965**	NA	**1.32**	NA	**1.69**	NA
Nickel	150	2,200	2.6	8.4	**1.57**	NA	**1.96**	NA	**1,760**	NA
Potassium	NLE	NLE	NLE	15,400	**189**	NA	**71.4**	NA	**623**	NA
Selenium	39	580	0.052	1.9	< 0.662	NA	< 0.69	NA	< 0.76	NA
Silver	39	580	0.08	1.1	< 0.662	NA	**11.1**	NA	< 0.76	NA
Sodium	NLE	NLE	NLE	51.6	**356**	NA	**221**	NA	**144**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.662	NA	< 0.69	NA	< 0.76	NA
Vanadium	39	580	8.6	94.1	**10**	NA	**7.99**	NA	**9.93**	NA
Zinc	2,300	35,000	37	81.4	**32.6**	NA	**23.5**	NA	**110**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-187		FTMM02-B-188		FTMM02-B-189	
Sample ID					FTMM02-SS-B-187-0-1.0	FTMM02-SS-B-187-2-2	FTMM02-SS-B-188-0-1.0	FTMM02-SS-B-188-2-2	FTMM02-SS-B-189-0-1.0	FTMM02-SS-B-189-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 620	NA	< 540	NA	< 590
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 310	NA	< 270	NA	< 290
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 620	NA	< 540	NA	< 590
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 620	NA	< 540	NA	< 590
Toluene	490,000	4,700,000	76	-	NA	< 310	NA	< 270	NA	< 290
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	**190 J**	NA	< 1100	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	**240 J**	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**170 J**	NA	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1100	NA	< 1100	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	**350 J**	NA	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**320 JB**	NA	**330 JB**	NA	**150 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**300 J**	NA	< 1100	NA	< 1100	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	**140 J**	NA	< 1100	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	**310 J**	NA	< 1100	NA	< 1100	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**32,200**	NA	**18,270**	NA	**55,440**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-187		FTMM02-B-188		FTMM02-B-189	
Sample ID					FTMM02-SS-B-187-0-1.0	FTMM02-SS-B-187-2-2	FTMM02-SS-B-188-0-1.0	FTMM02-SS-B-188-2-2	FTMM02-SS-B-189-0-1.0	FTMM02-SS-B-189-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.045**	NA	**0.08**	NA	< 0.0134	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.04**	NA	**0.029**	NA	< 0.0089	NA
4,4'-DDT	1.9	8.6	0.077	-	< 0.0242	NA	< 0.0244	NA	< 0.0246	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.011	NA	< 0.0111	NA	< 0.0112	NA
Dieldrin	0.033	0.14	0.000069	-	**0.019**	NA	< 0.0111	NA	< 0.0112	NA
Endrin	1.8	25	0.0092	-	< 0.011	NA	< 0.0111	NA	< 0.0112	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0088	NA	< 0.0089	NA	< 0.0089	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.011	NA	< 0.0111	NA	< 0.0112	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3519	NA	< 0.355	NA	< 0.3572	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1407	NA	< 0.142	NA	< 0.1429	NA
Aroclor-1254	0.11	1	0.01	-	< 0.088	NA	< 0.0887	NA	< 0.0893	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0792	NA	< 0.0799	NA	< 0.0804	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**11,800**	NA	**6,550**	NA	**9,120**	NA
Antimony	3.1	47	0.035	ND	**5.58**	NA	**0.62**	NA	**0.835**	NA
Arsenic	0.67	3	0.0015	22.9	**12.3**	NA	**5.95**	NA	**9.82**	NA
Barium	1,500	22,000	16	32.3	**122**	NA	**34.7**	NA	**56.9**	NA
Beryllium	16	230	1.9	2	**1.26**	NA	**0.606**	NA	**1.19**	NA
Cadmium	7	98	0.069	ND	**1.83**	NA	**1.35**	NA	**1.2**	NA
Calcium	NLE	NLE	NLE	921	**3,680**	NA	**2,300**	NA	**1,090**	NA
Chromium	12,000	180,000	4,000,000	269	**129**	NA	**60**	NA	**135**	NA
Cobalt	2.3	35	0.027	2.5	**4.69**	NA	**2.47**	NA	**1.44**	NA
Copper	310	4,700	2.8	8	**46.1**	NA	**12.1**	NA	**6.18**	NA
Iron	5,500	82,000	35	55,800	**33,800**	NA	**17,500**	NA	**29,900**	NA
Lead	400	800	NLE	19.5	**84.6**	NA	**21.2**	NA	**11.5**	NA
Magnesium	NLE	NLE	NLE	7,230	**4,400**	NA	**1,770**	NA	**3,770**	NA
Manganese	180	2,600	2.8	90.7	**122**	NA	**39.5**	NA	**18.1**	NA
Mercury	2.3	35	0.0033	ND	**2.09**	NA	**0.275**	NA	**0.254**	NA
Nickel	150	2,200	2.6	8.4	**11.4**	NA	**9.21**	NA	**6.14**	NA
Potassium	NLE	NLE	NLE	15,400	**9,540**	NA	**3,740**	NA	**8,560**	NA
Selenium	39	580	0.052	1.9	**1.95**	NA	**1.52**	NA	**2.18**	NA
Silver	39	580	0.08	1.1	< 0.722	NA	< 0.751	NA	< 0.715	NA
Sodium	NLE	NLE	NLE	51.6	**369**	NA	**146**	NA	**108**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.722	NA	< 0.751	NA	< 0.715	NA
Vanadium	39	580	8.6	94.1	**60.4**	NA	**33.3**	NA	**54.7**	NA
Zinc	2,300	35,000	37	81.4	**305**	NA	**59.8**	NA	**55.6**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-19		FTMM02-B-190		FTMM02-B-191	
Sample ID					FTMM02-SS-B-19-0-1.0	FTMM02-SS-B-19-2-2	FTMM02-SS-B-190-0-1.0	FTMM02-SS-B-190-2-2	FTMM02-SS-B-191-0-1.0	FTMM02-SS-B-191-2-2
Sample Date					2/24/1999	2/24/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 580	NA	< 590	NA	< 580
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 290	NA	< 290	NA	< 290
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 580	NA	< 590	NA	< 580
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 580	NA	< 590	NA	< 580
Toluene	490,000	4,700,000	76	-	NA	< 290	NA	< 290	NA	< 290
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	**1,700**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1100	NA	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**140 J**	NA	< 1100	NA	**120 JB**	NA
Chrysene	15,000	290,000	1,200	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**880 JB**	NA	**510 JB**	NA	**410 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	< 1100	NA	< 1100	NA	< 1100	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	< 1100	NA	**120 J**	NA	**140 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**8,300**	NA	**37,630**	NA	**55,600**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-19		FTMM02-B-190		FTMM02-B-191	
Sample ID					FTMM02-SS-B-19-0-1.0	FTMM02-SS-B-19-2-2	FTMM02-SS-B-190-0-1.0	FTMM02-SS-B-190-2-2	FTMM02-SS-B-191-0-1.0	FTMM02-SS-B-191-2-2
Sample Date					2/24/1999	2/24/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.04**	NA	< 0.0128	NA	**0.057**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.11**	NA	**0.071**	NA	**0.052**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.176**	NA	< 0.0235	NA	**0.096**	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.011	NA	< 0.0107	NA	< 0.0116	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.011	NA	< 0.0107	NA	**0.02**	NA
Endrin	1.8	25	0.0092	-	< 0.011	NA	< 0.0107	NA	< 0.0116	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0088	NA	< 0.0085	NA	< 0.0093	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.011	NA	< 0.0107	NA	< 0.0116	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3515	NA	< 0.0171	NA	< 0.3703	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1406	NA	< 0.0068	NA	< 0.1481	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0879	NA	< 0.0043	NA	< 0.0926	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0791	NA	**5.806**	NA	< 0.0833	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**4,370**	NA	**9,390**	NA	**11,300**	NA
Antimony	3.1	47	0.035	ND	**0.48**	NA	**0.882**	NA	**1.02**	NA
Arsenic	0.67	3	0.0015	22.9	**2.22**	NA	**8.3**	NA	**12**	NA
Barium	1,500	22,000	16	32.3	**7.44**	NA	**142**	NA	**95.2**	NA
Beryllium	16	230	1.9	2	**0.177**	NA	**1.26**	NA	**1.5**	NA
Cadmium	7	98	0.069	ND	**0.384**	NA	**1.94**	NA	**3.72**	NA
Calcium	NLE	NLE	NLE	921	**92.4**	NA	**797**	NA	**1,150**	NA
Chromium	12,000	180,000	4,000,000	269	**19.4**	NA	**124**	NA	**169**	NA
Cobalt	2.3	35	0.027	2.5	**0.86**	NA	**1.71**	NA	**1.46**	NA
Copper	310	4,700	2.8	8	**66.6**	NA	**59.9**	NA	**14.6**	NA
Iron	5,500	82,000	35	55,800	**7,890**	NA	**28,900**	NA	**39,200**	NA
Lead	400	800	NLE	19.5	**4.46**	NA	**37.7**	NA	**12.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**437**	NA	**3,770**	NA	**5,210**	NA
Manganese	180	2,600	2.8	90.7	**12.3**	NA	**48**	NA	**28.9**	NA
Mercury	2.3	35	0.0033	ND	**0.09**	NA	**0.365**	NA	**0.378**	NA
Nickel	150	2,200	2.6	8.4	**2.51**	NA	**9.52**	NA	**7.17**	NA
Potassium	NLE	NLE	NLE	15,400	**849**	NA	**8,500**	NA	**12,300**	NA
Selenium	39	580	0.052	1.9	< 0.646	NA	**2.01**	NA	**2.61**	NA
Silver	39	580	0.08	1.1	< 0.646	NA	< 0.657	NA	< 0.772	NA
Sodium	NLE	NLE	NLE	51.6	**146**	NA	**124**	NA	**151**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.646	NA	< 0.657	NA	< 0.772	NA
Vanadium	39	580	8.6	94.1	**17.9**	NA	**53.3**	NA	**72.4**	NA
Zinc	2,300	35,000	37	81.4	**9.61**	NA	**178**	NA	**114**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-192		FTMM02-B-193		FTMM02-B-194	
Sample ID					FTMM02-SS-B-192-0-1.0	FTMM02-SS-B-192-2-2	FTMM02-SS-B-193-0-1.0	FTMM02-SS-B-193-2-2	FTMM02-SS-B-194-0-1.0	FTMM02-SS-B-194-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 550	NA	< 580	NA	< 590
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 270	NA	< 290	NA	< 300
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 550	NA	< 580	NA	< 590
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 550	NA	< 580	NA	< 590
Toluene	490,000	4,700,000	76	-	NA	< 270	NA	< 290	NA	< 300
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**1,000**	NA	**980**	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	**210 J**	NA	< 1100	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	**220 J**	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**170 J**	NA	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**140 JB**	NA	< 1100	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	**400 J**	NA	< 1100	NA	**200 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**420 JB**	NA	**160 JB**	NA	**190 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**340 J**	NA	**140 J**	NA	**170 J**	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	**170 J**	NA	**120 J**	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	**320 J**	NA	**180 J**	NA	**180 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**50,220**	NA	**15,640**	NA	**19,420**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-192		FTMM02-B-193		FTMM02-B-194	
Sample ID					FTMM02-SS-B-192-0-1.0	FTMM02-SS-B-192-2-2	FTMM02-SS-B-193-0-1.0	FTMM02-SS-B-193-2-2	FTMM02-SS-B-194-0-1.0	FTMM02-SS-B-194-2-2
Sample Date					5/18/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999	5/18/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.034**	NA	**0.031**	NA	**0.036**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.043**	NA	**0.027**	NA	**0.078**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.158**	NA	**0.035**	NA	**0.26**	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0107	NA	< 0.0113	NA	< 0.011	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0107	NA	< 0.0113	NA	< 0.011	NA
Endrin	1.8	25	0.0092	-	< 0.0107	NA	< 0.0113	NA	< 0.011	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0085	NA	< 0.009	NA	< 0.0088	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0107	NA	< 0.0113	NA	< 0.011	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3412	NA	< 0.3608	NA	< 0.3527	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1365	NA	< 0.1443	NA	< 0.1441	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0853	NA	< 0.0902	NA	< 0.0882	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0768	NA	< 0.0812	NA	< 0.0794	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**8,010**	NA	**9,510**	NA	**1,080**	NA
Antimony	3.1	47	0.035	ND	**0.848**	NA	**0.937**	NA	**0.874**	NA
Arsenic	0.67	3	0.0015	22.9	**17.6**	NA	**10.3**	NA	**16**	NA
Barium	1,500	22,000	16	32.3	**52.9**	NA	**57.4**	NA	**73**	NA
Beryllium	16	230	1.9	2	**1.33**	NA	**1.33**	NA	**0.119**	NA
Cadmium	7	98	0.069	ND	**1.28**	NA	**1.09**	NA	**0.52**	NA
Calcium	NLE	NLE	NLE	921	**1,750**	NA	**1,500**	NA	**892**	NA
Chromium	12,000	180,000	4,000,000	269	**93.4**	NA	**113**	NA	**12.2**	NA
Cobalt	2.3	35	0.027	2.5	**1.93**	NA	**1.84**	NA	**0.512**	NA
Copper	310	4,700	2.8	8	**23**	NA	**10.6**	NA	**11.2**	NA
Iron	5,500	82,000	35	55,800	**24,900**	NA	**26,200**	NA	**9,820**	NA
Lead	400	800	NLE	19.5	**29.1**	NA	**23.7**	NA	**36.4**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,980**	NA	**3,430**	NA	**135**	NA
Manganese	180	2,600	2.8	90.7	**142**	NA	**24.1**	NA	**8.35**	NA
Mercury	2.3	35	0.0033	ND	**0.433**	NA	**0.283**	NA	**0.68**	NA
Nickel	150	2,200	2.6	8.4	**8.87**	NA	**7.86**	NA	**1.92**	NA
Potassium	NLE	NLE	NLE	15,400	**6,250**	NA	**7,020**	NA	**767**	NA
Selenium	39	580	0.052	1.9	**1.41**	NA	**1.63**	NA	**1.68**	NA
Silver	39	580	0.08	1.1	< 0.624	NA	< 0.739	NA	< 0.755	NA
Sodium	NLE	NLE	NLE	51.6	**248**	NA	**167**	NA	**99.1**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.624	NA	< 0.739	NA	< 0.755	NA
Vanadium	39	580	8.6	94.1	**45.5**	NA	**52.1**	NA	**10.8**	NA
Zinc	2,300	35,000	37	81.4	**282**	NA	**57.5**	NA	**42.5**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-195		FTMM02-B-196		FTMM02-B-197	
Sample ID					FTMM02-SS-B-195-0-1.0	FTMM02-SS-B-195-2-2	FTMM02-SS-B-196-0-1.0	FTMM02-SS-B-196-2-2	FTMM02-SS-B-197-0-1.0	FTMM02-SS-B-197-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999	6/1/1999	6/1/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 600	NA	< 550	NA	< 490
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 300	NA	< 270	NA	< 240
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 600	NA	< 550	NA	< 490
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 600	NA	< 550	NA	< 490
Toluene	490,000	4,700,000	76	-	NA	< 300	NA	< 270	NA	< 240
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	**3,400**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1200	NA	< 1000	NA	< 1000	NA
Acenaphthene	350,000	4,500,000	550	-	< 1200	NA	< 1000	NA	< 1000	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1200	NA	< 1000	NA	< 1000	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1200	NA	< 1000	NA	< 1000	NA
Azobenzene	5,600	26,000	0.92	-	< 1200	NA	< 1000	NA	< 1000	NA
Benzo(a)anthracene	150	2,900	12	-	**120 J**	NA	< 1000	NA	< 1000	NA
Benzo(a)pyrene	15	290	4	-	< 1200	NA	< 1000	NA	< 1000	NA
Benzo(b)fluoranthene	150	2,900	41	-	< 1200	NA	< 1000	NA	< 1000	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1200	NA	< 1000	NA	< 1000	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1200	NA	< 1000	NA	< 1000	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1200	NA	< 1000	NA	< 1000	NA
Chrysene	15,000	290,000	1,200	-	**210 J**	NA	< 1000	NA	< 1000	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1200	NA	< 1000	NA	< 1000	NA
Dibenzofuran	7,200	100,000	15	-	< 1200	NA	< 1000	NA	< 1000	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1200	NA	< 1000	NA	< 1000	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**730 JB**	NA	**120 JB**	NA	**190 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**210 J**	NA	< 1000	NA	< 1000	NA
Fluorene	230,000	3,000,000	540	-	< 1200	NA	< 1000	NA	< 1000	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1200	NA	< 1000	NA	< 1000	NA
Naphthalene	3,800	17,000	0.54	-	< 1200	NA	< 1000	NA	< 1000	NA
Phenanthrene	NLE	NLE	NLE	-	**120 J**	NA	< 1000	NA	< 1000	NA
Pyrene	170,000	2,300,000	1,300	-	**200 J**	NA	< 1000	NA	< 1000	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**17,990**	NA	**8,100**	NA	**5,020**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-195		FTMM02-B-196		FTMM02-B-197	
Sample ID					FTMM02-SS-B-195-0-1.0	FTMM02-SS-B-195-2-2	FTMM02-SS-B-196-0-1.0	FTMM02-SS-B-196-2-2	FTMM02-SS-B-197-0-1.0	FTMM02-SS-B-197-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999	6/1/1999	6/1/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.029**	NA	< 0.0126	NA	**0.054**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.022**	NA	< 0.0084	NA	**0.013**	NA
4,4'-DDT	1.9	8.6	0.077	-	< 0.0247	NA	< 0.023	NA	< 0.0231	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0112	NA	< 0.0105	NA	< 0.0105	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0112	NA	< 0.0105	NA	< 0.0105	NA
Endrin	1.8	25	0.0092	-	< 0.0112	NA	< 0.0105	NA	< 0.0105	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.009	NA	< 0.0084	NA	< 0.0084	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0112	NA	< 0.0105	NA	< 0.0105	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3594	NA	< 0.3349	NA	< 0.3365	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1438	NA	< 0.134	NA	< 0.1346	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0899	NA	< 0.0837	NA	< 0.0841	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0809	NA	< 0.0754	NA	< 0.0757	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**1,210**	NA	**851**	NA	**1,050**	NA
Antimony	3.1	47	0.035	ND	**0.579**	NA	< 0.461	NA	**0.464**	NA
Arsenic	0.67	3	0.0015	22.9	**6.35**	NA	**0.664**	NA	**4.58**	NA
Barium	1,500	22,000	16	32.3	**14.6**	NA	**3.67**	NA	**30**	NA
Beryllium	16	230	1.9	2	**0.44**	NA	< 0.115	NA	**0.221**	NA
Cadmium	7	98	0.069	ND	**0.959**	NA	**0.196**	NA	**0.485**	NA
Calcium	NLE	NLE	NLE	921	**580**	NA	**155**	NA	**1,400**	NA
Chromium	12,000	180,000	4,000,000	269	**16.2**	NA	**3.61**	NA	**7.2**	NA
Cobalt	2.3	35	0.027	2.5	**0.483**	NA	**0.257**	NA	**0.755**	NA
Copper	310	4,700	2.8	8	**6.66**	NA	**10.3**	NA	**25.1**	NA
Iron	5,500	82,000	35	55,800	**6,940**	NA	**507**	NA	**3,950**	NA
Lead	400	800	NLE	19.5	**16.8**	NA	**5.81**	NA	**16.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**66.6**	NA	**35.3**	NA	**89**	NA
Manganese	180	2,600	2.8	90.7	**5.05**	NA	**2.44**	NA	**15.6**	NA
Mercury	2.3	35	0.0033	ND	**0.222**	NA	**0.169**	NA	**0.202**	NA
Nickel	150	2,200	2.6	8.4	**3.67**	NA	**2.28**	NA	**3.32**	NA
Potassium	NLE	NLE	NLE	15,400	**279**	NA	**59**	NA	**165**	NA
Selenium	39	580	0.052	1.9	**0.816**	NA	< 0.692	NA	< 0.672	NA
Silver	39	580	0.08	1.1	< 0.756	NA	< 0.692	NA	< 0.672	NA
Sodium	NLE	NLE	NLE	51.6	**92.6**	NA	**98**	NA	**70.4**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.756	NA	< 0.692	NA	< 0.672	NA
Vanadium	39	580	8.6	94.1	**11.6**	NA	**3.26**	NA	**11**	NA
Zinc	2,300	35,000	37	81.4	**69.7**	NA	**27.8**	NA	**22.7**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-198		FTMM02-B-199		FTMM02-B-20	
Sample ID					FTMM02-SS-B-198-0-1.0	FTMM02-SS-B-198-2-2	FTMM02-SS-B-199-0-1.0	FTMM02-SS-B-199-2-2	FTMM02-SS-B-20-0-1.0	FTMM02-SS-B-20-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999	2/24/1999	2/24/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 640	NA	< 540	NA	< 530
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 320	NA	< 270	NA	< 270
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 640	NA	< 540	NA	< 530
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 640	NA	< 540	NA	< 530
Toluene	490,000	4,700,000	76	-	NA	< 320	NA	< 270	NA	< 270
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**3,400**	NA	**3,000**	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1100	NA	< 1000	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1100	NA	< 1000	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1000	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1100	NA	< 1000	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1100	NA	< 1000	NA
Benzo(a)anthracene	150	2,900	12	-	**240 J**	NA	**150 J**	NA	< 1000	NA
Benzo(a)pyrene	15	290	4	-	**210 J**	NA	**130 J**	NA	< 1000	NA
Benzo(b)fluoranthene	150	2,900	41	-	**180 J**	NA	**120 J**	NA	< 1000	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	**150 J**	NA	< 1100	NA	< 1000	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**160 J**	NA	**110 J**	NA	< 1000	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**120 JB**	NA	**120 JB**	NA	**160 J**	NA
Chrysene	15,000	290,000	1,200	-	**520 J**	NA	**290 J**	NA	< 1000	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1100	NA	< 1000	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1100	NA	< 1000	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1100	NA	< 1000	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**420 JB**	NA	**860 JB**	NA	**680 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**380 J**	NA	**280 J**	NA	< 1000	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1100	NA	< 1000	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	**130 J**	NA	< 1100	NA	< 1000	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1100	NA	< 1000	NA
Phenanthrene	NLE	NLE	NLE	-	**410 J**	NA	**240 J**	NA	< 1000	NA
Pyrene	170,000	2,300,000	1,300	-	**520 J**	NA	**300 J**	NA	< 1000	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**25,480**	NA	**25,970**	NA	**10,150**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-198		FTMM02-B-199		FTMM02-B-20	
Sample ID					FTMM02-SS-B-198-0-1.0	FTMM02-SS-B-198-2-2	FTMM02-SS-B-199-0-1.0	FTMM02-SS-B-199-2-2	FTMM02-SS-B-20-0-1.0	FTMM02-SS-B-20-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999	2/24/1999	2/24/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.074**	NA	**0.17**	NA	**0.032**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.075**	NA	**0.086**	NA	**0.012**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.102**	NA	< 0.0258	NA	< 0.0235	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0118	NA	< 0.0117	NA	< 0.0107	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0118	NA	< 0.0117	NA	< 0.0107	NA
Endrin	1.8	25	0.0092	-	< 0.0118	NA	< 0.0117	NA	< 0.0107	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0094	NA	< 0.0094	NA	< 0.0086	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0118	NA	< 0.0117	NA	< 0.0107	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3796	NA	< 0.3746	NA	< 0.3423	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1508	NA	< 0.1498	NA	< 0.1369	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0942	NA	< 0.0936	NA	< 0.0856	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0848	NA	< 0.0843	NA	< 0.077	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**1,520**	NA	**1,510**	NA	**5,320**	NA
Antimony	3.1	47	0.035	ND	**1.46**	NA	**0.915**	NA	**0.527**	NA
Arsenic	0.67	3	0.0015	22.9	**5.2**	NA	**8.96**	NA	**3.68**	NA
Barium	1,500	22,000	16	32.3	**40.9**	NA	**38.5**	NA	**12.6**	NA
Beryllium	16	230	1.9	2	**0.473**	NA	**0.85**	NA	**0.394**	NA
Cadmium	7	98	0.069	ND	**0.524**	NA	**2.43**	NA	**0.248**	NA
Calcium	NLE	NLE	NLE	921	**1,170**	NA	**711**	NA	**372**	NA
Chromium	12,000	180,000	4,000,000	269	**21.7**	NA	**18.6**	NA	**29.7**	NA
Cobalt	2.3	35	0.027	2.5	**0.593**	NA	**0.975**	NA	**1.08**	NA
Copper	310	4,700	2.8	8	**10.2**	NA	**11.4**	NA	**69.8**	NA
Iron	5,500	82,000	35	55,800	**7,270**	NA	**7,420**	NA	**12,000**	NA
Lead	400	800	NLE	19.5	**25.3**	NA	**24.5**	NA	**27.7**	NA
Magnesium	NLE	NLE	NLE	7,230	**95.9**	NA	**64.9**	NA	**742**	NA
Manganese	180	2,600	2.8	90.7	**5.6**	NA	**6**	NA	**13.2**	NA
Mercury	2.3	35	0.0033	ND	**0.508**	NA	**0.294**	NA	**0.04**	NA
Nickel	150	2,200	2.6	8.4	**3.31**	NA	**5.23**	NA	**3.55**	NA
Potassium	NLE	NLE	NLE	15,400	**110**	NA	**141**	NA	**1,530**	NA
Selenium	39	580	0.052	1.9	**1.04**	NA	**0.937**	NA	< 0.636	NA
Silver	39	580	0.08	1.1	**1.84**	NA	**0.786**	NA	< 0.636	NA
Sodium	NLE	NLE	NLE	51.6	**71.1**	NA	**70.8**	NA	**223**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.746	NA	< 0.656	NA	< 0.636	NA
Vanadium	39	580	8.6	94.1	**15**	NA	**14.9**	NA	**23.7**	NA
Zinc	2,300	35,000	37	81.4	**26.3**	NA	**35.6**	NA	**41**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-200		FTMM02-B-201		FTMM02-B-202	
Sample ID					FTMM02-SS-B-200-0-1.0	FTMM02-SS-B-200-2-2	FTMM02-SS-B-201-0-1.0	FTMM02-SS-B-201-2-2	FTMM02-SS-B-202-0-1.0	FTMM02-SS-B-202-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999	6/1/1999	6/1/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 540	NA	< 540	NA	< 620
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 270	NA	< 270	NA	< 310
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 540	NA	< 540	NA	< 620
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 540	NA	< 540	NA	< 620
Toluene	490,000	4,700,000	76	-	NA	< 270	NA	< 270	NA	< 310
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	**140 J**	NA	< 1100	NA	**180 J**	NA
Benzo(a)pyrene	15	290	4	-	**150 J**	NA	< 1100	NA	**160 J**	NA
Benzo(b)fluoranthene	150	2,900	41	-	**180 J**	NA	< 1100	NA	**140 J**	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	**130 J**	NA	< 1100	NA	**120 J**	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**130 J**	NA	< 1100	NA	**150 J**	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1100	NA	**110 JB**	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	**310 J**	NA	< 1100	NA	**370 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**270 JB**	NA	**210 JB**	NA	**600 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**260 J**	NA	< 1100	NA	**340 J**	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	**120 J**	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	**130 J**	NA	< 1100	NA	**260 J**	NA
Pyrene	170,000	2,300,000	1,300	-	**260 J**	NA	< 1100	NA	**360 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**11,410**	NA	**6,420**	NA	**19,360**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-200		FTMM02-B-201		FTMM02-B-202	
Sample ID					FTMM02-SS-B-200-0-1.0	FTMM02-SS-B-200-2-2	FTMM02-SS-B-201-0-1.0	FTMM02-SS-B-201-2-2	FTMM02-SS-B-202-0-1.0	FTMM02-SS-B-202-2-2
Sample Date					6/1/1999	6/1/1999	6/1/1999	6/1/1999	6/1/1999	6/1/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.207**	NA	< 0.0124	NA	**0.091**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.183**	NA	< 0.0083	NA	**0.08**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.118**	NA	< 0.0228	NA	**0.067**	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0124	NA	< 0.0103	NA	< 0.0117	NA
Dieldrin	0.033	0.14	0.000069	-	**0.021**	NA	< 0.0103	NA	< 0.0117	NA
Endrin	1.8	25	0.0092	-	< 0.0124	NA	< 0.0103	NA	< 0.0117	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0099	NA	< 0.0083	NA	< 0.0093	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0124	NA	< 0.0103	NA	< 0.0117	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.0991	NA	< 0.3311	NA	< 0.3732	NA
Aroclor-1248	0.24	1	0.006	-	< 0.0396	NA	< 0.1325	NA	< 0.1493	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0248	NA	< 0.0828	NA	< 0.0933	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0223	NA	< 0.0745	NA	< 0.084	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**1,120**	NA	**499**	NA	**910**	NA
Antimony	3.1	47	0.035	ND	< 0.558	NA	< 0.461	NA	< 0.524	NA
Arsenic	0.67	3	0.0015	22.9	**6.85**	NA	< 0.461	NA	**7.98**	NA
Barium	1,500	22,000	16	32.3	**22.9**	NA	**6.43**	NA	**37.9**	NA
Beryllium	16	230	1.9	2	**0.289**	NA	< 0.115	NA	**0.302**	NA
Cadmium	7	98	0.069	ND	**0.898**	NA	**0.181**	NA	**0.733**	NA
Calcium	NLE	NLE	NLE	921	**1,290**	NA	**482**	NA	**706**	NA
Chromium	12,000	180,000	4,000,000	269	**10.7**	NA	**5.96**	NA	**49.1**	NA
Cobalt	2.3	35	0.027	2.5	**0.695**	NA	< 0.115	NA	**1.29**	NA
Copper	310	4,700	2.8	8	**20.4**	NA	**3.05**	NA	**7.64**	NA
Iron	5,500	82,000	35	55,800	**6,170**	NA	**791**	NA	**6,040**	NA
Lead	400	800	NLE	19.5	**36.7**	NA	**2.02**	NA	**18.5**	NA
Magnesium	NLE	NLE	NLE	7,230	**145**	NA	**50.7**	NA	**287**	NA
Manganese	180	2,600	2.8	90.7	**22.9**	NA	**3.66**	NA	**6.73**	NA
Mercury	2.3	35	0.0033	ND	**0.592**	NA	**0.265**	NA	**0.222**	NA
Nickel	150	2,200	2.6	8.4	**3.85**	NA	**1.06**	NA	**410**	NA
Potassium	NLE	NLE	NLE	15,400	**168**	NA	**139**	NA	**419**	NA
Selenium	39	580	0.052	1.9	< 0.837	NA	< 0.691	NA	< 0.786	NA
Silver	39	580	0.08	1.1	< 0.837	NA	< 0.691	NA	< 0.786	NA
Sodium	NLE	NLE	NLE	51.6	**94.3**	NA	**158**	NA	**126**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.837	NA	< 0.691	NA	< 0.786	NA
Vanadium	39	580	8.6	94.1	**11.9**	NA	**3.52**	NA	**9.31**	NA
Zinc	2,300	35,000	37	81.4	**58.7**	NA	**20.5**	NA	**53.9**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-203		FTMM02-B-204		FTMM02-B-205	
Sample ID					FTMM02-SS-B-203-0-1.0	FTMM02-SS-B-203-2-2	FTMM02-SS-B-204-0-1.0	FTMM02-SS-B-204-2-2	FTMM02-SS-B-205-0-1.0	FTMM02-SS-B-205-2-2
Sample Date					6/1/1999	6/1/1999	6/2/1999	6/2/1999	6/2/1999	6/2/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 560	NA	< 580	NA	< 520
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 280	NA	< 290	NA	< 260
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 560	NA	< 580	NA	< 520
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 560	NA	< 580	NA	< 520
Toluene	490,000	4,700,000	76	-	NA	< 280	NA	< 290	NA	< 260
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 11000	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 11000	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 11000	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	NA	< 11000	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1100	NA	< 11000	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	**380 J**	NA	< 11000	NA	**120 J**	NA
Benzo(a)pyrene	15	290	4	-	**360 J**	NA	< 11000	NA	**110 J**	NA
Benzo(b)fluoranthene	150	2,900	41	-	**350 J**	NA	< 11000	NA	**110 J**	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	**270 J**	NA	< 11000	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**300 J**	NA	< 11000	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**140 JB**	NA	< 11000	NA	**140 JB**	NA
Chrysene	15,000	290,000	1,200	-	**760 J**	NA	< 11000	NA	**230 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 11000	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 11000	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 11000	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**610 JB**	NA	< 11000	NA	**200 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**740 J**	NA	< 11000	NA	**230 J**	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 11000	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	**240 J**	NA	< 11000	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 11000	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	**470 J**	NA	< 11000	NA	**130 J**	NA
Pyrene	170,000	2,300,000	1,300	-	**690 J**	NA	< 11000	NA	**200 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**27,680**	NA	**7,000**	NA	**10,570**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-203		FTMM02-B-204		FTMM02-B-205	
Sample ID					FTMM02-SS-B-203-0-1.0	FTMM02-SS-B-203-2-2	FTMM02-SS-B-204-0-1.0	FTMM02-SS-B-204-2-2	FTMM02-SS-B-205-0-1.0	FTMM02-SS-B-205-2-2
Sample Date					6/1/1999	6/1/1999	6/2/1999	6/2/1999	6/2/1999	6/2/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.348**	NA	**0.101**	NA	**0.077**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.234**	NA	**0.023**	NA	**0.094**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.233**	NA	**0.027**	NA	**0.055**	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0109	NA	< 0.01	NA	< 0.0104	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0109	NA	**0.02**	NA	**0.013**	NA
Endrin	1.8	25	0.0092	-	< 0.0109	NA	< 0.01	NA	< 0.0104	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0087	NA	< 0.008	NA	< 0.0084	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0109	NA	< 0.01	NA	< 0.0104	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3479	NA	< 0.3199	NA	< 0.3341	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1392	NA	< 0.1279	NA	< 0.1336	NA
Aroclor-1254	0.11	1	0.01	-	< 0.087	NA	< 0.08	NA	< 0.0835	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0783	NA	< 0.072	NA	< 0.0752	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**5,860**	NA	**10,400**	NA	**9,730**	NA
Antimony	3.1	47	0.035	ND	**0.658**	NA	**0.513**	NA	**0.757**	NA
Arsenic	0.67	3	0.0015	22.9	**7.34**	NA	**7.89**	NA	**10.3**	NA
Barium	1,500	22,000	16	32.3	**33.9**	NA	**41.2**	NA	**46.3**	NA
Beryllium	16	230	1.9	2	**0.929**	NA	**0.99**	NA	**0.873**	NA
Cadmium	7	98	0.069	ND	**1.25**	NA	**1.21**	NA	**1.62**	NA
Calcium	NLE	NLE	NLE	921	**653**	NA	**1,530**	NA	**1,050**	NA
Chromium	12,000	180,000	4,000,000	269	**65.4**	NA	**83.1**	NA	**67.9**	NA
Cobalt	2.3	35	0.027	2.5	**1.38**	NA	**3.77**	NA	**3.61**	NA
Copper	310	4,700	2.8	8	**13.1**	NA	**25.1**	NA	**9.47**	NA
Iron	5,500	82,000	35	55,800	**18,000**	NA	**30,100**	NA	**30,100**	NA
Lead	400	800	NLE	19.5	**49**	NA	**22.8**	NA	**23.1**	NA
Magnesium	NLE	NLE	NLE	7,230	**1,690**	NA	**3,400**	NA	**2,430**	NA
Manganese	180	2,600	2.8	90.7	**25**	NA	**58.7**	NA	**77.6**	NA
Mercury	2.3	35	0.0033	ND	**0.413**	NA	**0.207**	NA	**0.292**	NA
Nickel	150	2,200	2.6	8.4	**7.36**	NA	**11.7**	NA	**10.3**	NA
Potassium	NLE	NLE	NLE	15,400	**3,490**	NA	**6,680**	NA	**5,290**	NA
Selenium	39	580	0.052	1.9	**1.58**	NA	**1.33**	NA	**1.09**	NA
Silver	39	580	0.08	1.1	< 0.666	NA	< 0.687	NA	< 0.673	NA
Sodium	NLE	NLE	NLE	51.6	**113**	NA	**231**	NA	**99.8**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.666	NA	< 0.687	NA	< 0.673	NA
Vanadium	39	580	8.6	94.1	**34.7**	NA	**60.8**	NA	**49.2**	NA
Zinc	2,300	35,000	37	81.4	**63.8**	NA	**63.9**	NA	**90.1**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-206				FTMM02-B-207
Sample ID					FTMM02-SS-B-206-0-1.0	FTMM02-SS-B-206-0-1.0-Dup	FTMM02-SS-B-206-2-2	FTMM02-SS-B-206-2-2-Dup	FTMM02-SS-B-207-0-1.0
Sample Date					6/2/1999	6/2/1999	6/2/1999	6/2/1999	6/2/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	< 500	< 470	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	< 250	< 240	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	< 500	< 470	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	< 500	< 470	NA
Toluene	490,000	4,700,000	76	-	NA	NA	< 250	< 240	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	ND	ND	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	< 1000	NA	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	< 1100	< 1000	NA	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	< 1100	< 1000	NA	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	< 1100	< 1000	NA	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	< 1100	< 1000	NA	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	< 1100	< 1000	NA	NA	< 1100
Benzo(a)pyrene	15	290	4	-	< 1100	< 1000	NA	NA	< 1100
Benzo(b)fluoranthene	150	2,900	41	-	< 1100	< 1000	NA	NA	< 1100
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	< 1000	NA	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1100	< 1000	NA	NA	< 1100
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1100	< 1000	NA	NA	**150 JB**
Chrysene	15,000	290,000	1,200	-	< 1100	< 1000	NA	NA	< 1100
Dibenz(a,h)anthracene	15	290	13	-	< 1100	< 1000	NA	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	< 1100	< 1000	NA	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	**190 J**	< 1000	NA	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	**190 JB**	**130 JB**	NA	NA	**220 JB**
Fluoranthene	230,000	3,000,000	8,900	-	< 1100	< 1000	NA	NA	**110 J**
Fluorene	230,000	3,000,000	540	-	< 1100	< 1000	NA	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	< 1000	NA	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	< 1100	< 1000	NA	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	< 1100	< 1000	NA	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	< 1100	< 1000	NA	NA	< 1100
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**7,890**	**10,490**	NA	NA	**9,000**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-206				FTMM02-B-207
Sample ID					FTMM02-SS-B-206-0-1.0	FTMM02-SS-B-206-0-1.0-Dup	FTMM02-SS-B-206-2-2	FTMM02-SS-B-206-2-2-Dup	FTMM02-SS-B-207-0-1.0
Sample Date					6/2/1999	6/2/1999	6/2/1999	6/2/1999	6/2/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	**0.03**	< 0.0128	NA	NA	**0.026**
4,4'-DDE	1.6	6.8	0.054	-	**0.117**	**0.036**	NA	NA	**0.077**
4,4'-DDT	1.9	8.6	0.077	-	**0.214**	**0.036**	NA	NA	**0.105**
Alpha-Chlordane	1.8	8	0.015	-	< 0.0105	< 0.0106	NA	NA	< 0.0103
Dieldrin	0.033	0.14	0.000069	-	< 0.0105	< 0.0106	NA	NA	< 0.0103
Endrin	1.8	25	0.0092	-	< 0.0105	< 0.0106	NA	NA	< 0.0103
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0084	< 0.0085	NA	NA	< 0.0082
Gamma-Chlordane	1.8	8	0.015	-	< 0.0105	< 0.0106	NA	NA	< 0.0103
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.337	< 0.3404	NA	NA	< 0.3295
Aroclor-1248	0.24	1	0.006	-	< 0.1348	< 0.1362	NA	NA	< 0.1318
Aroclor-1254	0.11	1	0.01	-	< 0.0842	< 0.0851	NA	NA	< 0.0824
Aroclor-1260	0.24	1	0.027	-	< 0.0758	< 0.0766	NA	NA	< 0.0741
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	**9,240**	**9,370**	NA	NA	**8,230**
Antimony	3.1	47	0.035	ND	**0.629**	**0.598**	NA	NA	**0.657**
Arsenic	0.67	3	0.0015	22.9	**8.64**	**6.49**	NA	NA	**7.18**
Barium	1,500	22,000	16	32.3	**29.7**	**23.3**	NA	NA	**27.9**
Beryllium	16	230	1.9	2	**0.739**	**0.603**	NA	NA	**0.659**
Cadmium	7	98	0.069	ND	**2.08**	**0.631**	NA	NA	**0.658**
Calcium	NLE	NLE	NLE	921	**711**	**411**	NA	NA	**959**
Chromium	12,000	180,000	4,000,000	269	**41.9**	**49.2**	NA	NA	**43.1**
Cobalt	2.3	35	0.027	2.5	**2.81**	**2.23**	NA	NA	**2.54**
Copper	310	4,700	2.8	8	**10.5**	**6.96**	NA	NA	**6.89**
Iron	5,500	82,000	35	55,800	**19,300**	**19,700**	NA	NA	**18,400**
Lead	400	800	NLE	19.5	**23.9**	**19.8**	NA	NA	**20.5**
Magnesium	NLE	NLE	NLE	7,230	**1,730**	**1,500**	NA	NA	**1,450**
Manganese	180	2,600	2.8	90.7	**115**	**68.8**	NA	NA	**93.1**
Mercury	2.3	35	0.0033	ND	**0.215**	**0.211**	NA	NA	**0.242**
Nickel	150	2,200	2.6	8.4	**8.2**	**6.67**	NA	NA	**7.3**
Potassium	NLE	NLE	NLE	15,400	**2,440**	**2,590**	NA	NA	**2,340**
Selenium	39	580	0.052	1.9	**1.12**	**1.26**	NA	NA	**0.914**
Silver	39	580	0.08	1.1	< 0.748	< 0.718	NA	NA	< 0.694
Sodium	NLE	NLE	NLE	51.6	**334**	**74.7**	NA	NA	**110**
Thallium	0.078	1.2	0.0014	ND	< 0.748	< 0.718	NA	NA	< 0.694
Vanadium	39	580	8.6	94.1	**35.2**	**40.8**	NA	NA	**37.5**
Zinc	2,300	35,000	37	81.4	**48.5**	**34.9**	NA	NA	**40.3**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-207	FTMM02-B-208		FTMM02-B-209		FTMM02-B-21
Sample ID					FTMM02-SS-B-207-2-2	FTMM02-SS-B-208-0-1.0	FTMM02-SS-B-208-2-2	FTMM02-SS-B-209-0-1.0	FTMM02-SS-B-209-2-2	FTMM02-SS-B-21-0-1.0
Sample Date					6/2/1999	6/2/1999	6/2/1999	6/2/1999	6/2/1999	2/24/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 530	NA	< 530	NA	< 570	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 260	NA	< 270	NA	< 290	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 530	NA	< 530	NA	< 570	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 530	NA	**1,100 B**	NA	**1,200 B**	NA
Toluene	490,000	4,700,000	76	-	< 260	NA	< 270	NA	< 290	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	**420 J**
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	NA	**300 J**
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	**300 J**	NA	**2,700**
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	**270 J**	NA	**2,900**
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	**240 J**	NA	**4,500**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	**200 J**	NA	**1,500**
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	**230 J**	NA	**3,100**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**120 JB**	NA	**130 JB**	NA	**180 J**
Chrysene	15,000	290,000	1,200	-	NA	< 1100	NA	**610 J**	NA	**6,300**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1100	NA	**810 J**
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1100	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**650 JB**	NA	**510 JB**	NA	**1,300 B**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1100	NA	**560 J**	NA	**1,400**
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	**170 J**	NA	**1,500**
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	**460 J**	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	< 1100	NA	**600 J**	NA	**1,900**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**11,300**	NA	ND	NA	**18,060**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-207	FTMM02-B-208		FTMM02-B-209		FTMM02-B-21
Sample ID					FTMM02-SS-B-207-2-2	FTMM02-SS-B-208-0-1.0	FTMM02-SS-B-208-2-2	FTMM02-SS-B-209-0-1.0	FTMM02-SS-B-209-2-2	FTMM02-SS-B-21-0-1.0
Sample Date					6/2/1999	6/2/1999	6/2/1999	6/2/1999	6/2/1999	2/24/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.015**	NA	**0.114**	NA	**0.078**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.012**	NA	**0.07**	NA	**0.128**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0222	NA	**0.037**	NA	**0.199**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0101	NA	< 0.0114	NA	< 0.0115
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0101	NA	< 0.0114	NA	< 0.0115
Endrin	1.8	25	0.0092	-	NA	< 0.0101	NA	< 0.0114	NA	< 0.0115
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0081	NA	< 0.0091	NA	< 0.0092
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0101	NA	< 0.0114	NA	< 0.0115
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3233	NA	< 0.3638	NA	< 0.3675
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1293	NA	< 0.1455	NA	< 0.147
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0808	NA	< 0.091	NA	< 0.0919
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0727	NA	< 0.0819	NA	< 0.0827
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**6,530**	NA	**5,390**	NA	**11,400**
Antimony	3.1	47	0.035	ND	NA	**0.485**	NA	**1.18**	NA	**0.527**
Arsenic	0.67	3	0.0015	22.9	NA	**5.16**	NA	**8.4**	NA	**10.8**
Barium	1,500	22,000	16	32.3	NA	**17.8**	NA	**44**	NA	**54.3**
Beryllium	16	230	1.9	2	NA	**0.607**	NA	**1.01**	NA	**1.31**
Cadmium	7	98	0.069	ND	NA	**0.79**	NA	**1.42**	NA	**0.181**
Calcium	NLE	NLE	NLE	921	NA	**323**	NA	**928**	NA	**2,050**
Chromium	12,000	180,000	4,000,000	269	NA	**50.6**	NA	**65.6**	NA	**145**
Cobalt	2.3	35	0.027	2.5	NA	**3.04**	NA	**2.03**	NA	**1.55**
Copper	310	4,700	2.8	8	NA	**344**	NA	**47.5**	NA	**71.5**
Iron	5,500	82,000	35	55,800	NA	**17,800**	NA	**18,500**	NA	**35,900**
Lead	400	800	NLE	19.5	NA	**15.7**	NA	**23.6**	NA	**62.4**
Magnesium	NLE	NLE	NLE	7,230	NA	**1,290**	NA	**1,610**	NA	**4,990**
Manganese	180	2,600	2.8	90.7	NA	**158**	NA	**20.5**	NA	**57.4**
Mercury	2.3	35	0.0033	ND	NA	**1.017**	NA	**0.346**	NA	**0.15**
Nickel	150	2,200	2.6	8.4	NA	**6.82**	NA	**6.98**	NA	**6.69**
Potassium	NLE	NLE	NLE	15,400	NA	**2,780**	NA	**3,360**	NA	**10,600**
Selenium	39	580	0.052	1.9	NA	**0.867**	NA	**1.26**	NA	**0.977**
Silver	39	580	0.08	1.1	NA	< 0.614	NA	< 0.774	NA	< 0.657
Sodium	NLE	NLE	NLE	51.6	NA	**75.4**	NA	**114**	NA	**140**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.614	NA	< 0.774	NA	< 0.657
Vanadium	39	580	8.6	94.1	NA	**35.5**	NA	**33.6**	NA	**60.3**
Zinc	2,300	35,000	37	81.4	NA	**112**	NA	**71.3**	NA	**140**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-21	FTMM02-B-210		FTMM02-B-211		FTMM02-B-25
Sample ID					FTMM02-SS-B-21-2-2	FTMM02-SS-B-210-0-1.0	FTMM02-SS-B-210-2-2	FTMM02-SS-B-211-0-1.0	FTMM02-SS-B-211-2-2	FTMM02-SS-B-25-0-1.0
Sample Date					2/24/1999	6/2/1999	6/2/1999	6/2/1999	6/2/1999	2/24/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 550	NA	< 510	NA	< 590	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 280	NA	< 260	NA	< 290	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 550	NA	< 510	NA	< 590	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	**680**	NA	**1,000 B**	NA	**1,200 B**	NA
Toluene	490,000	4,700,000	76	-	< 280	NA	< 260	NA	< 290	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	**1,600**	NA	**2,900**	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	**160 J**	NA	**120 J**	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	**560 J**	NA	**310 J**	NA	< 1100
Benzo(a)pyrene	15	290	4	-	NA	**600 J**	NA	**300 J**	NA	< 1100
Benzo(b)fluoranthene	150	2,900	41	-	NA	**490 J**	NA	**260 J**	NA	< 1100
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	**380 J**	NA	**200 J**	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**490 J**	NA	**230 J**	NA	< 1100
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**120 JB**	NA	**150 JB**	NA	**220 J**
Chrysene	15,000	290,000	1,200	-	NA	**1,100 J**	NA	**680 J**	NA	< 1100
Dibenz(a,h)anthracene	15	290	13	-	NA	**150 J**	NA	< 1100	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1100	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**490 JB**	NA	**720 JB**	NA	**1,100 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**730 J**	NA	**570 J**	NA	< 1100
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	**350 J**	NA	**180 J**	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	**450 J**	NA	**570 J**	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	**840 J**	NA	**680 J**	NA	< 1100
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**165,430**	NA	**139,130**	NA	**8,200**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-21	FTMM02-B-210		FTMM02-B-211		FTMM02-B-25
Sample ID					FTMM02-SS-B-21-2-2	FTMM02-SS-B-210-0-1.0	FTMM02-SS-B-210-2-2	FTMM02-SS-B-211-0-1.0	FTMM02-SS-B-211-2-2	FTMM02-SS-B-25-0-1.0
Sample Date					2/24/1999	6/2/1999	6/2/1999	6/2/1999	6/2/1999	2/24/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.071**	NA	**0.043**	NA	< 0.0143
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.057**	NA	**0.058**	NA	**0.063**
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.037**	NA	**0.086**	NA	**0.092**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	< 0.012	NA	< 0.0119
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0111	NA	< 0.012	NA	< 0.0119
Endrin	1.8	25	0.0092	-	NA	< 0.0111	NA	< 0.012	NA	< 0.0119
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0089	NA	< 0.0096	NA	< 0.0095
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	< 0.012	NA	< 0.0119
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.355	NA	< 0.3834	NA	< 0.3805
Aroclor-1248	0.24	1	0.006	-	NA	< 0.142	NA	< 0.1534	NA	< 0.1522
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0888	NA	< 0.0959	NA	< 0.0951
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0799	NA	< 0.0863	NA	< 0.0856
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**7,020**	NA	**7,810**	NA	**16,300**
Antimony	3.1	47	0.035	ND	NA	**0.734**	NA	**1.09**	NA	**0.492**
Arsenic	0.67	3	0.0015	22.9	NA	**6.11**	NA	**8.35**	NA	**19**
Barium	1,500	22,000	16	32.3	NA	**42.3**	NA	**38.7**	NA	**28**
Beryllium	16	230	1.9	2	NA	**1.35**	NA	**1.23**	NA	**1.53**
Cadmium	7	98	0.069	ND	NA	**1.66**	NA	**1.7**	NA	< 0.12
Calcium	NLE	NLE	NLE	921	NA	**532**	NA	**679**	NA	**434**
Chromium	12,000	180,000	4,000,000	269	NA	**72**	NA	**76.3**	NA	**153**
Cobalt	2.3	35	0.027	2.5	NA	**1.88**	NA	**2.19**	NA	**1.86**
Copper	310	4,700	2.8	8	NA	**12.8**	NA	**15**	NA	**72.6**
Iron	5,500	82,000	35	55,800	NA	**18,800**	NA	**28,800**	NA	**42,600**
Lead	400	800	NLE	19.5	NA	**25**	NA	**31.8**	NA	**31.6**
Magnesium	NLE	NLE	NLE	7,230	NA	**1,590**	NA	**1,680**	NA	**5,230**
Manganese	180	2,600	2.8	90.7	NA	**22.2**	NA	**21.6**	NA	**51.1**
Mercury	2.3	35	0.0033	ND	NA	**0.287**	NA	**0.288**	NA	**0.05**
Nickel	150	2,200	2.6	8.4	NA	**11**	NA	**8.69**	NA	**7.38**
Potassium	NLE	NLE	NLE	15,400	NA	**2,980**	NA	**3,220**	NA	**11,200**
Selenium	39	580	0.052	1.9	NA	**1.35**	NA	**2**	NA	**1.29**
Silver	39	580	0.08	1.1	NA	< 0.765	NA	< 0.769	NA	< 0.718
Sodium	NLE	NLE	NLE	51.6	NA	**165**	NA	**86.3**	NA	**155**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.765	NA	**1.03**	NA	< 0.718
Vanadium	39	580	8.6	94.1	NA	**39.7**	NA	**43**	NA	**81.9**
Zinc	2,300	35,000	37	81.4	NA	**57.9**	NA	**45.5**	NA	**50.4**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-25	FTMM02-B-26		FTMM02-B-27		FTMM02-B-31
Sample ID					FTMM02-SS-B-25-2-2	FTMM02-SS-B-26-0-1.0	FTMM02-SS-B-26-2-2	FTMM02-SS-B-27-0-1.0	FTMM02-SS-B-27-2-2	FTMM02-SS-B-31-0-1.0
Sample Date					2/24/1999	2/24/1999	2/24/1999	2/24/1999	2/24/1999	3/8/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 590	NA	< 570	NA	< 700	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 290	NA	< 280	NA	< 350	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 590	NA	< 570	NA	< 700	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 590	NA	< 570	NA	< 700	NA
Toluene	490,000	4,700,000	76	-	< 290	NA	< 280	NA	< 350	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	NA	< 1600
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	NA	< 1600
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1600
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	NA	< 1600
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	NA	< 1600
Benzo(a)anthracene	150	2,900	12	-	NA	**140 J**	NA	**150 J**	NA	**340 J**
Benzo(a)pyrene	15	290	4	-	NA	**170 J**	NA	**190 J**	NA	**390 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	**200 J**	NA	**220 J**	NA	**340 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	**120 J**	NA	**120 J**	NA	**200 J**
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**170 J**	NA	**280 J**	NA	**400 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**200 J**	NA	**280 J**	NA	**530 JB**
Chrysene	15,000	290,000	1,200	-	NA	**310 J**	NA	**340 J**	NA	**680 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1100	NA	< 1600
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	NA	< 1600
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	**110 J**	NA	**320 JB**
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**210 JB**	NA	**290 JB**	NA	**1,200 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**240 J**	NA	**220 J**	NA	**600 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	NA	< 1600
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	**120 J**	NA	**210 J**
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	NA	**640 J**
Phenanthrene	NLE	NLE	NLE	-	NA	**140 J**	NA	< 1100	NA	**320 J**
Pyrene	170,000	2,300,000	1,300	-	NA	**260 J**	NA	**230 J**	NA	**670 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**13,900**	NA	**7,400**	NA	**38,900**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-25	FTMM02-B-26		FTMM02-B-27		FTMM02-B-31
Sample ID					FTMM02-SS-B-25-2-2	FTMM02-SS-B-26-0-1.0	FTMM02-SS-B-26-2-2	FTMM02-SS-B-27-0-1.0	FTMM02-SS-B-27-2-2	FTMM02-SS-B-31-0-1.0
Sample Date					2/24/1999	2/24/1999	2/24/1999	2/24/1999	2/24/1999	3/8/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.086**	NA	**0.021**	NA	**0.042**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.22**	NA	**0.05**	NA	**0.052**
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.61**	NA	**0.064**	NA	**0.044**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0114	NA	< 0.0109	NA	< 0.0159
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0114	NA	< 0.0109	NA	**0.04**
Endrin	1.8	25	0.0092	-	NA	< 0.0114	NA	< 0.0109	NA	< 0.0159
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0091	NA	< 0.0088	NA	< 0.0128
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0114	NA	< 0.0109	NA	< 0.0159
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3659	NA	< 0.3501	NA	< 0.5101
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1464	NA	< 0.14	NA	< 0.204
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0915	NA	< 0.0875	NA	< 0.1275
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0823	NA	< 0.0788	NA	< 0.1148
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**9,000**	NA	**7,550**	NA	**25,400**
Antimony	3.1	47	0.035	ND	NA	**0.555**	NA	**0.54**	NA	**2.48**
Arsenic	0.67	3	0.0015	22.9	NA	**10.2**	NA	**8.33**	NA	**37.7**
Barium	1,500	22,000	16	32.3	NA	**45.6**	NA	**40**	NA	**226**
Beryllium	16	230	1.9	2	NA	**0.954**	NA	**0.823**	NA	**7.22**
Cadmium	7	98	0.069	ND	NA	**505**	NA	**0.58**	NA	**11.4**
Calcium	NLE	NLE	NLE	921	NA	**2,680**	NA	**1,970**	NA	**2,750**
Chromium	12,000	180,000	4,000,000	269	NA	**98.7**	NA	**76.8**	NA	**165**
Cobalt	2.3	35	0.027	2.5	NA	**3.33**	NA	**1.56**	NA	**35.9**
Copper	310	4,700	2.8	8	NA	**161**	NA	**64.2**	NA	**337**
Iron	5,500	82,000	35	55,800	NA	**29,900**	NA	**24,500**	NA	**118,000**
Lead	400	800	NLE	19.5	NA	**80.1**	NA	**38.4**	NA	**163**
Magnesium	NLE	NLE	NLE	7,230	NA	**4,670**	NA	**2,820**	NA	**3,740**
Manganese	180	2,600	2.8	90.7	NA	**117**	NA	**65.4**	NA	**775**
Mercury	2.3	35	0.0033	ND	NA	**0.24**	NA	**0.13**	NA	**1.87**
Nickel	150	2,200	2.6	8.4	NA	**9.68**	NA	**5.39**	NA	**100**
Potassium	NLE	NLE	NLE	15,400	NA	**7,280**	NA	**5,980**	NA	**7,240**
Selenium	39	580	0.052	1.9	NA	**0.863**	NA	**0.982**	NA	**3.72**
Silver	39	580	0.08	1.1	NA	< 0.682	NA	< 0.695	NA	< 0.88
Sodium	NLE	NLE	NLE	51.6	NA	**236**	NA	**126**	NA	**233**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.682	NA	< 0.695	NA	< 0.88
Vanadium	39	580	8.6	94.1	NA	**53.3**	NA	**41.5**	NA	**123**
Zinc	2,300	35,000	37	81.4	NA	**102**	NA	**66.9**	NA	**683**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-31	FTMM02-B-32		FTMM02-B-33		FTMM02-B-34
Sample ID					FTMM02-SS-B-31-2-2	FTMM02-SS-B-32-0-1.0	FTMM02-SS-B-32-2-2	FTMM02-SS-B-33-0-1.0	FTMM02-SS-B-33-2-2	FTMM02-SS-B-34-0-1.0
Sample Date					3/8/1999	3/8/1999	3/8/1999	3/8/1999	3/8/1999	3/9/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 910	NA	< 750	NA	< 570	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 460	NA	< 380	NA	< 280	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 910	NA	< 750	NA	< 570	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	**8,100**	NA	**1,500**	NA	**1,800**	NA
Toluene	490,000	4,700,000	76	-	< 460	NA	< 380	NA	< 280	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	**180 J**	NA	< 1100
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	**190 J**	NA	< 1100
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	**170 J**	NA	< 1100
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	**120 J**	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	**180 J**	NA	< 1100
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**130 JB**	NA	**200 JB**	NA	**190 JB**
Chrysene	15,000	290,000	1,200	-	NA	**170 J**	NA	**360 J**	NA	**160 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1100	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1100	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**640 JB**	NA	**580 JB**	NA	**360 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**170 J**	NA	**420 J**	NA	**140 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1100	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	**110 J**	NA	**240 J**	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	**150 J**	NA	**370 J**	NA	**150 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**13,730**	NA	**4,950**	NA	**4,000**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-31	FTMM02-B-32		FTMM02-B-33		FTMM02-B-34
Sample ID					FTMM02-SS-B-31-2-2	FTMM02-SS-B-32-0-1.0	FTMM02-SS-B-32-2-2	FTMM02-SS-B-33-0-1.0	FTMM02-SS-B-33-2-2	FTMM02-SS-B-34-0-1.0
Sample Date					3/8/1999	3/8/1999	3/8/1999	3/8/1999	3/8/1999	3/9/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.092**	NA	**0.022**	NA	**0.031**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.041**	NA	**0.015**	NA	**0.028**
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.037**	NA	< 0.0239	NA	< 0.024
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0113	NA	< 0.0108	NA	< 0.0109
Dieldrin	0.033	0.14	0.000069	-	NA	**0.014**	NA	< 0.0108	NA	< 0.0109
Endrin	1.8	25	0.0092	-	NA	< 0.0113	NA	< 0.0108	NA	< 0.0109
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0091	NA	< 0.0087	NA	< 0.0087
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0113	NA	< 0.0108	NA	< 0.0109
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3627	NA	< 0.3471	NA	< 0.3488
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1451	NA	< 0.1388	NA	< 0.1395
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0907	NA	< 0.0868	NA	< 0.0872
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0816	NA	< 0.0781	NA	< 0.0785
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**10,400**	NA	**13,000**	NA	**9,360**
Antimony	3.1	47	0.035	ND	NA	**2.31**	NA	< 0.508	NA	< 0.441
Arsenic	0.67	3	0.0015	22.9	NA	**10.2**	NA	**16.3**	NA	**11**
Barium	1,500	22,000	16	32.3	NA	**40.6**	NA	**73.1**	NA	**109**
Beryllium	16	230	1.9	2	NA	**1.25**	NA	**1.85**	NA	**1.42**
Cadmium	7	98	0.069	ND	NA	**0.917**	NA	< 0.127	NA	< 0.11
Calcium	NLE	NLE	NLE	921	NA	**1,500**	NA	**958**	NA	**1,320**
Chromium	12,000	180,000	4,000,000	269	NA	**379**	NA	**228**	NA	**156**
Cobalt	2.3	35	0.027	2.5	NA	**2.46**	NA	**0.948**	NA	**1.2**
Copper	310	4,700	2.8	8	NA	**153**	NA	**66.5**	NA	**48.2**
Iron	5,500	82,000	35	55,800	NA	**25,900**	NA	**51,200**	NA	**34,500**
Lead	400	800	NLE	19.5	NA	**897**	NA	**20.6**	NA	**9.81**
Magnesium	NLE	NLE	NLE	7,230	NA	**2,480**	NA	**7,330**	NA	**4,770**
Manganese	180	2,600	2.8	90.7	NA	**23.5**	NA	**24.7**	NA	**28.5**
Mercury	2.3	35	0.0033	ND	NA	**1.07**	NA	**0.04**	NA	**0.04**
Nickel	150	2,200	2.6	8.4	NA	**14.1**	NA	**4.79**	NA	**5.19**
Potassium	NLE	NLE	NLE	15,400	NA	**5,350**	NA	**17,800**	NA	**11,200**
Selenium	39	580	0.052	1.9	NA	**0.704**	NA	**1.4**	NA	**1.09**
Silver	39	580	0.08	1.1	NA	**1.15**	NA	< 0.762	NA	< 0.662
Sodium	NLE	NLE	NLE	51.6	NA	**208**	NA	**128**	NA	**141**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.651	NA	< 0.762	NA	< 0.662
Vanadium	39	580	8.6	94.1	NA	**49.7**	NA	**82.4**	NA	**51.7**
Zinc	2,300	35,000	37	81.4	NA	**106**	NA	**72.6**	NA	**65.4**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-34	FTMM02-B-35		FTMM02-B-36		FTMM02-B-37
Sample ID					FTMM02-SS-B-34-2-2	FTMM02-SS-B-35-0-1.0	FTMM02-SS-B-35-2-2	FTMM02-SS-B-36-0-1.0	FTMM02-SS-B-36-2-2	FTMM02-SS-B-37-0-1.0
Sample Date					3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 590	NA	< 640	NA	< 570	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 290	NA	**1,500**	NA	< 280	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 590	NA	< 640	NA	< 570	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	**1,200**	NA	< 640	NA	< 570	NA
Toluene	490,000	4,700,000	76	-	< 290	NA	< 320	NA	< 280	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	**200 J**	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	**210 J**	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	**210 J**	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	**140 J**	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**120 J**	NA	**180 J**	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**180 JB**	NA	**290 JB**	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	**170 J**	NA	**350 J**	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1100	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1100	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**620 JB**	NA	**600 JB**	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	**190 J**	NA	**460 J**	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	**140 J**	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	**300 J**	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	**150 J**	NA	**370 J**	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**6,490**	NA	**13,400**	NA	**5,400**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-34	FTMM02-B-35		FTMM02-B-36		FTMM02-B-37
Sample ID					FTMM02-SS-B-34-2-2	FTMM02-SS-B-35-0-1.0	FTMM02-SS-B-35-2-2	FTMM02-SS-B-36-0-1.0	FTMM02-SS-B-36-2-2	FTMM02-SS-B-37-0-1.0
Sample Date					3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/9/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	< 0.0133	NA	**0.062**	NA	< 0.0135
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.02**	NA	**0.027**	NA	< 0.009
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0244	NA	**0.126**	NA	< 0.0247
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	**0.024**	NA	< 0.0112
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0111	NA	< 0.0105	NA	< 0.0112
Endrin	1.8	25	0.0092	-	NA	< 0.0111	NA	< 0.0105	NA	< 0.0112
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0089	NA	< 0.0084	NA	< 0.009
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	**0.029**	NA	< 0.0112
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3548	NA	< 0.3371	NA	< 0.3597
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1419	NA	< 0.1348	NA	< 0.1439
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0887	NA	< 0.0843	NA	< 0.0899
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0798	NA	< 0.0758	NA	< 0.0809
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**7,460**	NA	**4,470**	NA	**5,850**
Antimony	3.1	47	0.035	ND	NA	< 0.406	NA	**0.698**	NA	**0.571**
Arsenic	0.67	3	0.0015	22.9	NA	**7.62**	NA	**5.81**	NA	**4.3**
Barium	1,500	22,000	16	32.3	NA	**22.2**	NA	**15.8**	NA	**22.1**
Beryllium	16	230	1.9	2	NA	**0.649**	NA	**0.366**	NA	**0.504**
Cadmium	7	98	0.069	ND	NA	**0.207**	NA	**0.322**	NA	**4.97**
Calcium	NLE	NLE	NLE	921	NA	**885**	NA	**767**	NA	**461**
Chromium	12,000	180,000	4,000,000	269	NA	**66.1**	NA	**40.7**	NA	**49.7**
Cobalt	2.3	35	0.027	2.5	NA	**1.45**	NA	**1.13**	NA	**1.09**
Copper	310	4,700	2.8	8	NA	**44**	NA	**45.6**	NA	**43.2**
Iron	5,500	82,000	35	55,800	NA	**18,900**	NA	**13,400**	NA	**14,400**
Lead	400	800	NLE	19.5	NA	**18.6**	NA	**16.4**	NA	**3.88**
Magnesium	NLE	NLE	NLE	7,230	NA	**1,700**	NA	**726**	NA	**1,520**
Manganese	180	2,600	2.8	90.7	NA	**41.9**	NA	**21.2**	NA	**20.1**
Mercury	2.3	35	0.0033	ND	NA	**0.09**	NA	**0.05**	NA	**0.04**
Nickel	150	2,200	2.6	8.4	NA	**5.08**	NA	**4.57**	NA	**3.04**
Potassium	NLE	NLE	NLE	15,400	NA	**4,040**	NA	**1,450**	NA	**3,400**
Selenium	39	580	0.052	1.9	NA	< 0.609	NA	< 0.675	NA	< 0.781
Silver	39	580	0.08	1.1	NA	< 0.609	NA	< 0.675	NA	< 0.781
Sodium	NLE	NLE	NLE	51.6	NA	**194**	NA	**96.8**	NA	**75.9**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.609	NA	< 0.675	NA	< 0.781
Vanadium	39	580	8.6	94.1	NA	**51.2**	NA	**37.5**	NA	**28.7**
Zinc	2,300	35,000	37	81.4	NA	**44.6**	NA	**38.2**	NA	**20.8**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [1]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-37	FTMM02-B-38		FTMM02-B-39		FTMM02-B-4
Sample ID					FTMM02-SS-B-37-2-2	FTMM02-SS-B-38-0-1.0	FTMM02-SS-B-38-2-2	FTMM02-SS-B-39-0-1.0	FTMM02-SS-B-39-2-2	FTMM02-SS-B-4-0-1.0
Sample Date					3/9/1999	3/10/1999	3/10/1999	3/10/1999	3/10/1999	2/19/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 600	NA	< 570	NA	< 560	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 300	NA	< 290	NA	< 280	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 600	NA	< 570	NA	< 560	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 600	NA	< 570	NA	< 560	NA
Toluene	490,000	4,700,000	76	-	< 300	NA	< 290	NA	**580**	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	NA	< 1100	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	NA	< 1100	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	NA	< 1100	NA	< 1200
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	NA	< 1100	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	**120 J**	NA	< 1100	NA	< 1200
Benzo(a)pyrene	15	290	4	-	NA	**120 J**	NA	< 1100	NA	< 1200
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1200	NA	< 1100	NA	< 1200
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	< 1200
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**120 J**	NA	< 1100	NA	< 1200
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**220 JB**	NA	< 1100	NA	**230 JB**
Chrysene	15,000	290,000	1,200	-	NA	**280 J**	NA	< 1100	NA	< 1200
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	NA	< 1100	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	NA	< 1100	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	NA	< 1100	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**1,600 B**	NA	**890 JB**	NA	**280 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**200 J**	NA	< 1100	NA	< 1200
Fluorene	230,000	3,000,000	540	-	NA	< 1200	NA	< 1100	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1200	NA	< 1100	NA	< 1200
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	NA	< 1100	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	**230 J**	NA	< 1100	NA	< 1200
Pyrene	170,000	2,300,000	1,300	-	NA	**270 J**	NA	< 1100	NA	< 1200
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**8,100**	NA	**6,820**	NA	**3,800**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-37	FTMM02-B-38		FTMM02-B-39		FTMM02-B-4
Sample ID					FTMM02-SS-B-37-2-2	FTMM02-SS-B-38-0-1.0	FTMM02-SS-B-38-2-2	FTMM02-SS-B-39-0-1.0	FTMM02-SS-B-39-2-2	FTMM02-SS-B-4-0-1.0
Sample Date					3/9/1999	3/10/1999	3/10/1999	3/10/1999	3/10/1999	2/19/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.035**	NA	**0.022**	NA	< 0.0132
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.048**	NA	**0.015**	NA	< 0.0088
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.187**	NA	< 0.0231	NA	< 0.0243
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	< 0.0105	NA	< 0.011
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0111	NA	< 0.0105	NA	< 0.011
Endrin	1.8	25	0.0092	-	NA	< 0.0111	NA	< 0.0105	NA	< 0.011
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0089	NA	< 0.0084	NA	< 0.0088
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	< 0.0105	NA	< 0.011
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3559	NA	< 0.3357	NA	< 0.3529
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1424	NA	< 0.1343	NA	< 0.1412
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0809	NA	< 0.0839	NA	**1**
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0801	NA	< 0.0755	NA	< 0.0794
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**9,820**	NA	**18,400**	NA	**8,220**
Antimony	3.1	47	0.035	ND	NA	< 0.468	NA	< 0.444	NA	**1.1**
Arsenic	0.67	3	0.0015	22.9	NA	**11.4**	NA	**11.7**	NA	**8.01**
Barium	1,500	22,000	16	32.3	NA	**54.1**	NA	**117**	NA	**29.6**
Beryllium	16	230	1.9	2	NA	**1.31**	NA	**2.71**	NA	**0.871**
Cadmium	7	98	0.069	ND	NA	**26.3**	NA	**0.166**	NA	**0.245**
Calcium	NLE	NLE	NLE	921	NA	**1,050**	NA	**1,810**	NA	**521**
Chromium	12,000	180,000	4,000,000	269	NA	**132**	NA	**326**	NA	**99.3**
Cobalt	2.3	35	0.027	2.5	NA	**1.31**	NA	**0.756**	NA	**2.1**
Copper	310	4,700	2.8	8	NA	**54.8**	NA	**43.6**	NA	**41.3**
Iron	5,500	82,000	35	55,800	NA	**30,800**	NA	**60,200**	NA	**26,000**
Lead	400	800	NLE	19.5	NA	**17.3**	NA	**4.27**	NA	**31.7**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,950**	NA	**10,600**	NA	**1,930**
Manganese	180	2,600	2.8	90.7	NA	**32.5**	NA	**33.1**	NA	**51.5**
Mercury	2.3	35	0.0033	ND	NA	**0.08**	NA	**0.03**	NA	**1.58**
Nickel	150	2,200	2.6	8.4	NA	**4.87**	NA	**5.1**	NA	**6.59**
Potassium	NLE	NLE	NLE	15,400	NA	**9,150**	NA	**25,800**	NA	**4,450**
Selenium	39	580	0.052	1.9	NA	**1.13**	NA	**2.01**	NA	**1.03**
Silver	39	580	0.08	1.1	NA	< 0.701	NA	< 0.666	NA	< 0.662
Sodium	NLE	NLE	NLE	51.6	NA	**124**	NA	**243**	NA	**171**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.701	NA	< 0.666	NA	< 0.662
Vanadium	39	580	8.6	94.1	NA	**58.6**	NA	**116**	NA	**78.9**
Zinc	2,300	35,000	37	81.4	NA	**57.4**	NA	**122**	NA	**122**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-4	FTMM02-B-40		FTMM02-B-41		FTMM02-B-42
Sample ID					FTMM02-SS-B-4-2-2	FTMM02-SS-B-40-0-1.0	FTMM02-SS-B-40-2-2	FTMM02-SS-B-41-0-1.0	FTMM02-SS-B-41-2-2	FTMM02-SS-B-42-0-1.0
Sample Date					2/19/1999	3/10/1999	3/10/1999	3/10/1999	3/10/1999	3/10/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 590	NA	< 550	NA	< 540	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 300	NA	< 280	NA	< 270	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 590	NA	< 550	NA	< 540	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	**870**	NA	< 550	NA	< 540	NA
Toluene	490,000	4,700,000	76	-	< 300	NA	< 280	NA	< 270	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1200	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1200	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	**210 J**
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1200	NA	**700 J**
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1200	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	**110 J**	NA	< 1200	NA	**2,200**
Benzo(a)pyrene	15	290	4	-	NA	**120 J**	NA	< 1200	NA	**2,200**
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	< 1200	NA	**2,100**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	NA	**1,300**
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	< 1200	NA	**1,800**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**140 JB**	NA	**140 JB**	NA	**150 JB**
Chrysene	15,000	290,000	1,200	-	NA	**240 J**	NA	**200 J**	NA	**3,700**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1200	NA	**640 J**
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1200	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1200	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**400 JB**	NA	**1,100 JB**	NA	**330 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**210 J**	NA	**170 J**	NA	**5,500**
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1200	NA	**160 J**
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1200	NA	**1,300**
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1200	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	**180 J**	NA	**150 J**	NA	**2,400**
Pyrene	170,000	2,300,000	1,300	-	NA	**250 J**	NA	**190 J**	NA	**4,100**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**6,800**	NA	**8,000**	NA	**4,500**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-4	FTMM02-B-40		FTMM02-B-41		FTMM02-B-42
Sample ID					FTMM02-SS-B-4-2-2	FTMM02-SS-B-40-0-1.0	FTMM02-SS-B-40-2-2	FTMM02-SS-B-41-0-1.0	FTMM02-SS-B-41-2-2	FTMM02-SS-B-42-0-1.0
Sample Date					2/19/1999	3/10/1999	3/10/1999	3/10/1999	3/10/1999	3/10/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.087**	NA	**0.059**	NA	**0.023**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.083**	NA	**0.04**	NA	**0.029**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0228	NA	< 0.0254	NA	< 0.0255
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0104	NA	< 0.0116	NA	< 0.0116
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0104	NA	< 0.0116	NA	< 0.0116
Endrin	1.8	25	0.0092	-	NA	< 0.0104	NA	< 0.0116	NA	< 0.0116
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0083	NA	< 0.0092	NA	< 0.0093
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0104	NA	< 0.0116	NA	**0.013**
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3316	NA	< 0.3698	NA	< 0.3712
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1326	NA	< 0.1479	NA	< 0.1485
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0829	NA	< 0.0924	NA	< 0.0928
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0746	NA	< 0.0832	NA	< 0.0835
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**9,770**	NA	**8,030**	NA	**12,200**
Antimony	3.1	47	0.035	ND	NA	< 0.456	NA	< 0.483	NA	< 0.474
Arsenic	0.67	3	0.0015	22.9	NA	**10.3**	NA	**10.3**	NA	**13.5**
Barium	1,500	22,000	16	32.3	NA	**64.3**	NA	**58.1**	NA	**77.8**
Beryllium	16	230	1.9	2	NA	**1.39**	NA	**1.11**	NA	**1.81**
Cadmium	7	98	0.069	ND	NA	**1.17**	NA	< 0.121	NA	< 0.119
Calcium	NLE	NLE	NLE	921	NA	**4,230**	NA	**862**	NA	**1,630**
Chromium	12,000	180,000	4,000,000	269	NA	**143**	NA	**125**	NA	**191**
Cobalt	2.3	35	0.027	2.5	NA	**1.73**	NA	**1.45**	NA	**1.72**
Copper	310	4,700	2.8	8	NA	**45.7**	NA	**41.2**	NA	**46.2**
Iron	5,500	82,000	35	55,800	NA	**31,900**	NA	**31,700**	NA	**44,000**
Lead	400	800	NLE	19.5	NA	**19.2**	NA	**26.4**	NA	**17.8**
Magnesium	NLE	NLE	NLE	7,230	NA	**4,410**	NA	**3,860**	NA	**6,130**
Manganese	180	2,600	2.8	90.7	NA	**27.3**	NA	**17.9**	NA	**42.7**
Mercury	2.3	35	0.0033	ND	NA	**0.07**	NA	**0.05**	NA	**0.03**
Nickel	150	2,200	2.6	8.4	NA	**8.43**	NA	**9.16**	NA	**6.54**
Potassium	NLE	NLE	NLE	15,400	NA	**10,300**	NA	**8,540**	NA	**14,400**
Selenium	39	580	0.052	1.9	NA	**1.07**	NA	**1.19**	NA	**1.25**
Silver	39	580	0.08	1.1	NA	< 0.683	NA	< 0.725	NA	< 0.712
Sodium	NLE	NLE	NLE	51.6	NA	**188**	NA	**124**	NA	**176**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.683	NA	< 0.725	NA	< 0.712
Vanadium	39	580	8.6	94.1	NA	**58.4**	NA	**49.8**	NA	**70.6**
Zinc	2,300	35,000	37	81.4	NA	**61.5**	NA	**41.6**	NA	**95.6**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-42	FTMM02-B-43		FTMM02-B-44		FTMM02-B-45
Sample ID					FTMM02-SS-B-42-2-2	FTMM02-SS-B-43-0-1.0	FTMM02-SS-B-43-2-2	FTMM02-SS-B-44-0-1.0	FTMM02-SS-B-44-2-2	FTMM02-SS-B-45-0-1.0
Sample Date					3/10/1999	3/11/1999	3/11/1999	3/11/1999	3/11/1999	3/16/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 570	NA	< 640	NA	< 530	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 280	NA	< 320	NA	< 260	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 570	NA	< 640	NA	< 530	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 570	NA	< 640	NA	< 530	NA
Toluene	490,000	4,700,000	76	-	< 280	NA	< 320	NA	< 260	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	NA	< 1200	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	NA	**160 J**	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1200	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	NA	**350 J**	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	NA	< 1200	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	< 1200	NA	**840 J**	NA	**190 J**
Benzo(a)pyrene	15	290	4	-	NA	**140 J**	NA	**860 J**	NA	**210 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1200	NA	**700 J**	NA	**200 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1200	NA	**490 J**	NA	**150 J**
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1200	NA	**810 J**	NA	**240 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**150 JB**	NA	**150 JB**	NA	< 1100
Chrysene	15,000	290,000	1,200	-	NA	**190 J**	NA	**1,500**	NA	**380 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	NA	**220 J**	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	NA	< 1200	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	NA	< 1200	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**980 JB**	NA	**380 JB**	NA	**300 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**130 J**	NA	**1,800**	NA	**380 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1200	NA	**130 J**	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1200	NA	**480 J**	NA	**140 J**
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	NA	< 1200	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	< 1200	NA	**1,200**	NA	**180 J**
Pyrene	170,000	2,300,000	1,300	-	NA	**150 J**	NA	**1,500**	NA	**360 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**12,480**	NA	**6,500**	NA	**12,020**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-42	FTMM02-B-43		FTMM02-B-44		FTMM02-B-45
Sample ID					FTMM02-SS-B-42-2-2	FTMM02-SS-B-43-0-1.0	FTMM02-SS-B-43-2-2	FTMM02-SS-B-44-0-1.0	FTMM02-SS-B-44-2-2	FTMM02-SS-B-45-0-1.0
Sample Date					3/10/1999	3/11/1999	3/11/1999	3/11/1999	3/11/1999	3/16/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.173**	NA	**0.043**	NA	< 0.0137
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.078**	NA	**0.041**	NA	**0.095**
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.047**	NA	< 0.0238	NA	< 0.0252
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0115	NA	< 0.0108	NA	< 0.0115
Dieldrin	0.033	0.14	0.000069	-	NA	**0.091**	NA	< 0.0108	NA	< 0.0115
Endrin	1.8	25	0.0092	-	NA	< 0.0115	NA	< 0.0108	NA	< 0.0115
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0092	NA	< 0.0087	NA	< 0.0092
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0115	NA	< 0.0108	NA	< 0.0115
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3687	NA	< 0.3468	NA	< 0.3664
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1475	NA	< 0.1387	NA	< 0.1466
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0922	NA	< 0.0867	NA	< 0.0916
Aroclor-1260	0.24	1	0.027	-	NA	< 0.083	NA	< 0.078	NA	< 0.0824
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**12,200**	NA	**7,990**	NA	**11,600**
Antimony	3.1	47	0.035	ND	NA	**1.34**	NA	< 0.472	NA	< 0.418
Arsenic	0.67	3	0.0015	22.9	NA	**7.23**	NA	**7.93**	NA	**9.04**
Barium	1,500	22,000	16	32.3	NA	**34.6**	NA	**53**	NA	**95**
Beryllium	16	230	1.9	2	NA	**1.73**	NA	**1.12**	NA	**2.03**
Cadmium	7	98	0.069	ND	NA	< 0.112	NA	**0.3**	NA	**0.756**
Calcium	NLE	NLE	NLE	921	NA	**1,260**	NA	**1,280**	NA	**1,740**
Chromium	12,000	180,000	4,000,000	269	NA	**160**	NA	**108**	NA	**196**
Cobalt	2.3	35	0.027	2.5	NA	**1.14**	NA	**1.12**	NA	**1.65**
Copper	310	4,700	2.8	8	NA	**383**	NA	**38.4**	NA	**35.6**
Iron	5,500	82,000	35	55,800	NA	**36,600**	NA	**24,200**	NA	**44,500**
Lead	400	800	NLE	19.5	NA	**38.1**	NA	**17.6**	NA	**16.2**
Magnesium	NLE	NLE	NLE	7,230	NA	**5,030**	NA	**3,300**	NA	**6,620**
Manganese	180	2,600	2.8	90.7	NA	**14.7**	NA	**26.5**	NA	**27.3**
Mercury	2.3	35	0.0033	ND	NA	**0.39**	NA	**0.07**	NA	**0.22**
Nickel	150	2,200	2.6	8.4	NA	**6.95**	NA	**5.24**	NA	**11.1**
Potassium	NLE	NLE	NLE	15,400	NA	**12,200**	NA	**7,630**	NA	**15,200**
Selenium	39	580	0.052	1.9	NA	< 0.673	NA	**1.09**	NA	**1.7**
Silver	39	580	0.08	1.1	NA	< 0.673	NA	< 0.708	NA	< 0.628
Sodium	NLE	NLE	NLE	51.6	NA	**106**	NA	**195**	NA	**207**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.673	NA	< 0.708	NA	< 0.628
Vanadium	39	580	8.6	94.1	NA	**74.4**	NA	**47.4**	NA	**85.9**
Zinc	2,300	35,000	37	81.4	NA	**48.7**	NA	**62.1**	NA	**240**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-45	FTMM02-B-46		FTMM02-B-47		FTMM02-B-48
Sample ID					FTMM02-SS-B-45-2-2	FTMM02-SS-B-46-0-1.0	FTMM02-SS-B-46-2-2	FTMM02-SS-B-47-0-1.0	FTMM02-SS-B-47-2-2	FTMM02-SS-B-48-0-1.0
Sample Date					3/16/1999	3/16/1999	3/16/1999	3/16/1999	3/16/1999	3/16/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 590	NA	< 660	NA	< 520	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 300	NA	< 330	NA	< 260	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 590	NA	< 660	NA	< 520	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 590	NA	< 660	NA	< 520	NA
Toluene	490,000	4,700,000	76	-	< 300	NA	< 330	NA	< 260	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	NA	< 1200
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	**190 J**	NA	< 1100	NA	**140 J**
Benzo(a)pyrene	15	290	4	-	NA	**170 J**	NA	**660 J**	NA	**170 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	**120 J**	NA	**130 J**	NA	**140 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	**120 J**	NA	**160 J**	NA	< 1200
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**160 J**	NA	**140 J**	NA	**160 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**320 JB**	NA	< 1100	NA	**190 JB**
Chrysene	15,000	290,000	1,200	-	NA	**400 J**	NA	**610 J**	NA	**280 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1100	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1100	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**760 JB**	NA	**380 JB**	NA	**550 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**270 J**	NA	**150 J**	NA	**230 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1100	NA	< 1200
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	**300 J**	NA	< 1100	NA	**140 J**
Pyrene	170,000	2,300,000	1,300	-	NA	**390 J**	NA	**180 J**	NA	**250 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**9,800**	NA	ND	NA	**8,400**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-45	FTMM02-B-46		FTMM02-B-47		FTMM02-B-48
Sample ID					FTMM02-SS-B-45-2-2	FTMM02-SS-B-46-0-1.0	FTMM02-SS-B-46-2-2	FTMM02-SS-B-47-0-1.0	FTMM02-SS-B-47-2-2	FTMM02-SS-B-48-0-1.0
Sample Date					3/16/1999	3/16/1999	3/16/1999	3/16/1999	3/16/1999	3/16/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.116**	NA	**0.038**	NA	**0.029**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.098**	NA	**0.05**	NA	**0.032**
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.058**	NA	**0.305**	NA	< 0.0259
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0114	NA	< 0.0113	NA	**0.017**
Dieldrin	0.033	0.14	0.000069	-	NA	**0.015**	NA	**0.019**	NA	< 0.0118
Endrin	1.8	25	0.0092	-	NA	< 0.0114	NA	**0.019**	NA	< 0.0118
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0091	NA	**0.009**	NA	< 0.0094
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0114	NA	< 0.0113	NA	**0.021**
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3633	NA	< 0.361	NA	< 0.3765
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1453	NA	< 0.1444	NA	< 0.1506
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0908	NA	< 0.0903	NA	< 0.0941
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0817	NA	< 0.0812	NA	< 0.0847
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**8,680**	NA	**11,400**	NA	**8,380**
Antimony	3.1	47	0.035	ND	NA	< 0.46	NA	**0.475**	NA	< 0.394
Arsenic	0.67	3	0.0015	22.9	NA	**15**	NA	**13.2**	NA	**13.9**
Barium	1,500	22,000	16	32.3	NA	**54.9**	NA	**47.7**	NA	**69.6**
Beryllium	16	230	1.9	2	NA	**1.15**	NA	**1.52**	NA	**1.32**
Cadmium	7	98	0.069	ND	NA	< 0.115	NA	< 0.107	NA	**0.431**
Calcium	NLE	NLE	NLE	921	NA	**1,040**	NA	**1,770**	NA	**1,570**
Chromium	12,000	180,000	4,000,000	269	NA	**126**	NA	**139**	NA	**118**
Cobalt	2.3	35	0.027	2.5	NA	**1.27**	NA	**1.53**	NA	**1.26**
Copper	310	4,700	2.8	8	NA	**27.2**	NA	**34.6**	NA	**44**
Iron	5,500	82,000	35	55,800	NA	**31,400**	NA	**40,400**	NA	**29,900**
Lead	400	800	NLE	19.5	NA	**20**	NA	**16.2**	NA	**28.3**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,840**	NA	**4,960**	NA	**3,870**
Manganese	180	2,600	2.8	90.7	NA	**21.4**	NA	**29.6**	NA	**40.3**
Mercury	2.3	35	0.0033	ND	NA	**0.1**	NA	**0.06**	NA	**0.05**
Nickel	150	2,200	2.6	8.4	NA	**5.35**	NA	**7.59**	NA	**5.7**
Potassium	NLE	NLE	NLE	15,400	NA	**8,900**	NA	**11,700**	NA	**9,240**
Selenium	39	580	0.052	1.9	NA	**1.72**	NA	**0.818**	NA	**1.63**
Silver	39	580	0.08	1.1	NA	< 0.69	NA	< 0.642	NA	< 0.591
Sodium	NLE	NLE	NLE	51.6	NA	**292**	NA	**147**	NA	**178**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.69	NA	< 0.642	NA	< 0.591
Vanadium	39	580	8.6	94.1	NA	**51.3**	NA	**76.4**	NA	**43**
Zinc	2,300	35,000	37	81.4	NA	**49.2**	NA	**76.8**	NA	**82.4**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-48	FTMM02-B-49		FTMM02-B-5		FTMM02-B-50
Sample ID					FTMM02-SS-B-48-2-2	FTMM02-SS-B-49-0-1.0	FTMM02-SS-B-49-2-2	FTMM02-SS-B-5-0-1.0	FTMM02-SS-B-5-2-2	FTMM02-SS-B-50-0-1.0
Sample Date					3/16/1999	3/17/1999	3/17/1999	2/19/1999	2/19/1999	3/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 560	NA	< 590	NA	< 560	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 280	NA	< 290	NA	< 280	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 560	NA	< 590	NA	< 560	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 560	NA	< 590	NA	< 560	NA
Toluene	490,000	4,700,000	76	-	< 280	NA	< 290	NA	< 280	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	**5,500**	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1300	NA	< 1000	NA	< 1400
Acenaphthene	350,000	4,500,000	550	-	NA	< 1300	NA	< 1000	NA	< 1400
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1300	NA	< 1000	NA	< 1400
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1300	NA	< 1000	NA	< 1400
Azobenzene	5,600	26,000	0.92	-	NA	< 1300	NA	< 1000	NA	< 1400
Benzo(a)anthracene	150	2,900	12	-	NA	**180 J**	NA	< 1000	NA	**260 J**
Benzo(a)pyrene	15	290	4	-	NA	**170 J**	NA	< 1000	NA	**310 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	**320 J**	NA	< 1000	NA	**290 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	**130 J**	NA	< 1000	NA	**320 J**
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**290 J**	NA	< 1000	NA	**210 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1300	NA	**120 JB**	NA	**190 JB**
Chrysene	15,000	290,000	1,200	-	NA	**610 J**	NA	< 1000	NA	**530 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1300	NA	< 1000	NA	< 1400
Dibenzofuran	7,200	100,000	15	-	NA	< 1300	NA	< 1000	NA	< 1400
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1300	NA	< 1000	NA	< 1400
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**380 JB**	NA	**280 JB**	NA	**700 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1300	NA	< 1000	NA	**370 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1300	NA	< 1000	NA	< 1400
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	**140 J**	NA	< 1000	NA	**210 J**
Naphthalene	3,800	17,000	0.54	-	NA	< 1300	NA	< 1000	NA	< 1400
Phenanthrene	NLE	NLE	NLE	-	NA	< 1300	NA	< 1000	NA	**200 J**
Pyrene	170,000	2,300,000	1,300	-	NA	**170 J**	NA	< 1000	NA	**420 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**11,500**	NA	**3,100**	NA	**8,000**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-48	FTMM02-B-49		FTMM02-B-5		FTMM02-B-50
Sample ID					FTMM02-SS-B-48-2-2	FTMM02-SS-B-49-0-1.0	FTMM02-SS-B-49-2-2	FTMM02-SS-B-5-0-1.0	FTMM02-SS-B-5-2-2	FTMM02-SS-B-50-0-1.0
Sample Date					3/16/1999	3/17/1999	3/17/1999	2/19/1999	2/19/1999	3/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.195**	NA	< 0.0127	NA	**0.133**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.158**	NA	**0.016**	NA	**0.109**
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.105**	NA	**0.04**	NA	**0.116**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0132	NA	< 0.0106	NA	< 0.0115
Dieldrin	0.033	0.14	0.000069	-	NA	**0.074**	NA	< 0.0106	NA	< 0.0115
Endrin	1.8	25	0.0092	-	NA	< 0.0132	NA	< 0.0106	NA	< 0.0115
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0105	NA	< 0.0085	NA	< 0.0092
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0132	NA	< 0.0106	NA	< 0.0115
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.4213	NA	< 0.3395	NA	< 0.0184
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1685	NA	< 0.1358	NA	< 0.0074
Aroclor-1254	0.11	1	0.01	-	NA	< 0.1053	NA	< 0.0849	NA	< 0.0046
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0948	NA	< 0.0764	NA	**0.329**
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**12,500**	NA	**3,930**	NA	**6,730**
Antimony	3.1	47	0.035	ND	NA	< 0.531	NA	**1.4**	NA	< 0.465
Arsenic	0.67	3	0.0015	22.9	NA	**12.4**	NA	**11.2**	NA	**7.92**
Barium	1,500	22,000	16	32.3	NA	**27.1**	NA	**12.9**	NA	**54.3**
Beryllium	16	230	1.9	2	NA	**1.47**	NA	**0.488**	NA	**1.16**
Cadmium	7	98	0.069	ND	NA	< 0.133	NA	**0.525**	NA	< 0.116
Calcium	NLE	NLE	NLE	921	NA	**1,920**	NA	**275**	NA	**907**
Chromium	12,000	180,000	4,000,000	269	NA	**163**	NA	**69.6**	NA	**89.3**
Cobalt	2.3	35	0.027	2.5	NA	**2.29**	NA	**2.26**	NA	**1.01**
Copper	310	4,700	2.8	8	NA	**11.6**	NA	**29.6**	NA	**6.23**
Iron	5,500	82,000	35	55,800	NA	**37,700**	NA	**16,700**	NA	**23,000**
Lead	400	800	NLE	19.5	NA	**21.7**	NA	**28.9**	NA	**15.8**
Magnesium	NLE	NLE	NLE	7,230	NA	**4,610**	NA	**986**	NA	**2,530**
Manganese	180	2,600	2.8	90.7	NA	**41.4**	NA	**2,450**	NA	**19.9**
Mercury	2.3	35	0.0033	ND	NA	**0.089**	NA	**0.39**	NA	**0.052**
Nickel	150	2,200	2.6	8.4	NA	**8.21**	NA	**7.16**	NA	**5.1**
Potassium	NLE	NLE	NLE	15,400	NA	**11,100**	NA	**2,430**	NA	**6,300**
Selenium	39	580	0.052	1.9	NA	**2.02**	NA	**1.66**	NA	**1.67**
Silver	39	580	0.08	1.1	NA	< 0.796	NA	< 0.727	NA	< 0.697
Sodium	NLE	NLE	NLE	51.6	NA	**253**	NA	**80.2**	NA	**97.9**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.796	NA	< 0.727	NA	< 0.697
Vanadium	39	580	8.6	94.1	NA	**45.2**	NA	**51.7**	NA	**30.9**
Zinc	2,300	35,000	37	81.4	NA	**91.8**	NA	**2,720**	NA	**54.6**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-50	FTMM02-B-51		FTMM02-B-52		
Sample ID					FTMM02-SS-B-50-2-2	FTMM02-SS-B-51-0-1.0	FTMM02-SS-B-51-2-2	FTMM02-SS-B-52-0-1.0	FTMM02-SS-B-52-0-1.0-Dup	FTMM02-SS-B-52-2-2
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 580	NA	< 540	NA	NA	< 850
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 290	NA	< 270	NA	NA	< 430
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 580	NA	< 540	NA	NA	< 850
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 580	NA	< 540	NA	NA	< 850
Toluene	490,000	4,700,000	76	-	< 290	NA	< 270	NA	NA	< 430
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**15,000**	NA	ND	NA	NA	**14,000**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1200	< 1200	NA
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1200	< 1200	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	< 1200	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1200	< 1200	NA
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1200	< 1200	NA
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	< 1200	< 1200	NA
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	< 1200	< 1200	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	< 1200	< 1200	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	< 1200	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	< 1200	< 1200	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**150 JB**	NA	< 1200	< 1200	NA
Chrysene	15,000	290,000	1,200	-	NA	**180 J**	NA	< 1200	< 1200	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1200	< 1200	NA
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1200	< 1200	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1200	< 1200	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**160 JB**	NA	**830 JB**	**610 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	**150 J**	NA	< 1200	< 1200	NA
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1200	< 1200	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1200	< 1200	NA
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1200	< 1200	NA
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1200	< 1200	NA
Pyrene	170,000	2,300,000	1,300	-	NA	**190 J**	NA	< 1200	< 1200	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**8,700**	NA	**7,900**	**7,200**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-50	FTMM02-B-51		FTMM02-B-52		
Sample ID					FTMM02-SS-B-50-2-2	FTMM02-SS-B-51-0-1.0	FTMM02-SS-B-51-2-2	FTMM02-SS-B-52-0-1.0	FTMM02-SS-B-52-0-1.0-Dup	FTMM02-SS-B-52-2-2
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.106**	NA	**0.024**	**0.032**	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.047**	NA	**0.031**	**0.041**	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.083**	NA	**0.052**	**0.067**	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0119	NA	< 0.0117	< 0.0119	NA
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0119	NA	< 0.0117	< 0.0119	NA
Endrin	1.8	25	0.0092	-	NA	< 0.0119	NA	< 0.0117	< 0.0119	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0095	NA	< 0.0094	< 0.0095	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0119	NA	< 0.0117	< 0.0119	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.381	NA	< 0.3744	< 0.3812	NA
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1524	NA	< 0.1498	< 0.1525	NA
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0953	NA	< 0.0936	< 0.0953	NA
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0857	NA	< 0.0843	< 0.0858	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**7,310**	NA	**8,120**	**11,300**	NA
Antimony	3.1	47	0.035	ND	NA	< 0.49	NA	< 0.416	< 0.489	NA
Arsenic	0.67	3	0.0015	22.9	NA	**10.4**	NA	**8.57**	**8.88**	NA
Barium	1,500	22,000	16	32.3	NA	**67.3**	NA	**48.6**	**57.8**	NA
Beryllium	16	230	1.9	2	NA	**1.19**	NA	**0.966**	**1.27**	NA
Cadmium	7	98	0.069	ND	NA	< 0.123	NA	< 0.104	< 0.122	NA
Calcium	NLE	NLE	NLE	921	NA	**1,130**	NA	**611**	**736**	NA
Chromium	12,000	180,000	4,000,000	269	NA	**101**	NA	**104**	**128**	NA
Cobalt	2.3	35	0.027	2.5	NA	**1.17**	NA	**0.964**	**1.27**	NA
Copper	310	4,700	2.8	8	NA	**7.88**	NA	**4.99**	**7.39**	NA
Iron	5,500	82,000	35	55,800	NA	**24,900**	NA	**24,000**	**29,000**	NA
Lead	400	800	NLE	19.5	NA	**18.1**	NA	**16.2**	**28.6**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	**2,480**	NA	**2,720**	**3,250**	NA
Manganese	180	2,600	2.8	90.7	NA	**20.1**	NA	**16.4**	**26**	NA
Mercury	2.3	35	0.0033	ND	NA	**0.026**	NA	**0.027**	**0.049**	NA
Nickel	150	2,200	2.6	8.4	NA	**5.72**	NA	**4.33**	**5.47**	NA
Potassium	NLE	NLE	NLE	15,400	NA	**5,980**	NA	**6,180**	**7,390**	NA
Selenium	39	580	0.052	1.9	NA	**2.12**	NA	**1.56**	**1.15**	NA
Silver	39	580	0.08	1.1	NA	< 0.736	NA	< 0.624	< 0.734	NA
Sodium	NLE	NLE	NLE	51.6	NA	**103**	NA	**91.8**	**107**	NA
Thallium	0.078	1.2	0.0014	ND	NA	< 0.736	NA	< 0.624	< 0.734	NA
Vanadium	39	580	8.6	94.1	NA	**38.1**	NA	**41.8**	**56.6**	NA
Zinc	2,300	35,000	37	81.4	NA	**50.4**	NA	**42.2**	**47.1**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-52	FTMM02-B-53		FTMM02-B-54		FTMM02-B-55
Sample ID					FTMM02-SS-B-52-2-2-Dup	FTMM02-SS-B-53-0-1.0	FTMM02-SS-B-53-2-2	FTMM02-SS-B-54-0-1.0	FTMM02-SS-B-54-2-2	FTMM02-SS-B-55-0-1.0
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 830	NA	< 560	NA	< 500	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 410	NA	< 280	NA	< 250	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	**140 J**	NA	< 560	NA	< 500	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 830	NA	< 560	NA	< 500	NA
Toluene	490,000	4,700,000	76	-	< 410	NA	< 280	NA	< 250	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	**8,000**	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	NA	< 1100	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	NA	< 1100	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	NA	< 1100	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	< 1200	NA	< 1100	NA	**880 J**
Benzo(a)pyrene	15	290	4	-	NA	< 1200	NA	< 1100	NA	**1,000 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1200	NA	< 1100	NA	**1,100 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	**760 J**
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1200	NA	< 1100	NA	**970 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1200	NA	**150 JB**	NA	**140 J**
Chrysene	15,000	290,000	1,200	-	NA	**200 J**	NA	< 1100	NA	**1,500**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	NA	< 1100	NA	**250 J**
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	NA	< 1100	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	NA	< 1100	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	< 1200	NA	**640 JB**	NA	**430 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**200 J**	NA	< 1100	NA	**780 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1200	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1200	NA	< 1100	NA	**780 J**
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	NA	< 1100	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	**130 J**	NA	< 1100	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	**270 J**	NA	< 1100	NA	**630 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**5,860**	NA	**5,200**	NA	**6,600**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-52	FTMM02-B-53		FTMM02-B-54		FTMM02-B-55
Sample ID					FTMM02-SS-B-52-2-2-Dup	FTMM02-SS-B-53-0-1.0	FTMM02-SS-B-53-2-2	FTMM02-SS-B-54-0-1.0	FTMM02-SS-B-54-2-2	FTMM02-SS-B-55-0-1.0
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.037**	NA	< 0.0139	NA	**0.015**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.048**	NA	**0.014**	NA	**0.028**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0259	NA	< 0.0254	NA	< 0.0248
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0118	NA	< 0.0116	NA	< 0.0113
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0118	NA	< 0.0116	NA	< 0.0113
Endrin	1.8	25	0.0092	-	NA	< 0.0118	NA	< 0.0116	NA	< 0.0113
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0094	NA	< 0.0092	NA	< 0.009
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0118	NA	< 0.0116	NA	< 0.0113
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3767	NA	< 0.3698	NA	< 0.361
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1507	NA	< 0.1479	NA	< 0.1444
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0942	NA	< 0.0925	NA	< 0.0903
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0848	NA	< 0.0832	NA	< 0.0812
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**5,860**	NA	**5,840**	NA	**6,320**
Antimony	3.1	47	0.035	ND	NA	< 0.472	NA	< 0.447	NA	< 0.405
Arsenic	0.67	3	0.0015	22.9	NA	**11.1**	NA	**6.67**	NA	**6.67**
Barium	1,500	22,000	16	32.3	NA	**63.6**	NA	**36.3**	NA	**26.2**
Beryllium	16	230	1.9	2	NA	**1**	NA	**0.637**	NA	**0.669**
Cadmium	7	98	0.069	ND	NA	< 0.118	NA	**0.219**	NA	< 0.101
Calcium	NLE	NLE	NLE	921	NA	**2,910**	NA	**5,050**	NA	**767**
Chromium	12,000	180,000	4,000,000	269	NA	**72.7**	NA	**63.7**	NA	**56.9**
Cobalt	2.3	35	0.027	2.5	NA	**2.49**	NA	**1.4**	NA	**1.02**
Copper	310	4,700	2.8	8	NA	**11.7**	NA	**20.5**	NA	**2.17**
Iron	5,500	82,000	35	55,800	NA	**21,300**	NA	**19,300**	NA	**19,700**
Lead	400	800	NLE	19.5	NA	**18.1**	NA	**36.7**	NA	**5.27**
Magnesium	NLE	NLE	NLE	7,230	NA	**1,900**	NA	**2,350**	NA	**1,790**
Manganese	180	2,600	2.8	90.7	NA	**28.2**	NA	**123**	NA	**39.6**
Mercury	2.3	35	0.0033	ND	NA	**0.027**	NA	**0.216**	NA	< 0.026
Nickel	150	2,200	2.6	8.4	NA	**9.07**	NA	**6.42**	NA	**3.81**
Potassium	NLE	NLE	NLE	15,400	NA	**4,900**	NA	**4,890**	NA	**4,270**
Selenium	39	580	0.052	1.9	NA	**1.94**	NA	**1.28**	NA	< 0.608
Silver	39	580	0.08	1.1	NA	< 0.708	NA	< 0.671	NA	< 0.608
Sodium	NLE	NLE	NLE	51.6	NA	**103**	NA	**120**	NA	**45.1**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.708	NA	< 0.671	NA	< 0.608
Vanadium	39	580	8.6	94.1	NA	**26.2**	NA	**30.7**	NA	**27.6**
Zinc	2,300	35,000	37	81.4	NA	**49.6**	NA	**96.8**	NA	**20.8**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-55	FTMM02-B-56		FTMM02-B-57		FTMM02-B-58
Sample ID					FTMM02-SS-B-55-2-2	FTMM02-SS-B-56-0-1.0	FTMM02-SS-B-56-2-2	FTMM02-SS-B-57-0-1.0	FTMM02-SS-B-57-2-2	FTMM02-SS-B-58-0-1.0
Sample Date					3/17/1999	3/18/1999	3/18/1999	3/18/1999	3/18/1999	3/18/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 590	NA	< 740	NA	< 540	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 290	NA	< 370	NA	< 270	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 590	NA	< 740	NA	< 540	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 590	NA	< 740	NA	< 540	NA
Toluene	490,000	4,700,000	76	-	< 290	NA	< 370	NA	< 270	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**9,600**	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	NA	< 1100	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	NA	< 1100	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	NA	< 1100	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	**130 J**	NA	< 1100	NA	**220 J**
Benzo(a)pyrene	15	290	4	-	NA	**120 J**	NA	< 1100	NA	**240 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1200	NA	< 1100	NA	**250 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	**150 J**
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1200	NA	< 1100	NA	**200 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**190 J**	NA	**150 J**	NA	**130 J**
Chrysene	15,000	290,000	1,200	-	NA	**220 J**	NA	< 1100	NA	**420 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	NA	< 1100	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	NA	< 1100	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	NA	< 1100	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**130 JB**	NA	**400 JB**	NA	**150 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**230 J**	NA	< 1100	NA	**460 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1200	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1200	NA	< 1100	NA	**140 J**
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	NA	< 1100	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	**250 J**
Pyrene	170,000	2,300,000	1,300	-	NA	**220 J**	NA	< 1100	NA	**400 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**14,100**	NA	**3,600**	NA	**3,800**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-55	FTMM02-B-56		FTMM02-B-57		FTMM02-B-58
Sample ID					FTMM02-SS-B-55-2-2	FTMM02-SS-B-56-0-1.0	FTMM02-SS-B-56-2-2	FTMM02-SS-B-57-0-1.0	FTMM02-SS-B-57-2-2	FTMM02-SS-B-58-0-1.0
Sample Date					3/17/1999	3/18/1999	3/18/1999	3/18/1999	3/18/1999	3/18/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.017**	NA	**0.023**	NA	**0.03**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.018**	NA	**0.016**	NA	**0.033**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0261	NA	< 0.0248	NA	< 0.0244
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0119	NA	< 0.0113	NA	< 0.0111
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0119	NA	< 0.0113	NA	< 0.0111
Endrin	1.8	25	0.0092	-	NA	< 0.0119	NA	< 0.0113	NA	< 0.0111
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0095	NA	< 0.009	NA	< 0.0089
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0119	NA	< 0.0113	NA	< 0.0111
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3801	NA	< 0.3602	NA	< 0.3545
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1521	NA	< 0.1441	NA	< 0.1418
Aroclor-1254	0.11	1	0.01	-	NA	< 0.095	NA	< 0.0901	NA	< 0.0886
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0855	NA	< 0.0811	NA	< 0.0798
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**4,140**	NA	**4,690**	NA	**4,590**
Antimony	3.1	47	0.035	ND	NA	**0.677**	NA	< 0.408	NA	< 0.438
Arsenic	0.67	3	0.0015	22.9	NA	**9.78**	NA	**6.36**	NA	**5.85**
Barium	1,500	22,000	16	32.3	NA	**46.5**	NA	**34.5**	NA	**19.1**
Beryllium	16	230	1.9	2	NA	**0.535**	NA	**0.741**	NA	**0.569**
Cadmium	7	98	0.069	ND	NA	**0.323**	NA	< 0.102	NA	< 0.11
Calcium	NLE	NLE	NLE	921	NA	**4,310**	NA	**629**	NA	**459**
Chromium	12,000	180,000	4,000,000	269	NA	**49.5**	NA	**64.6**	NA	**58.4**
Cobalt	2.3	35	0.027	2.5	NA	**1.49**	NA	**0.83**	NA	**0.804**
Copper	310	4,700	2.8	8	NA	**33.4**	NA	**6.75**	NA	**6.88**
Iron	5,500	82,000	35	55,800	NA	**15,900**	NA	**17,700**	NA	**13,800**
Lead	400	800	NLE	19.5	NA	**41.9**	NA	**8.49**	NA	**13**
Magnesium	NLE	NLE	NLE	7,230	NA	**1,770**	NA	**1,860**	NA	**1,480**
Manganese	180	2,600	2.8	90.7	NA	**83.4**	NA	**13.3**	NA	**8.5**
Mercury	2.3	35	0.0033	ND	NA	**0.401**	NA	**0.078**	NA	**0.091**
Nickel	150	2,200	2.6	8.4	NA	**5.9**	NA	**3.69**	NA	**3.44**
Potassium	NLE	NLE	NLE	15,400	NA	**3,300**	NA	**4,400**	NA	**3,510**
Selenium	39	580	0.052	1.9	NA	**1.11**	NA	**1.41**	NA	< 0.657
Silver	39	580	0.08	1.1	NA	< 0.721	NA	< 0.613	NA	< 0.657
Sodium	NLE	NLE	NLE	51.6	NA	**165**	NA	**94.4**	NA	**118**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.721	NA	< 0.613	NA	< 0.657
Vanadium	39	580	8.6	94.1	NA	**25.9**	NA	**25.9**	NA	**26.5**
Zinc	2,300	35,000	37	81.4	NA	**126**	NA	**34.7**	NA	**27.9**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-58	FTMM02-B-59		FTMM02-B-59A		FTMM02-B-6
Sample ID					FTMM02-SS-B-58-2-2	FTMM02-SS-B-59-0-1.0	FTMM02-SS-B-59-2-2	FTMM02-SS-B-59A-0-1.0	FTMM02-SS-B-59A-2-2	FTMM02-SS-B-6-0-1.0
Sample Date					3/18/1999	3/18/1999	3/18/1999	3/23/1999	3/23/1999	2/19/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 580	NA	< 660	NA	< 540	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 290	NA	< 330	NA	< 270	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 580	NA	< 660	NA	< 540	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 580	NA	< 660	NA	< 540	NA
Toluene	490,000	4,700,000	76	-	< 290	NA	< 330	NA	< 270	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	**120 J**	NA	< 1100	NA	< 1100
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	< 1100	NA	< 1100
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1100	NA	**110 J**	NA	**140 JB**
Chrysene	15,000	290,000	1,200	-	NA	**200 J**	NA	**180 J**	NA	**170 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1100	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1100	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	< 1100	NA	**160 JB**	NA	**840 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**150 J**	NA	**140 J**	NA	**170 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1100	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	**150 J**	NA	**140 J**	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	**230 J**	NA	**220 J**	NA	**150 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**1,100**	NA	**4,800**	NA	**5,250**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-58	FTMM02-B-59		FTMM02-B-59A		FTMM02-B-6
Sample ID					FTMM02-SS-B-58-2-2	FTMM02-SS-B-59-0-1.0	FTMM02-SS-B-59-2-2	FTMM02-SS-B-59A-0-1.0	FTMM02-SS-B-59A-2-2	FTMM02-SS-B-6-0-1.0
Sample Date					3/18/1999	3/18/1999	3/18/1999	3/23/1999	3/23/1999	2/19/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.046**	NA	**0.047**	NA	**0.021**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.028**	NA	**0.026**	NA	**0.019**
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.041**	NA	**0.065**	NA	< 0.0238
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0113	NA	< 0.0114	NA	< 0.0108
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0113	NA	< 0.0114	NA	< 0.0108
Endrin	1.8	25	0.0092	-	NA	< 0.0113	NA	< 0.0114	NA	< 0.0108
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0091	NA	< 0.0091	NA	< 0.0086
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0113	NA	< 0.0114	NA	< 0.0108
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3628	NA	< 0.3658	NA	< 0.3458
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1451	NA	< 0.1463	NA	< 0.1383
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0907	NA	< 0.0914	NA	< 0.0865
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0816	NA	< 0.0823	NA	< 0.0778
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**8,650**	NA	**7,740**	NA	**14,800**
Antimony	3.1	47	0.035	ND	NA	< 0.453	NA	< 0.48	NA	**0.941**
Arsenic	0.67	3	0.0015	22.9	NA	**11.8**	NA	**12.3**	NA	**12.7**
Barium	1,500	22,000	16	32.3	NA	**57.3**	NA	**60**	NA	**46.3**
Beryllium	16	230	1.9	2	NA	**1.41**	NA	**1.26**	NA	**1.49**
Cadmium	7	98	0.069	ND	NA	**0.484**	NA	< 0.12	NA	**0.506**
Calcium	NLE	NLE	NLE	921	NA	**1,220**	NA	**990**	NA	**1,900**
Chromium	12,000	180,000	4,000,000	269	NA	**133**	NA	**118**	NA	**88.9**
Cobalt	2.3	35	0.027	2.5	NA	**1.37**	NA	**1.19**	NA	**3.81**
Copper	310	4,700	2.8	8	NA	**11.5**	NA	**10.2**	NA	**16.4**
Iron	5,500	82,000	35	55,800	NA	**30,000**	NA	**28,400**	NA	**39,900**
Lead	400	800	NLE	19.5	NA	**13.8**	NA	**17.1**	NA	**21.1**
Magnesium	NLE	NLE	NLE	7,230	NA	**3,710**	NA	**3,220**	NA	**3,310**
Manganese	180	2,600	2.8	90.7	NA	**19.1**	NA	**19.2**	NA	**89.5**
Mercury	2.3	35	0.0033	ND	NA	**0.071**	NA	**0.079**	NA	**0.14**
Nickel	150	2,200	2.6	8.4	NA	**5.9**	NA	**5.18**	NA	**15.1**
Potassium	NLE	NLE	NLE	15,400	NA	**8,580**	NA	**7,640**	NA	**6,950**
Selenium	39	580	0.052	1.9	NA	**1.8**	NA	**1.66**	NA	**0.727**
Silver	39	580	0.08	1.1	NA	< 0.68	NA	< 0.72	NA	< 0.717
Sodium	NLE	NLE	NLE	51.6	NA	**219**	NA	**225**	NA	**110**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.68	NA	< 0.72	NA	< 0.717
Vanadium	39	580	8.6	94.1	NA	**44.7**	NA	**43.8**	NA	**60.3**
Zinc	2,300	35,000	37	81.4	NA	**62.8**	NA	**61.4**	NA	**242**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-6	FTMM02-B-60		FTMM02-B-61		FTMM02-B-62
Sample ID					FTMM02-SS-B-6-2-2	FTMM02-SS-B-60-0-1.0	FTMM02-SS-B-60-2-2	FTMM02-SS-B-61-0-1.0	FTMM02-SS-B-61-2-2	FTMM02-SS-B-62-0-1.0
Sample Date					2/19/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 570	NA	< 560	NA	< 540	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 290	NA	< 280	NA	< 270	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 570	NA	< 560	NA	< 540	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 570	NA	**1,000**	NA	**920**	NA
Toluene	490,000	4,700,000	76	-	< 290	NA	< 280	NA	< 270	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	NA	< 1100	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	NA	< 1100	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1100	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	NA	**230 J**	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	NA	< 1100	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	**130 J**	NA	**670 J**	NA	**180 J**
Benzo(a)pyrene	15	290	4	-	NA	< 1200	NA	**510 J**	NA	**150 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1200	NA	**410 J**	NA	**120 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1200	NA	**360 J**	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1200	NA	**440 J**	NA	**130 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1200	NA	< 1100	NA	< 1100
Chrysene	15,000	290,000	1,200	-	NA	**180 J**	NA	**900 J**	NA	**270 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	NA	< 1100	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	NA	< 1100	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	NA	< 1100	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**180 JB**	NA	**120 JB**	NA	**130 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**180 J**	NA	**1,500**	NA	**280 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1200	NA	< 1100	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1200	NA	**310 J**	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	NA	< 1100	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	< 1200	NA	**890 J**	NA	**150 J**
Pyrene	170,000	2,300,000	1,300	-	NA	**210 J**	NA	**1,300**	NA	**270 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**2,500**	NA	**960**	NA	ND

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-6	FTMM02-B-60		FTMM02-B-61		FTMM02-B-62
Sample ID					FTMM02-SS-B-6-2-2	FTMM02-SS-B-60-0-1.0	FTMM02-SS-B-60-2-2	FTMM02-SS-B-61-0-1.0	FTMM02-SS-B-61-2-2	FTMM02-SS-B-62-0-1.0
Sample Date					2/19/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.044**	NA	**0.02**	NA	**0.047**
4,4'-DDE	1.6	6.8	0.054	-	NA	< 0.0093	NA	**0.017**	NA	**0.024**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0257	NA	**0.026**	NA	< 0.0249
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0117	NA	< 0.0114	NA	< 0.0113
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0117	NA	< 0.0114	NA	< 0.0113
Endrin	1.8	25	0.0092	-	NA	< 0.0117	NA	< 0.0114	NA	< 0.0113
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0093	NA	< 0.0091	NA	< 0.0091
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0117	NA	< 0.0114	NA	< 0.0113
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.0187	NA	< 0.3657	NA	< 0.3628
Aroclor-1248	0.24	1	0.006	-	NA	< 0.0075	NA	< 0.1463	NA	< 0.1451
Aroclor-1254	0.11	1	0.01	-	NA	**0.651**	NA	< 0.0914	NA	< 0.0907
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0042	NA	< 0.0823	NA	< 0.0816
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**6,100**	NA	**10,400**	NA	**2,990**
Antimony	3.1	47	0.035	ND	NA	< 0.455	NA	**0.903**	NA	**0.529**
Arsenic	0.67	3	0.0015	22.9	NA	**8.53**	NA	**11.4**	NA	**3.34**
Barium	1,500	22,000	16	32.3	NA	**38.1**	NA	**39.8**	NA	**19.2**
Beryllium	16	230	1.9	2	NA	**0.92**	NA	**1.66**	NA	**0.255**
Cadmium	7	98	0.069	ND	NA	< 0.114	NA	**0.225**	NA	**0.655**
Calcium	NLE	NLE	NLE	921	NA	**759**	NA	**1,390**	NA	**299**
Chromium	12,000	180,000	4,000,000	269	NA	**89.4**	NA	**126**	NA	**14.3**
Cobalt	2.3	35	0.027	2.5	NA	**0.93**	NA	**1.45**	NA	**0.727**
Copper	310	4,700	2.8	8	NA	**7.05**	NA	**12.8**	NA	**10.6**
Iron	5,500	82,000	35	55,800	NA	**23,800**	NA	**31,200**	NA	**4,420**
Lead	400	800	NLE	19.5	NA	**13.8**	NA	**18.2**	NA	**22.7**
Magnesium	NLE	NLE	NLE	7,230	NA	**2,450**	NA	**3,880**	NA	**285**
Manganese	180	2,600	2.8	90.7	NA	**16.9**	NA	**31.5**	NA	**9.4**
Mercury	2.3	35	0.0033	ND	NA	**0.06**	NA	**0.133**	NA	**0.074**
Nickel	150	2,200	2.6	8.4	NA	**3.97**	NA	**6.85**	NA	**3.47**
Potassium	NLE	NLE	NLE	15,400	NA	**5,710**	NA	**8,710**	NA	**479**
Selenium	39	580	0.052	1.9	NA	**1.29**	NA	**0.938**	NA	< 0.61
Silver	39	580	0.08	1.1	NA	< 0.683	NA	< 0.714	NA	< 0.61
Sodium	NLE	NLE	NLE	51.6	NA	**89.7**	NA	**160**	NA	**84**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.683	NA	< 0.714	NA	< 0.61
Vanadium	39	580	8.6	94.1	NA	**32**	NA	**46.8**	NA	**11**
Zinc	2,300	35,000	37	81.4	NA	**55.6**	NA	**85**	NA	**30.2**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-62	FTMM02-B-63		FTMM02-B-64		FTMM02-B-65
Sample ID					FTMM02-SS-B-62-2-2	FTMM02-SS-B-63-0-1.0	FTMM02-SS-B-63-2-2	FTMM02-SS-B-64-0-1.0	FTMM02-SS-B-64-2-2	FTMM02-SS-B-65-0-1.0
Sample Date					3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 690	NA	< 600	NA	< 1100	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 340	NA	< 300	NA	< 550	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 690	NA	< 600	NA	< 1100	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	**1,300**	NA	< 600	NA	**1,900**	NA
Toluene	490,000	4,700,000	76	-	< 340	NA	< 300	NA	< 550	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	NA	< 1600	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	NA	< 1600	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1600	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	NA	< 1600	NA	**240 J**
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	NA	< 1600	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	**160 J**	NA	< 1600	NA	**750 J**
Benzo(a)pyrene	15	290	4	-	NA	**140 J**	NA	< 1600	NA	**600 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	**140 J**	NA	< 1600	NA	**580 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1600	NA	**240 J**
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**150 J**	NA	< 1600	NA	**530 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	**180 J**	NA	**200 J**	NA	**220 J**
Chrysene	15,000	290,000	1,200	-	NA	**280 J**	NA	< 1600	NA	**1,200**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	NA	< 1600	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	NA	< 1600	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	NA	< 1600	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**770 JB**	NA	**1,500 JB**	NA	**130 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**250 J**	NA	< 1600	NA	**1,300**
Fluorene	230,000	3,000,000	540	-	NA	< 1200	NA	< 1600	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1200	NA	< 1600	NA	**230 J**
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	NA	< 1600	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	**170 J**	NA	< 1600	NA	**820 J**
Pyrene	170,000	2,300,000	1,300	-	NA	**260 J**	NA	< 1600	NA	**1,300**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**32,770**	NA	**16,400**	NA	**1,000**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-62	FTMM02-B-63		FTMM02-B-64		FTMM02-B-65
Sample ID					FTMM02-SS-B-62-2-2	FTMM02-SS-B-63-0-1.0	FTMM02-SS-B-63-2-2	FTMM02-SS-B-64-0-1.0	FTMM02-SS-B-64-2-2	FTMM02-SS-B-65-0-1.0
Sample Date					3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999	3/23/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.03**	NA	< 0.0187	NA	**0.131**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.025**	NA	**0.015**	NA	**0.019**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0263	NA	< 0.0344	NA	< 0.0245
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0119	NA	< 0.0156	NA	< 0.0112
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0119	NA	< 0.0156	NA	**0.012**
Endrin	1.8	25	0.0092	-	NA	< 0.0119	NA	< 0.0156	NA	< 0.0112
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0096	NA	< 0.0125	NA	< 0.0089
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0119	NA	< 0.0156	NA	< 0.0112
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3821	NA	< 0.4997	NA	< 0.3569
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1528	NA	< 0.1999	NA	< 0.1427
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0955	NA	< 0.1249	NA	< 0.0892
Aroclor-1260	0.24	1	0.027	-	NA	< 0.086	NA	< 0.1124	NA	< 0.0803
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**5,320**	NA	**32,000**	NA	**4,540**
Antimony	3.1	47	0.035	ND	NA	**0.516**	NA	< 0.642	NA	**0.538**
Arsenic	0.67	3	0.0015	22.9	NA	**3.72**	NA	**26.8**	NA	**2.58**
Barium	1,500	22,000	16	32.3	NA	**13.3**	NA	**220**	NA	**159**
Beryllium	16	230	1.9	2	NA	**0.304**	NA	**10.6**	NA	**0.662**
Cadmium	7	98	0.069	ND	NA	**0.27**	NA	**1.36**	NA	**0.578**
Calcium	NLE	NLE	NLE	921	NA	**483**	NA	**325**	NA	**2,170**
Chromium	12,000	180,000	4,000,000	269	NA	**22.2**	NA	**271**	NA	**11.9**
Cobalt	2.3	35	0.027	2.5	NA	**1.11**	NA	**13.1**	NA	**7.29**
Copper	310	4,700	2.8	8	NA	**5.18**	NA	**134**	NA	**48**
Iron	5,500	82,000	35	55,800	NA	**7,850**	NA	**89,600**	NA	**7,670**
Lead	400	800	NLE	19.5	NA	**7.45**	NA	**119**	NA	**6.85**
Magnesium	NLE	NLE	NLE	7,230	NA	**506**	NA	**4,960**	NA	**544**
Manganese	180	2,600	2.8	90.7	NA	**15.5**	NA	**42.5**	NA	**29.4**
Mercury	2.3	35	0.0033	ND	NA	**0.08**	NA	**16.7**	NA	**0.173**
Nickel	150	2,200	2.6	8.4	NA	**5.93**	NA	**70.7**	NA	**19.6**
Potassium	NLE	NLE	NLE	15,400	NA	**903**	NA	**8,570**	NA	**274**
Selenium	39	580	0.052	1.9	NA	< 0.747	NA	**2.01**	NA	**1.06**
Silver	39	580	0.08	1.1	NA	< 0.747	NA	< 0.963	NA	< 0.776
Sodium	NLE	NLE	NLE	51.6	NA	**113**	NA	**291**	NA	**358**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.747	NA	< 0.963	NA	< 0.776
Vanadium	39	580	8.6	94.1	NA	**16.3**	NA	**189**	NA	**17.3**
Zinc	2,300	35,000	37	81.4	NA	**25.6**	NA	**283**	NA	**61.8**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [1]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-65	FTMM02-B-66		FTMM02-B-67		FTMM02-B-68
Sample ID					FTMM02-SS-B-65-2-2	FTMM02-SS-B-66-0-1.0	FTMM02-SS-B-66-2-2	FTMM02-SS-B-67-0-1.0	FTMM02-SS-B-67-2-2	FTMM02-SS-B-68-0-1.0
Sample Date					3/23/1999	3/30/1999	3/30/1999	3/30/1999	3/30/1999	3/30/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 560	NA	< 560	NA	< 540	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 280	NA	< 280	NA	**690**	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 560	NA	< 560	NA	< 540	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	**1,300**	NA	< 560	NA	< 540	NA
Toluene	490,000	4,700,000	76	-	< 280	NA	< 280	NA	< 270	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1100	NA	< 1100	NA	< 1200
Acenaphthene	350,000	4,500,000	550	-	NA	< 1100	NA	< 1100	NA	< 1200
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1100	NA	< 1100	NA	< 1200
Azobenzene	5,600	26,000	0.92	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(a)anthracene	150	2,900	12	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(a)pyrene	15	290	4	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1100	NA	< 1100	NA	< 1200
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1100	NA	**140 JB**	NA	**160 JB**
Chrysene	15,000	290,000	1,200	-	NA	**160 J**	NA	**140 J**	NA	< 1200
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1100	NA	< 1100	NA	< 1200
Dibenzofuran	7,200	100,000	15	-	NA	< 1100	NA	< 1100	NA	< 1200
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1100	NA	< 1100	NA	< 1200
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**470 JB**	NA	**210 JB**	NA	**680 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1100	NA	**140 J**	NA	< 1200
Fluorene	230,000	3,000,000	540	-	NA	< 1100	NA	< 1100	NA	< 1200
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1100	NA	< 1100	NA	< 1200
Naphthalene	3,800	17,000	0.54	-	NA	< 1100	NA	< 1100	NA	< 1200
Phenanthrene	NLE	NLE	NLE	-	NA	< 1100	NA	< 1100	NA	< 1200
Pyrene	170,000	2,300,000	1,300	-	NA	**130 J**	NA	**130 J**	NA	< 1200
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**15,700**	NA	**9,900**	NA	**21,700**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-65	FTMM02-B-66		FTMM02-B-67		FTMM02-B-68
Sample ID					FTMM02-SS-B-65-2-2	FTMM02-SS-B-66-0-1.0	FTMM02-SS-B-66-2-2	FTMM02-SS-B-67-0-1.0	FTMM02-SS-B-67-2-2	FTMM02-SS-B-68-0-1.0
Sample Date					3/23/1999	3/30/1999	3/30/1999	3/30/1999	3/30/1999	3/30/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.025**	NA	< 0.0127	NA	< 0.0142
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.041**	NA	**0.016**	NA	**0.012**
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.051**	NA	< 0.0233	NA	< 0.026
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0108	NA	< 0.0106	NA	**0.021**
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0108	NA	< 0.0106	NA	< 0.0118
Endrin	1.8	25	0.0092	-	NA	< 0.0108	NA	< 0.0106	NA	< 0.0118
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0086	NA	< 0.0085	NA	< 0.0095
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0108	NA	< 0.0106	NA	**0.022**
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3446	NA	< 0.3391	NA	< 0.3784
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1378	NA	< 0.1356	NA	< 0.1514
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0861	NA	< 0.0848	NA	< 0.0946
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0775	NA	< 0.0763	NA	< 0.0851
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**8,390**	NA	**8,220**	NA	**8,820**
Antimony	3.1	47	0.035	ND	NA	**0.788**	NA	**0.49**	NA	< 0.499
Arsenic	0.67	3	0.0015	22.9	NA	**2.16**	NA	**9.76**	NA	**8.46**
Barium	1,500	22,000	16	32.3	NA	**17.1**	NA	**48.6**	NA	**56.2**
Beryllium	16	230	1.9	2	NA	**0.246**	NA	**1.05**	NA	**1.3**
Cadmium	7	98	0.069	ND	NA	**0.157**	NA	< 0.112	NA	< 0.125
Calcium	NLE	NLE	NLE	921	NA	**267**	NA	**1,250**	NA	**864**
Chromium	12,000	180,000	4,000,000	269	NA	**21.5**	NA	**99.4**	NA	**134**
Cobalt	2.3	35	0.027	2.5	NA	**0.988**	NA	**1.21**	NA	**1.39**
Copper	310	4,700	2.8	8	NA	**13.4**	NA	**10.3**	NA	**8.25**
Iron	5,500	82,000	35	55,800	NA	**6,840**	NA	**25,600**	NA	**28,500**
Lead	400	800	NLE	19.5	NA	**6.86**	NA	**25**	NA	**19.1**
Magnesium	NLE	NLE	NLE	7,230	NA	**507**	NA	**2,720**	NA	**3,480**
Manganese	180	2,600	2.8	90.7	NA	**19**	NA	**18.8**	NA	**21.9**
Mercury	2.3	35	0.0033	ND	NA	**0.078**	NA	**0.117**	NA	**0.062**
Nickel	150	2,200	2.6	8.4	NA	**4.44**	NA	**5.9**	NA	**6.21**
Potassium	NLE	NLE	NLE	15,400	NA	**1,080**	NA	**6,160**	NA	**7,660**
Selenium	39	580	0.052	1.9	NA	< 0.677	NA	**1.57**	NA	**1.56**
Silver	39	580	0.08	1.1	NA	< 0.677	NA	< 0.675	NA	< 0.748
Sodium	NLE	NLE	NLE	51.6	NA	**133**	NA	**148**	NA	**117**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.677	NA	< 0.675	NA	< 0.748
Vanadium	39	580	8.6	94.1	NA	**17.1**	NA	**39.6**	NA	**56**
Zinc	2,300	35,000	37	81.4	NA	**30.4**	NA	**53.3**	NA	**46.4**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [1]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-68	FTMM02-B-69		FTMM02-B-70		FTMM02-B-71
Sample ID					FTMM02-SS-B-68-2-2	FTMM02-SS-B-69-0-1.0	FTMM02-SS-B-69-2-2	FTMM02-SS-B-70-0-1.0	FTMM02-SS-B-70-2-2	FTMM02-SS-B-71-0-1.0
Sample Date					3/30/1999	3/30/1999	3/30/1999	3/30/1999	3/30/1999	4/6/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 590	NA	< 610	NA	< 660	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 290	NA	< 310	NA	< 330	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 590	NA	< 610	NA	< 660	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	**420 J**	NA	< 610	NA	< 660	NA
Toluene	490,000	4,700,000	76	-	< 290	NA	< 310	NA	< 330	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	NA	< 1400	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	NA	< 1400	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1400	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	NA	< 1400	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	NA	< 1400	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	< 1200	NA	< 1400	NA	< 1100
Benzo(a)pyrene	15	290	4	-	NA	< 1200	NA	< 1400	NA	< 1100
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1200	NA	**190 J**	NA	< 1100
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1400	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1200	NA	**150 J**	NA	< 1100
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1200	NA	**330 JB**	NA	< 1100
Chrysene	15,000	290,000	1,200	-	NA	**190 J**	NA	**340 J**	NA	**150 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	NA	< 1400	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	NA	< 1400	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	NA	< 1400	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**130 JB**	NA	**1,500 B**	NA	**2,600 B**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**160 J**	NA	**220 J**	NA	< 1100
Fluorene	230,000	3,000,000	540	-	NA	< 1200	NA	< 1400	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1200	NA	< 1400	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	NA	< 1400	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	**170 J**	NA	< 1400	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	**190 J**	NA	**230 J**	NA	**140 J**
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**9,000**	NA	**30,800**	NA	**22,370**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-68	FTMM02-B-69		FTMM02-B-70		FTMM02-B-71
Sample ID					FTMM02-SS-B-68-2-2	FTMM02-SS-B-69-0-1.0	FTMM02-SS-B-69-2-2	FTMM02-SS-B-70-0-1.0	FTMM02-SS-B-70-2-2	FTMM02-SS-B-71-0-1.0
Sample Date					3/30/1999	3/30/1999	3/30/1999	3/30/1999	3/30/1999	4/6/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.062**	NA	**0.14**	NA	**0.059**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.023**	NA	**0.056**	NA	**0.028**
4,4'-DDT	1.9	8.6	0.077	-	NA	**0.044**	NA	< 0.0263	NA	< 0.0253
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	< 0.0119	NA	< 0.0115
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0111	NA	< 0.0119	NA	< 0.0115
Endrin	1.8	25	0.0092	-	NA	< 0.0111	NA	< 0.0119	NA	< 0.0115
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0089	NA	< 0.0096	NA	< 0.0092
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0111	NA	< 0.0119	NA	< 0.0115
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3568	NA	< 0.3823	NA	< 0.3678
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1427	NA	< 0.1529	NA	< 0.1471
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0892	NA	< 0.0956	NA	< 0.0919
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0803	NA	< 0.086	NA	< 0.0828
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**10,300**	NA	**15,300**	NA	**8,120**
Antimony	3.1	47	0.035	ND	NA	**0.432**	NA	**0.913**	NA	< 0.453
Arsenic	0.67	3	0.0015	22.9	NA	**9.48**	NA	**9.34**	NA	**8.68**
Barium	1,500	22,000	16	32.3	NA	**53.2**	NA	**97.1**	NA	**49.9**
Beryllium	16	230	1.9	2	NA	**1.08**	NA	**2.73**	NA	**1.03**
Cadmium	7	98	0.069	ND	NA	< 0.107	NA	< 0.139	NA	< 0.113
Calcium	NLE	NLE	NLE	921	NA	**819**	NA	**660**	NA	**1,050**
Chromium	12,000	180,000	4,000,000	269	NA	**102**	NA	**81.8**	NA	**104**
Cobalt	2.3	35	0.027	2.5	NA	**2**	NA	**8.05**	NA	**1.12**
Copper	310	4,700	2.8	8	NA	**16.8**	NA	**34**	NA	**3.97**
Iron	5,500	82,000	35	55,800	NA	**26,000**	NA	**29,400**	NA	**25,200**
Lead	400	800	NLE	19.5	NA	**24.4**	NA	**46.8**	NA	**17.9**
Magnesium	NLE	NLE	NLE	7,230	NA	**2,830**	NA	**2,640**	NA	**3,110**
Manganese	180	2,600	2.8	90.7	NA	**28.9**	NA	**42.5**	NA	**18.7**
Mercury	2.3	35	0.0033	ND	NA	**0.13**	NA	**0.161**	NA	**0.066**
Nickel	150	2,200	2.6	8.4	NA	**7.69**	NA	**31.6**	NA	**4.33**
Potassium	NLE	NLE	NLE	15,400	NA	**5,960**	NA	**5,820**	NA	**8,650**
Selenium	39	580	0.052	1.9	NA	**1.3**	NA	**1.78**	NA	**1.08**
Silver	39	580	0.08	1.1	NA	< 0.644	NA	< 0.835	NA	< 0.679
Sodium	NLE	NLE	NLE	51.6	NA	**119**	NA	**240**	NA	**290**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.644	NA	< 0.835	NA	< 0.679
Vanadium	39	580	8.6	94.1	NA	**49.3**	NA	**52.2**	NA	**37.4**
Zinc	2,300	35,000	37	81.4	NA	**52.5**	NA	**108**	NA	**41.6**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-71	FTMM02-B-72		FTMM02-B-73		FTMM02-B-74
Sample ID					FTMM02-SS-B-71-2-2	FTMM02-SS-B-72-0-1.0	FTMM02-SS-B-72-2-2	FTMM02-SS-B-73-0-1.0	FTMM02-SS-B-73-2-2	FTMM02-SS-B-74-0-1.0
Sample Date					4/6/1999	4/6/1999	4/6/1999	4/6/1999	4/6/1999	4/9/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 570	NA	< 610	NA	< 650	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 280	NA	< 310	NA	< 320	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 570	NA	< 610	NA	< 650	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 570	NA	< 610	NA	< 650	NA
Toluene	490,000	4,700,000	76	-	< 280	NA	< 310	NA	< 320	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	**2,000**	NA	ND	NA	ND	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1200	NA	< 1200	NA	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1200	NA	< 1200	NA	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1200	NA	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1200	NA	< 1200	NA	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1200	NA	< 1200	NA	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	< 1200	NA	**120 J**	NA	< 1100
Benzo(a)pyrene	15	290	4	-	NA	< 1200	NA	**130 J**	NA	< 1100
Benzo(b)fluoranthene	150	2,900	41	-	NA	< 1200	NA	**130 J**	NA	< 1100
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1200	NA	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	< 1200	NA	**120 J**	NA	< 1100
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1200	NA	**180 J**	NA	< 1100
Chrysene	15,000	290,000	1,200	-	NA	< 1200	NA	**250 J**	NA	< 1100
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1200	NA	< 1200	NA	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1200	NA	< 1200	NA	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1200	NA	< 1200	NA	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**120 JB**	NA	**380 JB**	NA	**300 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	< 1200	NA	**220 J**	NA	< 1100
Fluorene	230,000	3,000,000	540	-	NA	< 1200	NA	< 1200	NA	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	< 1200	NA	< 1200	NA	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1200	NA	< 1200	NA	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	< 1200	NA	< 1200	NA	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	< 1200	NA	**230 J**	NA	< 1100
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**21,990**	NA	**21,860**	NA	**24,030**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-71	FTMM02-B-72		FTMM02-B-73		FTMM02-B-74
Sample ID					FTMM02-SS-B-71-2-2	FTMM02-SS-B-72-0-1.0	FTMM02-SS-B-72-2-2	FTMM02-SS-B-73-0-1.0	FTMM02-SS-B-73-2-2	FTMM02-SS-B-74-0-1.0
Sample Date					4/6/1999	4/6/1999	4/6/1999	4/6/1999	4/6/1999	4/9/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	**0.295**	NA	**0.081**	NA	**0.168**
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.072**	NA	**0.049**	NA	**0.038**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0253	NA	**0.032**	NA	**0.057**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0115	NA	< 0.0119	NA	**0.022**
Dieldrin	0.033	0.14	0.000069	-	NA	**0.024**	NA	< 0.0119	NA	< 0.0112
Endrin	1.8	25	0.0092	-	NA	< 0.0115	NA	< 0.0119	NA	< 0.0112
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0092	NA	< 0.0095	NA	< 0.009
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0115	NA	< 0.0119	NA	**0.019**
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3677	NA	< 0.3803	NA	< 0.3599
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1471	NA	< 0.1521	NA	< 0.144
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0919	NA	< 0.0951	NA	< 0.09
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0827	NA	< 0.0856	NA	< 0.081
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	**2,400**	NA	**7,890**	NA	**9,570**
Antimony	3.1	47	0.035	ND	NA	< 0.466	NA	**0.856**	NA	< 0.465
Arsenic	0.67	3	0.0015	22.9	NA	**2.15**	NA	**81.3**	NA	**9.55**
Barium	1,500	22,000	16	32.3	NA	**22.8**	NA	**76.6**	NA	**23.8**
Beryllium	16	230	1.9	2	NA	**0.409**	NA	**1.06**	NA	**0.896**
Cadmium	7	98	0.069	ND	NA	**1.7**	NA	< 0.113	NA	< 0.116
Calcium	NLE	NLE	NLE	921	NA	**482**	NA	**1,340**	NA	**1,810**
Chromium	12,000	180,000	4,000,000	269	NA	**5.69**	NA	**115**	NA	**101**
Cobalt	2.3	35	0.027	2.5	NA	**3.32**	NA	**0.861**	NA	**1.53**
Copper	310	4,700	2.8	8	NA	**18.9**	NA	**3.19**	NA	**16.1**
Iron	5,500	82,000	35	55,800	NA	**3,110**	NA	**36,400**	NA	**25,700**
Lead	400	800	NLE	19.5	NA	**3.73**	NA	**15.1**	NA	**32.3**
Magnesium	NLE	NLE	NLE	7,230	NA	**341**	NA	**3,730**	NA	**2,760**
Manganese	180	2,600	2.8	90.7	NA	**15.5**	NA	**18**	NA	**87.8**
Mercury	2.3	35	0.0033	ND	NA	**0.092**	NA	**0.051**	NA	**0.103**
Nickel	150	2,200	2.6	8.4	NA	**12.5**	NA	**3.86**	NA	**6.18**
Potassium	NLE	NLE	NLE	15,400	NA	**246**	NA	**11,700**	NA	**6,440**
Selenium	39	580	0.052	1.9	NA	< 0.699	NA	**1.45**	NA	**0.759**
Silver	39	580	0.08	1.1	NA	< 0.699	NA	< 0.679	NA	< 0.698
Sodium	NLE	NLE	NLE	51.6	NA	**142**	NA	**301**	NA	**188**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.699	NA	< 0.679	NA	< 0.698
Vanadium	39	580	8.6	94.1	NA	**12.8**	NA	**33**	NA	**61.8**
Zinc	2,300	35,000	37	81.4	NA	**47**	NA	**47.9**	NA	**63.7**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-74	FTMM02-B-75		FTMM02-B-76	
Sample ID					FTMM02-SS-B-74-2-2	FTMM02-SS-B-75-0-1.0	FTMM02-SS-B-75-2-2	FTMM02-SS-B-76-0-1.0	FTMM02-SS-B-76-0-1.0-Dup
Sample Date					4/9/1999	4/9/1999	4/9/1999	4/9/1999	4/9/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	< 560	NA	< 690	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 280	NA	< 340	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 560	NA	< 690	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 560	NA	< 690	NA	NA
Toluene	490,000	4,700,000	76	-	< 280	NA	< 340	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	ND	NA	ND	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	< 1000	NA	< 1100	< 1100
Acenaphthene	350,000	4,500,000	550	-	NA	< 1000	NA	< 1100	< 1100
Acenaphthylene	NLE	NLE	NLE	-	NA	**300 J**	NA	< 1100	< 1100
Anthracene	1,700,000	23,000,000	5,800	-	NA	< 1000	NA	< 1100	< 1100
Azobenzene	5,600	26,000	0.92	-	NA	< 1000	NA	< 1100	< 1100
Benzo(a)anthracene	150	2,900	12	-	NA	**190 J**	NA	**170 J**	**140 J**
Benzo(a)pyrene	15	290	4	-	NA	**240 J**	NA	**170 J**	**140 J**
Benzo(b)fluoranthene	150	2,900	41	-	NA	**190 J**	NA	**180 J**	**150 J**
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	**250 J**	NA	< 1100	< 1100
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	**190 J**	NA	**140 J**	**130 J**
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	< 1000	NA	< 1100	< 1100
Chrysene	15,000	290,000	1,200	-	NA	**450 J**	NA	**300 J**	**260 J**
Dibenz(a,h)anthracene	15	290	13	-	NA	< 1000	NA	< 1100	< 1100
Dibenzofuran	7,200	100,000	15	-	NA	< 1000	NA	< 1100	< 1100
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	< 1000	NA	< 1100	< 1100
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	**600 JB**	NA	**790 JB**	**300 JB**
Fluoranthene	230,000	3,000,000	8,900	-	NA	**210 J**	NA	**400 J**	**260 J**
Fluorene	230,000	3,000,000	540	-	NA	< 1000	NA	< 1100	< 1100
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	**200 J**	NA	< 1100	< 1100
Naphthalene	3,800	17,000	0.54	-	NA	< 1000	NA	< 1100	< 1100
Phenanthrene	NLE	NLE	NLE	-	NA	< 1000	NA	**300 J**	< 1100
Pyrene	170,000	2,300,000	1,300	-	NA	**340 J**	NA	**320 J**	**230 J**
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	**20,120**	NA	**33,920**	**33,300**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-74	FTMM02-B-75		FTMM02-B-76	
Sample ID					FTMM02-SS-B-74-2-2	FTMM02-SS-B-75-0-1.0	FTMM02-SS-B-75-2-2	FTMM02-SS-B-76-0-1.0	FTMM02-SS-B-76-0-1.0-Dup
Sample Date					4/9/1999	4/9/1999	4/9/1999	4/9/1999	4/9/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	< 0.013	NA	**0.021**	< 0.0137
4,4'-DDE	1.6	6.8	0.054	-	NA	**0.013**	NA	**0.03**	**0.023**
4,4'-DDT	1.9	8.6	0.077	-	NA	< 0.0239	NA	**0.073**	**0.032**
Alpha-Chlordane	1.8	8	0.015	-	NA	< 0.0108	NA	**0.013**	< 0.0114
Dieldrin	0.033	0.14	0.000069	-	NA	< 0.0108	NA	< 0.0114	< 0.0114
Endrin	1.8	25	0.0092	-	NA	< 0.0108	NA	< 0.0114	< 0.0114
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	< 0.0087	NA	< 0.0091	< 0.0091
Gamma-Chlordane	1.8	8	0.015	-	NA	< 0.0108	NA	< 0.0114	< 0.0114
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	< 0.3472	NA	< 0.3644	< 0.3644
Aroclor-1248	0.24	1	0.006	-	NA	< 0.1389	NA	< 0.1458	< 0.1458
Aroclor-1254	0.11	1	0.01	-	NA	< 0.0868	NA	< 0.0911	< 0.0911
Aroclor-1260	0.24	1	0.027	-	NA	< 0.0781	NA	< 0.082	< 0.082
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	**3,670**	NA	**12,400**	**11,300**
Antimony	3.1	47	0.035	ND	NA	**2.31**	NA	< 0.43	< 0.392
Arsenic	0.67	3	0.0015	22.9	NA	**15.1**	NA	**9.54**	**10.4**
Barium	1,500	22,000	16	32.3	NA	**13.2**	NA	**40.5**	**35.3**
Beryllium	16	230	1.9	2	NA	**0.332**	NA	**0.928**	**0.975**
Cadmium	7	98	0.069	ND	NA	< 0.106	NA	< 0.108	< 0.098
Calcium	NLE	NLE	NLE	921	NA	**493**	NA	**1,350**	**1,250**
Chromium	12,000	180,000	4,000,000	269	NA	**32.5**	NA	**77.8**	**86.3**
Cobalt	2.3	35	0.027	2.5	NA	**3.58**	NA	**3.38**	**2.82**
Copper	310	4,700	2.8	8	NA	**55.4**	NA	**14.1**	**12.1**
Iron	5,500	82,000	35	55,800	NA	**45,400**	NA	**32,200**	**36,100**
Lead	400	800	NLE	19.5	NA	**24.2**	NA	**21.2**	**22.1**
Magnesium	NLE	NLE	NLE	7,230	NA	**443**	NA	**2,190**	**2,390**
Manganese	180	2,600	2.8	90.7	NA	**184**	NA	**98**	**94.4**
Mercury	2.3	35	0.0033	ND	NA	**0.058**	NA	**0.083**	**0.075**
Nickel	150	2,200	2.6	8.4	NA	**6.72**	NA	**10**	**9.28**
Potassium	NLE	NLE	NLE	15,400	NA	**863**	NA	**4,600**	**5,080**
Selenium	39	580	0.052	1.9	NA	< 0.635	NA	< 0.645	< 0.589
Silver	39	580	0.08	1.1	NA	< 0.635	NA	< 0.645	< 0.589
Sodium	NLE	NLE	NLE	51.6	NA	**116**	NA	**494**	**133**
Thallium	0.078	1.2	0.0014	ND	NA	< 0.635	NA	< 0.645	< 0.589
Vanadium	39	580	8.6	94.1	NA	**31.7**	NA	**74.6**	**77.3**
Zinc	2,300	35,000	37	81.4	NA	**43.6**	NA	**80.5**	**90.6**

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-B-76		FTMM02-B-77		FTMM02-B-78	
Sample ID					FTMM02-SS-B-76-2-2	FTMM02-SS-B-76-2-2-Dup	FTMM02-SS-B-77-0-1.0	FTMM02-SS-B-77-2-2	FTMM02-SS-B-78-0-1.0	FTMM02-SS-B-78-2-2
Sample Date					4/9/1999	4/9/1999	4/13/1999	4/13/1999	4/13/1999	4/13/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	< 590	< 540	NA	< 710	NA	< 590
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	< 290	< 270	NA	< 350	NA	< 290
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	< 590	< 540	NA	< 710	NA	< 590
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	< 590	< 540	NA	< 710	NA	< 590
Toluene	490,000	4,700,000	76	-	< 290	< 270	NA	< 350	NA	< 290
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	ND	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	< 1200	NA	< 1300	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	**270 J**	NA	< 1300	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	< 1200	NA	< 1300	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	**550 J**	NA	**150 J**	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	< 1200	NA	< 1300	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	**1,400**	NA	**510 J**	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	**1,400**	NA	**730 J**	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	**1,100 J**	NA	**680 J**	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	**830 J**	NA	**380 J**	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	**1,200 J**	NA	**740 J**	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	< 1200	NA	**180 J**	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	**2,400**	NA	**840 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	**310 J**	NA	< 1300	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	< 1200	NA	< 1300	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	< 1200	NA	< 1300	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	**2,300 B**	NA	**620 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	**3,400**	NA	**640 J**	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	< 1200	NA	< 1300	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	**780 J**	NA	**340 J**	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	< 1200	NA	< 1300	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	**2,000**	NA	**270 J**	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	**2,700**	NA	**760 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	**43,570**	NA	**25,800**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-76		FTMM02-B-77		FTMM02-B-78	
Sample ID					FTMM02-SS-B-76-2-2	FTMM02-SS-B-76-2-2-Dup	FTMM02-SS-B-77-0-1.0	FTMM02-SS-B-77-2-2	FTMM02-SS-B-78-0-1.0	FTMM02-SS-B-78-2-2
Sample Date					4/9/1999	4/9/1999	4/13/1999	4/13/1999	4/13/1999	4/13/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	**0.056**	NA	**0.024**	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	**0.039**	NA	**0.028**	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	**0.028**	NA	< 0.0286	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	< 0.0123	NA	**0.017**	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	< 0.0123	NA	< 0.013	NA
Endrin	1.8	25	0.0092	-	NA	NA	< 0.0123	NA	< 0.013	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	< 0.0098	NA	< 0.0104	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	< 0.0123	NA	**0.018**	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	< 0.0981	NA	< 0.1038	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	< 0.0392	NA	< 0.0415	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	< 0.0245	NA	< 0.026	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	< 0.0221	NA	< 0.0234	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	**9,740**	NA	**6,670**	NA
Antimony	3.1	47	0.035	ND	NA	NA	< 0.526	NA	**0.753**	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	**11.9**	NA	**6.13**	NA
Barium	1,500	22,000	16	32.3	NA	NA	**60.4**	NA	**45.2**	NA
Beryllium	16	230	1.9	2	NA	NA	**1.14**	NA	**0.499**	NA
Cadmium	7	98	0.069	ND	NA	NA	**2.89**	NA	**0.742**	NA
Calcium	NLE	NLE	NLE	921	NA	NA	**4,930**	NA	**10,100**	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	**95.1**	NA	**55.6**	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	**2.59**	NA	**2.11**	NA
Copper	310	4,700	2.8	8	NA	NA	**27**	NA	**26.7**	NA
Iron	5,500	82,000	35	55,800	NA	NA	**26,800**	NA	**18,000**	NA
Lead	400	800	NLE	19.5	NA	NA	**54**	NA	**87.2**	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	**3,780**	NA	**2,390**	NA
Manganese	180	2,600	2.8	90.7	NA	NA	**685**	NA	**311**	NA
Mercury	2.3	35	0.0033	ND	NA	NA	**0.623**	NA	**0.31**	NA
Nickel	150	2,200	2.6	8.4	NA	NA	**11.9**	NA	**8.11**	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	**7,500**	NA	**3,540**	NA
Selenium	39	580	0.052	1.9	NA	NA	**1.23**	NA	< 0.783	NA
Silver	39	580	0.08	1.1	NA	NA	< 0.789	NA	< 0.783	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	**151**	NA	**115**	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	< 0.789	NA	< 0.783	NA
Vanadium	39	580	8.6	94.1	NA	NA	**42.7**	NA	**30.5**	NA
Zinc	2,300	35,000	37	81.4	NA	NA	**422**	NA	**145**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-79		FTMM02-B-80		FTMM02-B-81	
Sample ID					FTMM02-SS-B-79-0-1.0	FTMM02-SS-B-79-2-2	FTMM02-SS-B-80-0-1.0	FTMM02-SS-B-80-2-2	FTMM02-SS-B-81-0-1.0	FTMM02-SS-B-81-2-2
Sample Date					4/13/1999	4/13/1999	4/13/1999	4/13/1999	4/14/1999	4/14/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 630	NA	< 580	NA	< 540
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 310	NA	< 290	NA	< 270
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 630	NA	< 580	NA	< 540
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 630	NA	**1,100**	NA	< 540
Toluene	490,000	4,700,000	76	-	NA	< 310	NA	< 290	NA	< 270
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1400	NA	< 1500	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1400	NA	< 1500	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1400	NA	< 1500	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1400	NA	< 1500	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1400	NA	< 1500	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	< 1400	NA	< 1500	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	< 1400	NA	< 1500	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	< 1400	NA	< 1500	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1400	NA	< 1500	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1400	NA	< 1500	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1400	NA	< 1500	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	**180 J**	NA	< 1500	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1400	NA	< 1500	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1400	NA	< 1500	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1400	NA	< 1500	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**180 JB**	NA	**230 JB**	NA	**2,000 B**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**150 J**	NA	< 1500	NA	< 1100	NA
Fluorene	230,000	3,000,000	540	-	< 1400	NA	< 1500	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1400	NA	< 1500	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1400	NA	< 1500	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	< 1400	NA	< 1500	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	**180 J**	NA	< 1500	NA	< 1100	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**16,510**	NA	**72,100**	NA	**25,700**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-79		FTMM02-B-80		FTMM02-B-81	
Sample ID					FTMM02-SS-B-79-0-1.0	FTMM02-SS-B-79-2-2	FTMM02-SS-B-80-0-1.0	FTMM02-SS-B-80-2-2	FTMM02-SS-B-81-0-1.0	FTMM02-SS-B-81-2-2
Sample Date					4/13/1999	4/13/1999	4/13/1999	4/13/1999	4/14/1999	4/14/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.023**	NA	**0.043**	NA	**0.065**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.028**	NA	**0.047**	NA	**0.087**	NA
4,4'-DDT	1.9	8.6	0.077	-	< 0.0309	NA	**0.035**	NA	< 0.025	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0141	NA	< 0.0144	NA	< 0.0114	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0141	NA	< 0.0144	NA	< 0.0114	NA
Endrin	1.8	25	0.0092	-	< 0.0141	NA	< 0.0144	NA	< 0.0114	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0112	NA	< 0.0115	NA	< 0.0091	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0141	NA	< 0.0144	NA	< 0.0114	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.1124	NA	< 0.1153	NA	< 0.3633	NA
Aroclor-1248	0.24	1	0.006	-	< 0.045	NA	< 0.0461	NA	< 0.1453	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0281	NA	< 0.0288	NA	< 0.0908	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0253	NA	< 0.026	NA	< 0.0817	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**6,570**	NA	**7,540**	NA	**13,900**	NA
Antimony	3.1	47	0.035	ND	< 0.556	NA	< 0.589	NA	**0.782**	NA
Arsenic	0.67	3	0.0015	22.9	**6.87**	NA	**15.5**	NA	**18.4**	NA
Barium	1,500	22,000	16	32.3	**37.9**	NA	**34.4**	NA	**80.9**	NA
Beryllium	16	230	1.9	2	**0.574**	NA	**0.68**	NA	**1.59**	NA
Cadmium	7	98	0.069	ND	**0.408**	NA	< 0.147	NA	< 0.122	NA
Calcium	NLE	NLE	NLE	921	**6,570**	NA	**1,950**	NA	**4,200**	NA
Chromium	12,000	180,000	4,000,000	269	**53.1**	NA	**89.6**	NA	**189**	NA
Cobalt	2.3	35	0.027	2.5	**2.11**	NA	**1.01**	NA	**1.42**	NA
Copper	310	4,700	2.8	8	**99**	NA	**11.7**	NA	**9.12**	NA
Iron	5,500	82,000	35	55,800	**17,600**	NA	**24,100**	NA	**45,000**	NA
Lead	400	800	NLE	19.5	**57.7**	NA	**18.5**	NA	**38.6**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,580**	NA	**2,110**	NA	**6,090**	NA
Manganese	180	2,600	2.8	90.7	**158**	NA	**31.2**	NA	**34.1**	NA
Mercury	2.3	35	0.0033	ND	**0.376**	NA	**0.083**	NA	**0.117**	NA
Nickel	150	2,200	2.6	8.4	**6.97**	NA	**4.9**	NA	**7.61**	NA
Potassium	NLE	NLE	NLE	15,400	**4,440**	NA	**5,070**	NA	**13,100**	NA
Selenium	39	580	0.052	1.9	< 0.834	NA	**0.93**	NA	**1.97**	NA
Silver	39	580	0.08	1.1	< 0.834	NA	< 0.884	NA	< 0.733	NA
Sodium	NLE	NLE	NLE	51.6	**158**	NA	**252**	NA	**203**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.834	NA	< 0.884	NA	< 0.733	NA
Vanadium	39	580	8.6	94.1	**30**	NA	**78.9**	NA	**70.1**	NA
Zinc	2,300	35,000	37	81.4	**126**	NA	**46.1**	NA	**74.4**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-82		FTMM02-B-83		FTMM02-B-84	
Sample ID					FTMM02-SS-B-82-0-1.0	FTMM02-SS-B-82-2-2	FTMM02-SS-B-83-0-1.0	FTMM02-SS-B-83-2-2	FTMM02-SS-B-84-0-1.0	FTMM02-SS-B-84-2-2
Sample Date					4/14/1999	4/14/1999	4/14/1999	4/14/1999	4/14/1999	4/14/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 610	NA	< 620	NA	< 600
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 300	NA	< 310	NA	< 300
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 610	NA	< 620	NA	< 600
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 610	NA	< 620	NA	< 600
Toluene	490,000	4,700,000	76	-	NA	< 300	NA	< 310	NA	**360**
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1200	NA	< 1200	NA	< 1400	NA
Acenaphthene	350,000	4,500,000	550	-	< 1200	NA	< 1200	NA	< 1400	NA
Acenaphthylene	NLE	NLE	NLE	-	**1,500**	NA	< 1200	NA	< 1400	NA
Anthracene	1,700,000	23,000,000	5,800	-	**780 J**	NA	< 1200	NA	< 1400	NA
Azobenzene	5,600	26,000	0.92	-	< 1200	NA	< 1200	NA	< 1400	NA
Benzo(a)anthracene	150	2,900	12	-	**9,500**	NA	**160 J**	NA	**140 J**	NA
Benzo(a)pyrene	15	290	4	-	**10,000 D**	NA	**150 J**	NA	< 1400	NA
Benzo(b)fluoranthene	150	2,900	41	-	**13,000 D**	NA	**150 J**	NA	**150 J**	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	**2,700**	NA	< 1200	NA	< 1400	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**11,000 D**	NA	**150 J**	NA	**140 J**	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1200	NA	< 1200	NA	**180 J**	NA
Chrysene	15,000	290,000	1,200	-	**14,000 D**	NA	**260 J**	NA	**240 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	**2,000**	NA	< 1200	NA	< 1400	NA
Dibenzofuran	7,200	100,000	15	-	< 1200	NA	< 1200	NA	< 1400	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1200	NA	< 1200	NA	< 1400	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**260 JB**	NA	**170 JB**	NA	**1,200 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**5,400**	NA	**270 J**	NA	**230 J**	NA
Fluorene	230,000	3,000,000	540	-	< 1200	NA	< 1200	NA	< 1400	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	**3,300**	NA	< 1200	NA	< 1400	NA
Naphthalene	3,800	17,000	0.54	-	< 1200	NA	< 1200	NA	< 1400	NA
Phenanthrene	NLE	NLE	NLE	-	**220 J**	NA	**160 J**	NA	**100 J**	NA
Pyrene	170,000	2,300,000	1,300	-	**12,000 D**	NA	**300 J**	NA	**250 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**39,930**	NA	**22,660**	NA	**22,700**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-82		FTMM02-B-83		FTMM02-B-84	
Sample ID					FTMM02-SS-B-82-0-1.0	FTMM02-SS-B-82-2-2	FTMM02-SS-B-83-0-1.0	FTMM02-SS-B-83-2-2	FTMM02-SS-B-84-0-1.0	FTMM02-SS-B-84-2-2
Sample Date					4/14/1999	4/14/1999	4/14/1999	4/14/1999	4/14/1999	4/14/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.142**	NA	**0.018**	NA	**0.017**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.088**	NA	**0.038**	NA	**0.055**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.114**	NA	**0.027**	NA	**0.085**	NA
Alpha-Chlordane	1.8	8	0.015	-	**0.018**	NA	< 0.012	NA	**0.02**	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0117	NA	< 0.012	NA	< 0.0137	NA
Endrin	1.8	25	0.0092	-	< 0.0117	NA	< 0.012	NA	< 0.0137	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0094	NA	< 0.0096	NA	< 0.011	NA
Gamma-Chlordane	1.8	8	0.015	-	**0.016**	NA	< 0.012	NA	**0.028**	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3752	NA	< 0.3839	NA	< 0.1097	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1501	NA	< 0.1536	NA	< 0.0439	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0938	NA	< 0.096	NA	< 0.0274	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0844	NA	< 0.0864	NA	< 0.0247	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**5,470**	NA	**7,290**	NA	**5,280**	NA
Antimony	3.1	47	0.035	ND	**0.669**	NA	**1.1**	NA	**1.46**	NA
Arsenic	0.67	3	0.0015	22.9	**6.31**	NA	**14**	NA	**7.15**	NA
Barium	1,500	22,000	16	32.3	**27.2**	NA	**47.5**	NA	**48.8**	NA
Beryllium	16	230	1.9	2	**0.647**	NA	**0.915**	NA	**0.571**	NA
Cadmium	7	98	0.069	ND	**0.112**	NA	**0.22**	NA	**0.771**	NA
Calcium	NLE	NLE	NLE	921	**621**	NA	**2,240**	NA	**4,870**	NA
Chromium	12,000	180,000	4,000,000	269	**56.3**	NA	**102**	NA	**52.8**	NA
Cobalt	2.3	35	0.027	2.5	**1.1**	NA	**1.34**	NA	**3.5**	NA
Copper	310	4,700	2.8	8	**6.57**	NA	**17.6**	NA	**38.6**	NA
Iron	5,500	82,000	35	55,800	**18,200**	NA	**25,200**	NA	**17,600**	NA
Lead	400	800	NLE	19.5	**11.3**	NA	**42.8**	NA	**89.9**	NA
Magnesium	NLE	NLE	NLE	7,230	**1,650**	NA	**2,770**	NA	**1,870**	NA
Manganese	180	2,600	2.8	90.7	**19.3**	NA	**102**	NA	**198**	NA
Mercury	2.3	35	0.0033	ND	**0.119**	NA	**0.566**	NA	**0.254**	NA
Nickel	150	2,200	2.6	8.4	**4.39**	NA	**5.65**	NA	**12.9**	NA
Potassium	NLE	NLE	NLE	15,400	**3,340**	NA	**5,950**	NA	**2,760**	NA
Selenium	39	580	0.052	1.9	**0.787**	NA	**1.44**	NA	**1.37**	NA
Silver	39	580	0.08	1.1	< 0.652	NA	< 0.751	NA	< 0.863	NA
Sodium	NLE	NLE	NLE	51.6	**93.4**	NA	**116**	NA	**185**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.652	NA	< 0.751	NA	< 0.863	NA
Vanadium	39	580	8.6	94.1	**26.2**	NA	**53.7**	NA	**28.3**	NA
Zinc	2,300	35,000	37	81.4	**59.6**	NA	**82.1**	NA	**215**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-85		FTMM02-B-86		FTMM02-B-87	
Sample ID					FTMM02-SS-B-85-0-1.0	FTMM02-SS-B-85-2-2	FTMM02-SS-B-86-0-1.0	FTMM02-SS-B-86-2-2	FTMM02-SS-B-87-0-1.0	FTMM02-SS-B-87-2-2
Sample Date					4/14/1999	4/14/1999	4/14/1999	4/14/1999	4/16/1999	4/16/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 540	NA	< 550	NA	< 560
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 270	NA	< 280	NA	< 280
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 540	NA	< 550	NA	< 560
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 540	NA	< 550	NA	**1,400**
Toluene	490,000	4,700,000	76	-	NA	< 270	NA	< 280	NA	< 280
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	**3,600**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1200	NA	< 1100	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1200	NA	< 1100	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1200	NA	< 1100	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1200	NA	< 1100	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1200	NA	< 1100	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	**140 J**	NA	< 1100	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	< 1200	NA	< 1100	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	< 1200	NA	< 1100	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1200	NA	< 1100	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1200	NA	< 1100	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1200	NA	< 1100	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	**310 J**	NA	< 1100	NA	**120 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1200	NA	< 1100	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1200	NA	< 1100	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1200	NA	< 1100	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**22,000 BD**	NA	**840 JB**	NA	**220 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**250 J**	NA	< 1100	NA	< 1100	NA
Fluorene	230,000	3,000,000	540	-	< 1200	NA	< 1100	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1200	NA	< 1100	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1200	NA	< 1100	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	**390 J**	NA	< 1100	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	**380 J**	NA	< 1100	NA	**130 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**27,090**	NA	**31,930**	NA	**14,760**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-85		FTMM02-B-86		FTMM02-B-87	
Sample ID					FTMM02-SS-B-85-0-1.0	FTMM02-SS-B-85-2-2	FTMM02-SS-B-86-0-1.0	FTMM02-SS-B-86-2-2	FTMM02-SS-B-87-0-1.0	FTMM02-SS-B-87-2-2
Sample Date					4/14/1999	4/14/1999	4/14/1999	4/14/1999	4/16/1999	4/16/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.098**	NA	**0.14**	NA	**0.149**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.068**	NA	**0.098**	NA	**0.044**	NA
4,4'-DDT	1.9	8.6	0.077	-	< 0.0256	NA	< 0.0255	NA	< 0.0244	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0116	NA	< 0.0116	NA	< 0.0111	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0116	NA	< 0.0116	NA	< 0.0111	NA
Endrin	1.8	25	0.0092	-	< 0.0116	NA	< 0.0116	NA	< 0.0111	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0093	NA	< 0.0093	NA	< 0.0089	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0116	NA	< 0.0116	NA	< 0.0111	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3719	NA	< 0.3708	NA	< 0.3554	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1488	NA	< 0.1483	NA	< 0.1422	NA
Aroclor-1254	0.11	1	0.01	-	< 0.093	NA	< 0.0927	NA	< 0.0889	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0837	NA	< 0.0834	NA	< 0.08	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**6,500**	NA	**6,390**	NA	**9,620**	NA
Antimony	3.1	47	0.035	ND	**0.629**	NA	**0.775**	NA	**1**	NA
Arsenic	0.67	3	0.0015	22.9	**12.7**	NA	**12.7**	NA	**15.3**	NA
Barium	1,500	22,000	16	32.3	**88.7**	NA	**74.1**	NA	**47.3**	NA
Beryllium	16	230	1.9	2	**1.14**	NA	**1.6**	NA	**0.944**	NA
Cadmium	7	98	0.069	ND	**0.174**	NA	**2.94**	NA	< 0.116	NA
Calcium	NLE	NLE	NLE	921	**8,710**	NA	**5,160**	NA	**1,430**	NA
Chromium	12,000	180,000	4,000,000	269	**92.4**	NA	**75.5**	NA	**66.9**	NA
Cobalt	2.3	35	0.027	2.5	**1.73**	NA	**2.53**	NA	**1.31**	NA
Copper	310	4,700	2.8	8	**7.22**	NA	**7.53**	NA	**12.3**	NA
Iron	5,500	82,000	35	55,800	**25,500**	NA	**18,700**	NA	**20,900**	NA
Lead	400	800	NLE	19.5	**33.4**	NA	**21.4**	NA	**38.9**	NA
Magnesium	NLE	NLE	NLE	7,230	**2,900**	NA	**2,200**	NA	**1,860**	NA
Manganese	180	2,600	2.8	90.7	**28.7**	NA	**22.5**	NA	**28**	NA
Mercury	2.3	35	0.0033	ND	**0.097**	NA	**0.121**	NA	**0.136**	NA
Nickel	150	2,200	2.6	8.4	**6.44**	NA	**15.7**	NA	**7.53**	NA
Potassium	NLE	NLE	NLE	15,400	**6,990**	NA	**5,020**	NA	**3,800**	NA
Selenium	39	580	0.052	1.9	**2.5**	NA	**2.49**	NA	**1.77**	NA
Silver	39	580	0.08	1.1	< 0.701	NA	< 0.712	NA	< 0.696	NA
Sodium	NLE	NLE	NLE	51.6	**380**	NA	**648**	NA	**544**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.701	NA	< 0.712	NA	< 0.696	NA
Vanadium	39	580	8.6	94.1	**22.1**	NA	**20.6**	NA	**27.1**	NA
Zinc	2,300	35,000	37	81.4	**81.8**	NA	**106**	NA	**56.7**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-88		FTMM02-B-89		FTMM02-B-90	
Sample ID					FTMM02-SS-B-88-0-1.0	FTMM02-SS-B-88-2-2	FTMM02-SS-B-89-0-1.0	FTMM02-SS-B-89-2-2	FTMM02-SS-B-90-0-1.0	FTMM02-SS-B-90-2-2
Sample Date					4/16/1999	4/16/1999	4/16/1999	4/16/1999	4/16/1999	4/16/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 690	NA	< 580	NA	< 650
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 350	NA	< 290	NA	< 320
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 690	NA	< 580	NA	< 650
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	**1,600**	NA	**1,400**	NA	**1,500**
Toluene	490,000	4,700,000	76	-	NA	< 350	NA	< 290	NA	< 320
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	**2,000**	NA	**3,900**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1200	NA	< 1100	NA	< 1800	NA
Acenaphthene	350,000	4,500,000	550	-	< 1200	NA	< 1100	NA	< 1800	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1200	NA	< 1100	NA	< 1800	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1200	NA	< 1100	NA	< 1800	NA
Azobenzene	5,600	26,000	0.92	-	< 1200	NA	< 1100	NA	< 1800	NA
Benzo(a)anthracene	150	2,900	12	-	< 1200	NA	< 1100	NA	**500 J**	NA
Benzo(a)pyrene	15	290	4	-	< 1200	NA	< 1100	NA	**480 J**	NA
Benzo(b)fluoranthene	150	2,900	41	-	**130 J**	NA	< 1100	NA	**440 J**	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1200	NA	< 1100	NA	< 1800	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1200	NA	< 1100	NA	**490 J**	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1200	NA	< 1100	NA	< 1800	NA
Chrysene	15,000	290,000	1,200	-	**230 J**	NA	< 1100	NA	**820 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1200	NA	< 1100	NA	< 1800	NA
Dibenzofuran	7,200	100,000	15	-	< 1200	NA	< 1100	NA	< 1800	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1200	NA	< 1100	NA	< 1800	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**1,100 JB**	NA	**200 JB**	NA	**1,000 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**180 J**	NA	**150 J**	NA	**770 J**	NA
Fluorene	230,000	3,000,000	540	-	< 1200	NA	< 1100	NA	< 1800	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1200	NA	< 1100	NA	**290 J**	NA
Naphthalene	3,800	17,000	0.54	-	< 1200	NA	< 1100	NA	< 1800	NA
Phenanthrene	NLE	NLE	NLE	-	< 1200	NA	< 1100	NA	**440 J**	NA
Pyrene	170,000	2,300,000	1,300	-	**190 J**	NA	**200 J**	NA	**960 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**30,130**	NA	**10,480**	NA	**50,100**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-88		FTMM02-B-89		FTMM02-B-90	
Sample ID					FTMM02-SS-B-88-0-1.0	FTMM02-SS-B-88-2-2	FTMM02-SS-B-89-0-1.0	FTMM02-SS-B-89-2-2	FTMM02-SS-B-90-0-1.0	FTMM02-SS-B-90-2-2
Sample Date					4/16/1999	4/16/1999	4/16/1999	4/16/1999	4/16/1999	4/16/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.13**	NA	**0.014**	NA	< 0.0217	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.089**	NA	< 0.0089	NA	**0.055**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.171**	NA	< 0.0245	NA	**0.066**	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0118	NA	< 0.0111	NA	**0.022**	NA
Dieldrin	0.033	0.14	0.000069	-	**0.018**	NA	< 0.0111	NA	< 0.0181	NA
Endrin	1.8	25	0.0092	-	< 0.0118	NA	< 0.0111	NA	< 0.0181	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0094	NA	< 0.0089	NA	< 0.0145	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0118	NA	**0.014**	NA	< 0.0181	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3763	NA	< 0.3558	NA	< 0.1448	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1505	NA	< 0.1423	NA	< 0.0579	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0941	NA	< 0.0889	NA	< 0.0362	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0847	NA	< 0.0801	NA	< 0.0326	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**8,960**	NA	**12,700**	NA	**11,600**	NA
Antimony	3.1	47	0.035	ND	**1.02**	NA	**0.863**	NA	**1.02**	NA
Arsenic	0.67	3	0.0015	22.9	**8.91**	NA	**9.98**	NA	**7.36**	NA
Barium	1,500	22,000	16	32.3	**43.8**	NA	**49.4**	NA	**53.3**	NA
Beryllium	16	230	1.9	2	**1.23**	NA	**1.12**	NA	**0.843**	NA
Cadmium	7	98	0.069	ND	**0.286**	NA	**0.353**	NA	**1.17**	NA
Calcium	NLE	NLE	NLE	921	**1,290**	NA	**3,940**	NA	**7,830**	NA
Chromium	12,000	180,000	4,000,000	269	**105**	NA	**104**	NA	**79.1**	NA
Cobalt	2.3	35	0.027	2.5	**1.65**	NA	**1.83**	NA	**3.7**	NA
Copper	310	4,700	2.8	8	**9.7**	NA	**20.2**	NA	**25.4**	NA
Iron	5,500	82,000	35	55,800	**26,000**	NA	**30,800**	NA	**27,000**	NA
Lead	400	800	NLE	19.5	**19.6**	NA	**36.1**	NA	**76.6**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,200**	NA	**3,590**	NA	**4,180**	NA
Manganese	180	2,600	2.8	90.7	**31.3**	NA	**62.4**	NA	**131**	NA
Mercury	2.3	35	0.0033	ND	**0.034**	NA	**0.034**	NA	**0.034**	NA
Nickel	150	2,200	2.6	8.4	**7.71**	NA	**8.31**	NA	**15**	NA
Potassium	NLE	NLE	NLE	15,400	**6,130**	NA	**7,710**	NA	**5,300**	NA
Selenium	39	580	0.052	1.9	**1.62**	NA	**0.837**	NA	**1.39**	NA
Silver	39	580	0.08	1.1	< 0.736	NA	< 0.705	NA	< 1.117	NA
Sodium	NLE	NLE	NLE	51.6	**141**	NA	**770**	NA	**328**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.736	NA	< 0.705	NA	< 1.117	NA
Vanadium	39	580	8.6	94.1	**41**	NA	**52.7**	NA	**77.8**	NA
Zinc	2,300	35,000	37	81.4	**91**	NA	**99.9**	NA	**150**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-91		FTMM02-B-92		FTMM02-B-93	
Sample ID					FTMM02-SS-B-91-0-1.0	FTMM02-SS-B-91-2-2	FTMM02-SS-B-92-0-1.0	FTMM02-SS-B-92-2-2	FTMM02-SS-B-93-0-1.0	FTMM02-SS-B-93-2-2
Sample Date					4/16/1999	4/16/1999	4/21/1999	4/21/1999	4/21/1999	4/21/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 670	NA	< 640	NA	< 530
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 330	NA	< 320	NA	< 260
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 670	NA	< 640	NA	< 530
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	**1,500**	NA	< 640	NA	< 530
Toluene	490,000	4,700,000	76	-	NA	< 330	NA	< 320	NA	< 260
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**4,000**	NA	**3,200**	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1200	NA	< 1300	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1200	NA	< 1300	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1200	NA	< 1300	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1200	NA	< 1300	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1200	NA	< 1300	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	< 1200	NA	**190 J**	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	< 1200	NA	**210 J**	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	< 1200	NA	**210 J**	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1200	NA	< 1300	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	< 1200	NA	**210 J**	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	< 1200	NA	< 1300	NA	**180 JB**	NA
Chrysene	15,000	290,000	1,200	-	**150 J**	NA	**340 J**	NA	< 1100	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1200	NA	< 1300	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1200	NA	< 1300	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1200	NA	< 1300	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**560 JB**	NA	< 1300	NA	**510 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**150 J**	NA	**390 J**	NA	< 1100	NA
Fluorene	230,000	3,000,000	540	-	< 1200	NA	< 1300	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1200	NA	< 1300	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1200	NA	< 1300	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	< 1200	NA	**290 J**	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	**180 J**	NA	**430 J**	NA	< 1100	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**4,320**	NA	**13,960**	NA	ND	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-91		FTMM02-B-92		FTMM02-B-93	
Sample ID					FTMM02-SS-B-91-0-1.0	FTMM02-SS-B-91-2-2	FTMM02-SS-B-92-0-1.0	FTMM02-SS-B-92-2-2	FTMM02-SS-B-93-0-1.0	FTMM02-SS-B-93-2-2
Sample Date					4/16/1999	4/16/1999	4/21/1999	4/21/1999	4/21/1999	4/21/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	< 0.0138	NA	**0.037**	NA	**0.027**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.018**	NA	**0.055**	NA	**0.022**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.037**	NA	**0.031**	NA	< 0.0253	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0115	NA	**0.046**	NA	< 0.0115	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0115	NA	< 0.0132	NA	< 0.0115	NA
Endrin	1.8	25	0.0092	-	< 0.0115	NA	< 0.0132	NA	< 0.0115	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0092	NA	< 0.0106	NA	< 0.0092	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0115	NA	**0.041**	NA	< 0.0115	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3683	NA	< 0.1055	NA	< 0.3678	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1473	NA	< 0.0422	NA	< 0.1471	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0921	NA	< 0.0264	NA	< 0.092	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0829	NA	< 0.0237	NA	< 0.0828	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**13,100**	NA	**11,000**	NA	**6,590**	NA
Antimony	3.1	47	0.035	ND	**1.78**	NA	**1.16**	NA	**0.525**	NA
Arsenic	0.67	3	0.0015	22.9	**14.9**	NA	**10.6**	NA	**9.64**	NA
Barium	1,500	22,000	16	32.3	**34**	NA	**75.4**	NA	**44.8**	NA
Beryllium	16	230	1.9	2	**1.08**	NA	**0.983**	NA	**1.19**	NA
Cadmium	7	98	0.069	ND	< 0.111	NA	**0.287**	NA	**0.639**	NA
Calcium	NLE	NLE	NLE	921	**1,940**	NA	**5,850**	NA	**769**	NA
Chromium	12,000	180,000	4,000,000	269	**114**	NA	**99.4**	NA	**92.8**	NA
Cobalt	2.3	35	0.027	2.5	**1.84**	NA	**2.42**	NA	**1.69**	NA
Copper	310	4,700	2.8	8	**15.4**	NA	**39.6**	NA	**7.38**	NA
Iron	5,500	82,000	35	55,800	**31,200**	NA	**29,600**	NA	**21,500**	NA
Lead	400	800	NLE	19.5	**122**	NA	**74.9**	NA	**17.6**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,810**	NA	**3,830**	NA	**2,350**	NA
Manganese	180	2,600	2.8	90.7	**71.5**	NA	**123**	NA	**20.7**	NA
Mercury	2.3	35	0.0033	ND	**0.034**	NA	**0.332**	NA	**0.108**	NA
Nickel	150	2,200	2.6	8.4	**7.75**	NA	**16.6**	NA	**7.3**	NA
Potassium	NLE	NLE	NLE	15,400	**7,020**	NA	**6,700**	NA	**5,050**	NA
Selenium	39	580	0.052	1.9	**1.28**	NA	**1.27**	NA	**1.97**	NA
Silver	39	580	0.08	1.1	< 0.668	NA	< 0.791	NA	< 0.722	NA
Sodium	NLE	NLE	NLE	51.6	**113**	NA	**279**	NA	**101**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.668	NA	< 0.791	NA	< 0.722	NA
Vanadium	39	580	8.6	94.1	**58.4**	NA	**52**	NA	**39.4**	NA
Zinc	2,300	35,000	37	81.4	**84.9**	NA	**294**	NA	**63.4**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-94		FTMM02-B-95		FTMM02-B-96	
Sample ID					FTMM02-SS-B-94-0-1.0	FTMM02-SS-B-94-2-2	FTMM02-SS-B-95-0-1.0	FTMM02-SS-B-95-2-2	FTMM02-SS-B-96-0-1.0	FTMM02-SS-B-96-2-2
Sample Date					4/21/1999	4/21/1999	4/21/1999	4/21/1999	4/21/1999	4/21/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 530	NA	< 520	NA	< 500
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 270	NA	< 260	NA	< 250
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 530	NA	< 520	NA	< 500
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 530	NA	< 520	NA	< 500
Toluene	490,000	4,700,000	76	-	NA	< 270	NA	< 260	NA	< 250
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	ND	NA	ND	NA	ND
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1100	NA	< 1800	NA	< 1200	NA
Acenaphthene	350,000	4,500,000	550	-	< 1100	NA	< 1800	NA	< 1200	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1100	NA	< 1800	NA	< 1200	NA
Anthracene	1,700,000	23,000,000	5,800	-	**120 J**	NA	< 1800	NA	**470 J**	NA
Azobenzene	5,600	26,000	0.92	-	**99 J**	NA	< 1800	NA	< 1200	NA
Benzo(a)anthracene	150	2,900	12	-	**130 J**	NA	< 1800	NA	**1,400**	NA
Benzo(a)pyrene	15	290	4	-	< 1100	NA	< 1800	NA	**1,000 J**	NA
Benzo(b)fluoranthene	150	2,900	41	-	**120 J**	NA	< 1800	NA	**1,000 J**	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1100	NA	< 1800	NA	**540 J**	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**150 J**	NA	< 1800	NA	**1,100 J**	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**180 JB**	NA	< 1800	NA	**210 JB**	NA
Chrysene	15,000	290,000	1,200	-	**230 J**	NA	< 1800	NA	**2,400**	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1100	NA	< 1800	NA	< 1200	NA
Dibenzofuran	7,200	100,000	15	-	< 1100	NA	< 1800	NA	< 1200	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1100	NA	< 1800	NA	< 1200	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**210 JB**	NA	**440 JB**	NA	**620 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**170 J**	NA	< 1800	NA	**3,600**	NA
Fluorene	230,000	3,000,000	540	-	< 1100	NA	< 1800	NA	**160 J**	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1100	NA	< 1800	NA	**470 J**	NA
Naphthalene	3,800	17,000	0.54	-	< 1100	NA	< 1800	NA	< 1200	NA
Phenanthrene	NLE	NLE	NLE	-	**120 J**	NA	< 1800	NA	**2,800**	NA
Pyrene	170,000	2,300,000	1,300	-	**180 J**	NA	< 1800	NA	**3,300**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	ND	NA	**83,280**	NA	**15,170**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-94		FTMM02-B-95		FTMM02-B-96	
Sample ID					FTMM02-SS-B-94-0-1.0	FTMM02-SS-B-94-2-2	FTMM02-SS-B-95-0-1.0	FTMM02-SS-B-95-2-2	FTMM02-SS-B-96-0-1.0	FTMM02-SS-B-96-2-2
Sample Date					4/21/1999	4/21/1999	4/21/1999	4/21/1999	4/21/1999	4/21/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.118**	NA	< 0.0211	NA	**0.041**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.095**	NA	**0.066**	NA	**0.066**	NA
4,4'-DDT	1.9	8.6	0.077	-	< 0.0248	NA	**0.044**	NA	**0.194**	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0113	NA	**0.029**	NA	< 0.0121	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0113	NA	< 0.0176	NA	< 0.0121	NA
Endrin	1.8	25	0.0092	-	< 0.0113	NA	< 0.0176	NA	< 0.0121	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.009	NA	< 0.0141	NA	< 0.0097	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0113	NA	**0.028**	NA	**0.013**	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.3602	NA	< 0.1409	NA	< 0.097	NA
Aroclor-1248	0.24	1	0.006	-	< 0.1441	NA	< 0.0564	NA	< 0.0388	NA
Aroclor-1254	0.11	1	0.01	-	< 0.09	NA	< 0.0352	NA	< 0.0243	NA
Aroclor-1260	0.24	1	0.027	-	< 0.081	NA	< 0.0317	NA	< 0.0218	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**8,610**	NA	**12,000**	NA	**10,700**	NA
Antimony	3.1	47	0.035	ND	**0.728**	NA	**1.62**	NA	**1.15**	NA
Arsenic	0.67	3	0.0015	22.9	**9.41**	NA	**9.77**	NA	**7.74**	NA
Barium	1,500	22,000	16	32.3	**39.2**	NA	**104**	NA	**44.2**	NA
Beryllium	16	230	1.9	2	**1.35**	NA	**1.07**	NA	**0.835**	NA
Cadmium	7	98	0.069	ND	**0.171**	NA	**0.772**	NA	**156**	NA
Calcium	NLE	NLE	NLE	921	**1,550**	NA	**14,900**	NA	**3,110**	NA
Chromium	12,000	180,000	4,000,000	269	**119**	NA	**86.3**	NA	**81.4**	NA
Cobalt	2.3	35	0.027	2.5	**2.34**	NA	**3.06**	NA	**2.48**	NA
Copper	310	4,700	2.8	8	**9.85**	NA	**53.7**	NA	**33.4**	NA
Iron	5,500	82,000	35	55,800	**28,700**	NA	**29,800**	NA	**24,400**	NA
Lead	400	800	NLE	19.5	**23.4**	NA	**121**	NA	**59.6**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,580**	NA	**4,170**	NA	**2,970**	NA
Manganese	180	2,600	2.8	90.7	**27.9**	NA	**362**	NA	**204**	NA
Mercury	2.3	35	0.0033	ND	**0.135**	NA	**0.458**	NA	**0.259**	NA
Nickel	150	2,200	2.6	8.4	**9.14**	NA	**14.4**	NA	**9.31**	NA
Potassium	NLE	NLE	NLE	15,400	**7,410**	NA	**6,760**	NA	**5,560**	NA
Selenium	39	580	0.052	1.9	**1.76**	NA	**1.25**	NA	< 0.803	NA
Silver	39	580	0.08	1.1	< 0.666	NA	< 0.965	NA	< 0.803	NA
Sodium	NLE	NLE	NLE	51.6	**142**	NA	**217**	NA	**165**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.666	NA	< 0.965	NA	< 0.803	NA
Vanadium	39	580	8.6	94.1	**45.4**	NA	**49.8**	NA	**43.5**	NA
Zinc	2,300	35,000	37	81.4	**81.1**	NA	**273**	NA	**131**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-97		FTMM02-B-98		FTMM02-B-99	
Sample ID					FTMM02-SS-B-97-0-1.0	FTMM02-SS-B-97-2-2	FTMM02-SS-B-98-0-1.0	FTMM02-SS-B-98-2-2	FTMM02-SS-B-99-0-1.0	FTMM02-SS-B-99-2-2
Sample Date					4/26/1999	4/26/1999	4/26/1999	4/26/1999	4/26/1999	4/26/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	< 600	NA	< 610	NA	< 560
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	< 300	NA	< 300	NA	< 280
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	< 600	NA	< 610	NA	< 560
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	< 600	NA	< 610	NA	< 560
Toluene	490,000	4,700,000	76	-	NA	< 300	NA	< 300	NA	< 280
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	**2,200**	NA	**2,400**	NA	**2,200**
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	< 1200	NA	< 1400	NA	< 1100	NA
Acenaphthene	350,000	4,500,000	550	-	< 1200	NA	< 1400	NA	< 1100	NA
Acenaphthylene	NLE	NLE	NLE	-	< 1200	NA	< 1400	NA	< 1100	NA
Anthracene	1,700,000	23,000,000	5,800	-	< 1200	NA	< 1400	NA	< 1100	NA
Azobenzene	5,600	26,000	0.92	-	< 1200	NA	< 1400	NA	< 1100	NA
Benzo(a)anthracene	150	2,900	12	-	**440 J**	NA	**150 J**	NA	< 1100	NA
Benzo(a)pyrene	15	290	4	-	**380 J**	NA	< 1400	NA	< 1100	NA
Benzo(b)fluoranthene	150	2,900	41	-	**330 J**	NA	< 1400	NA	< 1100	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	**150 J**	NA	< 1400	NA	< 1100	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	**380 J**	NA	< 1400	NA	< 1100	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	**2,000 B**	NA	< 1400	NA	< 1100	NA
Chrysene	15,000	290,000	1,200	-	**500 J**	NA	**220 J**	NA	**170 J**	NA
Dibenz(a,h)anthracene	15	290	13	-	< 1200	NA	< 1400	NA	< 1100	NA
Dibenzofuran	7,200	100,000	15	-	< 1200	NA	< 1400	NA	< 1100	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	< 1200	NA	< 1400	NA	< 1100	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	**190 JB**	NA	**330 JB**	NA	**140 JB**	NA
Fluoranthene	230,000	3,000,000	8,900	-	**300 J**	NA	**180 J**	NA	**130 J**	NA
Fluorene	230,000	3,000,000	540	-	< 1200	NA	< 1400	NA	< 1100	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	< 1200	NA	< 1400	NA	< 1100	NA
Naphthalene	3,800	17,000	0.54	-	< 1200	NA	< 1400	NA	< 1100	NA
Phenanthrene	NLE	NLE	NLE	-	< 1200	NA	< 1400	NA	< 1100	NA
Pyrene	170,000	2,300,000	1,300	-	**310 J**	NA	**170 J**	NA	**170 J**	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	**1,600**	NA	**27,330**	NA	**37,800**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-B-97		FTMM02-B-98		FTMM02-B-99	
Sample ID					FTMM02-SS-B-97-0-1.0	FTMM02-SS-B-97-2-2	FTMM02-SS-B-98-0-1.0	FTMM02-SS-B-98-2-2	FTMM02-SS-B-99-0-1.0	FTMM02-SS-B-99-2-2
Sample Date					4/26/1999	4/26/1999	4/26/1999	4/26/1999	4/26/1999	4/26/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	**0.033**	NA	**0.026**	NA	**0.088**	NA
4,4'-DDE	1.6	6.8	0.054	-	**0.082**	NA	**0.067**	NA	**0.044**	NA
4,4'-DDT	1.9	8.6	0.077	-	**0.225**	NA	**0.076**	NA	**0.047**	NA
Alpha-Chlordane	1.8	8	0.015	-	< 0.0124	NA	**0.023**	NA	< 0.0109	NA
Dieldrin	0.033	0.14	0.000069	-	< 0.0124	NA	< 0.0143	NA	< 0.0109	NA
Endrin	1.8	25	0.0092	-	< 0.0124	NA	< 0.0143	NA	< 0.0109	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	< 0.0099	NA	< 0.0114	NA	< 0.0087	NA
Gamma-Chlordane	1.8	8	0.015	-	< 0.0124	NA	**0.027**	NA	< 0.0109	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	< 0.0992	NA	< 0.1144	NA	< 0.349	NA
Aroclor-1248	0.24	1	0.006	-	< 0.0397	NA	< 0.0457	NA	< 0.1396	NA
Aroclor-1254	0.11	1	0.01	-	< 0.0248	NA	< 0.0286	NA	< 0.0873	NA
Aroclor-1260	0.24	1	0.027	-	< 0.0223	NA	< 0.0257	NA	< 0.0785	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	**11,300**	NA	**7,130**	NA	**12,700**	NA
Antimony	3.1	47	0.035	ND	**3.19**	NA	**1.34**	NA	**0.731**	NA
Arsenic	0.67	3	0.0015	22.9	**9.27**	NA	**7.03**	NA	**11.3**	NA
Barium	1,500	22,000	16	32.3	**41.3**	NA	**47.7**	NA	**31.1**	NA
Beryllium	16	230	1.9	2	**0.83**	NA	**0.651**	NA	**1.67**	NA
Cadmium	7	98	0.069	ND	**2.68**	NA	**0.71**	NA	**0.384**	NA
Calcium	NLE	NLE	NLE	921	**3,770**	NA	**5,210**	NA	**1,060**	NA
Chromium	12,000	180,000	4,000,000	269	**80.9**	NA	**59.9**	NA	**188**	NA
Cobalt	2.3	35	0.027	2.5	**2.53**	NA	**2.15**	NA	**0.852**	NA
Copper	310	4,700	2.8	8	**30.6**	NA	**27.2**	NA	**8.96**	NA
Iron	5,500	82,000	35	55,800	**27,600**	NA	**19,200**	NA	**42,600**	NA
Lead	400	800	NLE	19.5	**69.4**	NA	**147**	NA	**14.9**	NA
Magnesium	NLE	NLE	NLE	7,230	**3,130**	NA	**2,520**	NA	**5,910**	NA
Manganese	180	2,600	2.8	90.7	**121**	NA	**195**	NA	**26.6**	NA
Mercury	2.3	35	0.0033	ND	**0.146**	NA	**0.177**	NA	**0.092**	NA
Nickel	150	2,200	2.6	8.4	**8.83**	NA	**7.52**	NA	**5.04**	NA
Potassium	NLE	NLE	NLE	15,400	**5,170**	NA	**4,280**	NA	**13,700**	NA
Selenium	39	580	0.052	1.9	**1.19**	NA	< 0.811	NA	**1.1**	NA
Silver	39	580	0.08	1.1	< 0.762	NA	< 0.811	NA	< 0.691	NA
Sodium	NLE	NLE	NLE	51.6	**143**	NA	**197**	NA	**118**	NA
Thallium	0.078	1.2	0.0014	ND	< 0.762	NA	< 0.811	NA	< 0.691	NA
Vanadium	39	580	8.6	94.1	**47.9**	NA	**32.7**	NA	**64.8**	NA
Zinc	2,300	35,000	37	81.4	**164**	NA	**208**	NA	**70.9**	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-67E		FTMM02-M2-B-1			
Sample ID					FTMM02-SS-M2-67E-8-8	FTMM02-SS-M2-67E-8-8-Dup	FTMM02-SS-M2-B-1-0-0.5	FTMM02-SS-M2-B-1-1-1.5	FTMM02-SS-M2-B-1-2-2.5	FTMM02-SS-M2-B-1-3-3.5
Sample Date					12/7/1999	12/7/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	ND	ND	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	ND	ND	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	ND	ND	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	**410**	**440**	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	ND	ND	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	ND	ND	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	ND	ND	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-67E		FTMM02-M2-B-1			
Sample ID					FTMM02-SS-M2-67E-8-8	FTMM02-SS-M2-67E-8-8-Dup	FTMM02-SS-M2-B-1-0-0.5	FTMM02-SS-M2-B-1-1-1.5	FTMM02-SS-M2-B-1-2-2.5	FTMM02-SS-M2-B-1-3-3.5
Sample Date					12/7/1999	12/7/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	**0.063**	**0.053**	ND	ND
Aroclor-1242	0.24	1	0.0061	-	NA	NA	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	NA	NA	**0.054**	**0.236**	**0.041**	ND
PCB (total)	0.24	1	0.03	-	NA	NA	**0.117**	**0.289**	**0.041**	ND
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-1					
Sample ID					FTMM02-SS-M2-B-1-4-4.5	FTMM02-SS-M2-B-1-5-5.5	FTMM02-SS-M2-B-1-6-6.5	FTMM02-SS-M2-B-1-7-7.5	FTMM02-SS-M2-B-1-8-8.5	FTMM02-SS-M2-B-1-9-9.5
Sample Date					2/17/1999	2/17/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-1					
Sample ID					FTMM02-SS-M2-B-1-4-4.5	FTMM02-SS-M2-B-1-5-5.5	FTMM02-SS-M2-B-1-6-6.5	FTMM02-SS-M2-B-1-7-7.5	FTMM02-SS-M2-B-1-8-8.5	FTMM02-SS-M2-B-1-9-9.5
Sample Date					2/17/1999	2/17/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	**8.669**	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**1.137**	**3.206**	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**9.806**	**3.206**	ND	ND	ND	ND
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10					
Sample ID					FTMM02-SS-M2-B-10-0-0.5	FTMM02-SS-M2-B-10-1-1.5	FTMM02-SS-M2-B-10-2-2.5	FTMM02-SS-M2-B-10-3-3.5	FTMM02-SS-M2-B-10-4-4.5	FTMM02-SS-M2-B-10-5-5.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10					
Sample ID					FTMM02-SS-M2-B-10-0-0.5	FTMM02-SS-M2-B-10-1-1.5	FTMM02-SS-M2-B-10-2-2.5	FTMM02-SS-M2-B-10-3-3.5	FTMM02-SS-M2-B-10-4-4.5	FTMM02-SS-M2-B-10-5-5.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	ND	**0.379**	**1.042**	**0.704**	**0.159**	**6.392**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.054**	**0.037**	**0.059**	**0.065**	**0.086**	**8.381**
PCB (total)	0.24	1	0.03	-	**0.054**	**0.416**	**1.101**	**0.769**	**0.245**	**14.773**
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10				FTMM02-M2-B-100	FTMM02-M2-B-101
Sample ID					FTMM02-SS-M2-B-10-6-6.5	FTMM02-SS-M2-B-10-7-7.5	FTMM02-SS-M2-B-10-8-8.5	FTMM02-SS-M2-B-10-9-9.5	FTMM02-SS-M2-B-100-5-5	FTMM02-SS-M2-B-101-9-9
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000	4/26/1999	4/26/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	ND	ND
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	ND	ND
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	ND	ND
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	ND	ND
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	ND	ND
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	ND	ND
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	ND	ND
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10				FTMM02-M2-B-100	FTMM02-M2-B-101
Sample ID					FTMM02-SS-M2-B-10-6-6.5	FTMM02-SS-M2-B-10-7-7.5	FTMM02-SS-M2-B-10-8-8.5	FTMM02-SS-M2-B-10-9-9.5	FTMM02-SS-M2-B-100-5-5	FTMM02-SS-M2-B-101-9-9
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000	4/26/1999	4/26/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	NA	NA
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	NA	NA
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	NA	NA
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-102	FTMM02-M2-B-103	FTMM02-M2-B-104	FTMM02-M2-B-105	FTMM02-M2-B-106
Sample ID					FTMM02-SS-M2-B-102-7.5-7.5	FTMM02-SS-M2-B-103-7.5-7.5	FTMM02-SS-M2-B-104-8-8	FTMM02-SS-M2-B-105-5-5	FTMM02-SS-M2-B-106-6-6
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	**1,500**	**1,300**	**1,300**	ND	**1,400**
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-102	FTMM02-M2-B-103	FTMM02-M2-B-104	FTMM02-M2-B-105	FTMM02-M2-B-106
Sample ID					FTMM02-SS-M2-B-102-7.5-7.5	FTMM02-SS-M2-B-103-7.5-7.5	FTMM02-SS-M2-B-104-8-8	FTMM02-SS-M2-B-105-5-5	FTMM02-SS-M2-B-106-6-6
Sample Date					4/27/1999	4/27/1999	4/27/1999	4/27/1999	4/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-107		FTMM02-M2-B-108	FTMM02-M2-B-109	FTMM02-M2-B-10A
Sample ID					FTMM02-SS-M2-B-107-7.5-7.5-Dup	FTMM02-SS-M2-B-107-9-9	FTMM02-SS-M2-B-108-5-5	FTMM02-SS-M2-B-109-5-5	FTMM02-SS-M2-B-10A-0-0.5
Sample Date					4/27/1999	4/27/1999	5/4/1999	5/4/1999	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	NA
Benzene	1,200	5,100	0.23	-	ND	ND	ND	**340**	NA
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	NA
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	NA
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	NA
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	NA
Methylene chloride	35,000	320,000	2.7	-	**1,100**	**1,300**	**1,700**	**1,100**	NA
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	NA
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-107		FTMM02-M2-B-108	FTMM02-M2-B-109	FTMM02-M2-B-10A
Sample ID					FTMM02-SS-M2-B-107-7.5-7.5-Dup	FTMM02-SS-M2-B-107-9-9	FTMM02-SS-M2-B-108-5-5	FTMM02-SS-M2-B-109-5-5	FTMM02-SS-M2-B-10A-0-0.5
Sample Date					4/27/1999	4/27/1999	5/4/1999	5/4/1999	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	ND
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	ND
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	ND
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10A				
Sample ID					FTMM02-SS-M2-B-10A-1-1.5	FTMM02-SS-M2-B-10A-2-2.5	FTMM02-SS-M2-B-10A-3-3.5	FTMM02-SS-M2-B-10A-4-4.5	FTMM02-SS-M2-B-10A-5-5.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10A				
Sample ID					FTMM02-SS-M2-B-10A-1-1.5	FTMM02-SS-M2-B-10A-2-2.5	FTMM02-SS-M2-B-10A-3-3.5	FTMM02-SS-M2-B-10A-4-4.5	FTMM02-SS-M2-B-10A-5-5.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	**0.497**	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	**0.497**	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10A			FTMM02-M2-B-10B	
Sample ID					FTMM02-SS-M2-B-10A-6-6.5	FTMM02-SS-M2-B-10A-7-7.5	FTMM02-SS-M2-B-10A-8-8.5	FTMM02-SS-M2-B-10B-0-0.5	FTMM02-SS-M2-B-10B-1-1.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10A			FTMM02-M2-B-10B	
Sample ID					FTMM02-SS-M2-B-10A-6-6.5	FTMM02-SS-M2-B-10A-7-7.5	FTMM02-SS-M2-B-10A-8-8.5	FTMM02-SS-M2-B-10B-0-0.5	FTMM02-SS-M2-B-10B-1-1.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	**0.314**	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	**0.314**	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10B				
Sample ID					FTMM02-SS-M2-B-10B-2-2.5	FTMM02-SS-M2-B-10B-3-3.5	FTMM02-SS-M2-B-10B-4-4.5	FTMM02-SS-M2-B-10B-5-5.5	FTMM02-SS-M2-B-10B-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10B				
Sample ID					FTMM02-SS-M2-B-10B-2-2.5	FTMM02-SS-M2-B-10B-3-3.5	FTMM02-SS-M2-B-10B-4-4.5	FTMM02-SS-M2-B-10B-5-5.5	FTMM02-SS-M2-B-10B-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	**1.192**	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**1.192**	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10B			FTMM02-M2-B-10C	
Sample ID					FTMM02-SS-M2-B-10B-7-7.5	FTMM02-SS-M2-B-10B-8-8.5	FTMM02-SS-M2-B-10B-9-9.5	FTMM02-SS-M2-B-10C-0-0.5	FTMM02-SS-M2-B-10C-1-1.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10B			FTMM02-M2-B-10C	
Sample ID					FTMM02-SS-M2-B-10B-7-7.5	FTMM02-SS-M2-B-10B-8-8.5	FTMM02-SS-M2-B-10B-9-9.5	FTMM02-SS-M2-B-10C-0-0.5	FTMM02-SS-M2-B-10C-1-1.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	**0.983**	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	**0.983**	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10C				
Sample ID					FTMM02-SS-M2-B-10C-2-2.5	FTMM02-SS-M2-B-10C-3-3.5	FTMM02-SS-M2-B-10C-4-4.5	FTMM02-SS-M2-B-10C-5-5.5	FTMM02-SS-M2-B-10C-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10C				
Sample ID					FTMM02-SS-M2-B-10C-2-2.5	FTMM02-SS-M2-B-10C-3-3.5	FTMM02-SS-M2-B-10C-4-4.5	FTMM02-SS-M2-B-10C-5-5.5	FTMM02-SS-M2-B-10C-6-6.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	**33.606**
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	**33.606**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10C			FTMM02-M2-B-10D	
Sample ID					FTMM02-SS-M2-B-10C-7-7.5	FTMM02-SS-M2-B-10C-8-8.5	FTMM02-SS-M2-B-10C-9-9.5	FTMM02-SS-M2-B-10D-0-0.5	FTMM02-SS-M2-B-10D-1-1.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/29/2000	2/29/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10C			FTMM02-M2-B-10D	
Sample ID					FTMM02-SS-M2-B-10C-7-7.5	FTMM02-SS-M2-B-10C-8-8.5	FTMM02-SS-M2-B-10C-9-9.5	FTMM02-SS-M2-B-10D-0-0.5	FTMM02-SS-M2-B-10D-1-1.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/29/2000	2/29/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10D				
Sample ID					FTMM02-SS-M2-B-10D-2-2.5	FTMM02-SS-M2-B-10D-3-3.5	FTMM02-SS-M2-B-10D-4-4.5	FTMM02-SS-M2-B-10D-5-5.5	FTMM02-SS-M2-B-10D-6-6.5
Sample Date					2/29/2000	2/29/2000	2/29/2000	2/29/2000	2/29/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10D				
Sample ID					FTMM02-SS-M2-B-10D-2-2.5	FTMM02-SS-M2-B-10D-3-3.5	FTMM02-SS-M2-B-10D-4-4.5	FTMM02-SS-M2-B-10D-5-5.5	FTMM02-SS-M2-B-10D-6-6.5
Sample Date					2/29/2000	2/29/2000	2/29/2000	2/29/2000	2/29/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10D	
Sample ID					FTMM02-SS-M2-B-10D-7-7.5	FTMM02-SS-M2-B-10D-8-8.5
Sample Date					2/29/2000	2/29/2000
Volatile Organic Compounds (µg/kg)						
Acetone	6,100,000	67,000,000	290	-	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA
TIC VOCs (µg/kg)						
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA
Semivolatile Organic Compounds (µg/kg)						
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA
TIC SVOCs (µg/kg)						
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10D	
Sample ID					FTMM02-SS-M2-B-10D-7-7.5	FTMM02-SS-M2-B-10D-8-8.5
Sample Date					2/29/2000	2/29/2000
Pesticides & PCBs (mg/kg)						
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA
Pesticides & PCBs (mg/kg)						
Aroclor-1016	0.4	5.2	0.013	-	ND	ND
Aroclor-1242	0.24	1	0.0061	-	**2.145**	**14.152**
Aroclor-1248	0.24	1	0.006	-	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND
PCB (total)	0.24	1	0.03	-	**2.145**	**14.152**
Inorganics (mg/kg)						
Aluminum	7,700	110,000	3,000	15,200	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA
Beryllium	16	230	1.9	2	NA	NA
Cadmium	7	98	0.069	ND	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA
Copper	310	4,700	2.8	8	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA
Lead	400	800	NLE	19.5	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA
Selenium	39	580	0.052	1.9	NA	NA
Silver	39	580	0.08	1.1	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10D			
Sample ID					FTMM02-SS-M2-B-10D-10-10.5	FTMM02-SS-M2-B-10D-11-11.5	FTMM02-SS-M2-B-10D-12-12.5	FTMM02-SS-M2-B-10D-9-9.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10D			
Sample ID					FTMM02-SS-M2-B-10D-10-10.5	FTMM02-SS-M2-B-10D-11-11.5	FTMM02-SS-M2-B-10D-12-12.5	FTMM02-SS-M2-B-10D-9-9.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-0-0.5	FTMM02-SS-M2-B-10E-10.2-10.7	FTMM02-SS-M2-B-10E-11.2-11.7	FTMM02-SS-M2-B-10E-1-1.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-0-0.5	FTMM02-SS-M2-B-10E-10.2-10.7	FTMM02-SS-M2-B-10E-11.2-11.7	FTMM02-SS-M2-B-10E-1-1.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	**1.682**	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**1.682**	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-12-12.5	FTMM02-SS-M2-B-10E-2-2.5	FTMM02-SS-M2-B-10E-3-3.5	FTMM02-SS-M2-B-10E-4-4.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-12-12.5	FTMM02-SS-M2-B-10E-2-2.5	FTMM02-SS-M2-B-10E-3-3.5	FTMM02-SS-M2-B-10E-4-4.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-5-5.5	FTMM02-SS-M2-B-10E-6-6.5	FTMM02-SS-M2-B-10E-7-7.5	FTMM02-SS-M2-B-10E-8-8.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10E			
Sample ID					FTMM02-SS-M2-B-10E-5-5.5	FTMM02-SS-M2-B-10E-6-6.5	FTMM02-SS-M2-B-10E-7-7.5	FTMM02-SS-M2-B-10E-8-8.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	**0.432**	**1.484**
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	**0.432**	**1.484**
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10E	FTMM02-M2-B-10F		
Sample ID					FTMM02-SS-M2-B-10E-9-9.5	FTMM02-SS-M2-B-10F-0-0.5	FTMM02-SS-M2-B-10F-1-1.5	FTMM02-SS-M2-B-10F-2-2.5
Sample Date					3/8/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10E	FTMM02-M2-B-10F		
Sample ID					FTMM02-SS-M2-B-10E-9-9.5	FTMM02-SS-M2-B-10F-0-0.5	FTMM02-SS-M2-B-10F-1-1.5	FTMM02-SS-M2-B-10F-2-2.5
Sample Date					3/8/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10F			
Sample ID					FTMM02-SS-M2-B-10F-3-3.5	FTMM02-SS-M2-B-10F-4-4.5	FTMM02-SS-M2-B-10F-5-5.5	FTMM02-SS-M2-B-10F-6-6.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-10F			
Sample ID					FTMM02-SS-M2-B-10F-3-3.5	FTMM02-SS-M2-B-10F-4-4.5	FTMM02-SS-M2-B-10F-5-5.5	FTMM02-SS-M2-B-10F-6-6.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10F			FTMM02-M2-B-11
Sample ID					FTMM02-SS-M2-B-10F-7-7.5	FTMM02-SS-M2-B-10F-8-8.5	FTMM02-SS-M2-B-10F-9-9.5	FTMM02-SS-M2-B-11-0-0.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	2/22/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-10F			FTMM02-M2-B-11
Sample ID					FTMM02-SS-M2-B-10F-7-7.5	FTMM02-SS-M2-B-10F-8-8.5	FTMM02-SS-M2-B-10F-9-9.5	FTMM02-SS-M2-B-11-0-0.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	2/22/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	**1.23**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	**0.126**
PCB (total)	0.24	1	0.03	-	ND	ND	ND	**1.356**
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11				
Sample ID					FTMM02-SS-M2-B-11-1-1.5	FTMM02-SS-M2-B-11-2-2.5	FTMM02-SS-M2-B-11-3-3.5	FTMM02-SS-M2-B-11-4-4.5	FTMM02-SS-M2-B-11-5-5.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11				
Sample ID					FTMM02-SS-M2-B-11-1-1.5	FTMM02-SS-M2-B-11-2-2.5	FTMM02-SS-M2-B-11-3-3.5	FTMM02-SS-M2-B-11-4-4.5	FTMM02-SS-M2-B-11-5-5.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	**0.157**	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.06**	ND	ND	**0.234**	**0.033**
PCB (total)	0.24	1	0.03	-	**0.217**	ND	ND	**0.234**	**0.033**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-110	FTMM02-M2-B-111	FTMM02-M2-B-112	FTMM02-M2-B-113	FTMM02-M2-B-113A
Sample ID					FTMM02-SS-M2-B-110-5-5	FTMM02-SS-M2-B-111-4-4	FTMM02-SS-M2-B-112-4-4	FTMM02-SS-M2-B-113-5-5	FTMM02-SS-M2-B-113A-7.5-7.5
Sample Date					5/4/1999	5/4/1999	5/4/1999	5/6/1999	11/8/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-110	FTMM02-M2-B-111	FTMM02-M2-B-112	FTMM02-M2-B-113	FTMM02-M2-B-113A
Sample ID					FTMM02-SS-M2-B-110-5-5	FTMM02-SS-M2-B-111-4-4	FTMM02-SS-M2-B-112-4-4	FTMM02-SS-M2-B-113-5-5	FTMM02-SS-M2-B-113A-7.5-7.5
Sample Date					5/4/1999	5/4/1999	5/4/1999	5/6/1999	11/8/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-113D	FTMM02-M2-B-113E	FTMM02-M2-B-113F	
Sample ID					FTMM02-SS-M2-B-113D-7.5-7.5	FTMM02-SS-M2-B-113E-7.5-7.5	FTMM02-SS-M2-B-113F-2.7-3.5	FTMM02-SS-M2-B-113F-5-5.5
Sample Date					12/1/1999	12/2/1999	1/3/2000	1/3/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	**1,100**	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	**390**	**550**	**760**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	**6,700**	**7,300**
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-113D	FTMM02-M2-B-113E	FTMM02-M2-B-113F	
Sample ID					FTMM02-SS-M2-B-113D-7.5-7.5	FTMM02-SS-M2-B-113E-7.5-7.5	FTMM02-SS-M2-B-113F-2.7-3.5	FTMM02-SS-M2-B-113F-5-5.5
Sample Date					12/1/1999	12/2/1999	1/3/2000	1/3/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-113G			FTMM02-M2-B-113H
Sample ID					FTMM02-SS-M2-B-113G-2.5-3	FTMM02-SS-M2-B-113G-5.5-6	FTMM02-SS-M2-B-113G-5-5.5	FTMM02-SS-M2-B-113H-4.5-5
Sample Date					1/4/2000	1/4/2000	1/4/2000	1/5/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	**2,300**	**5,600**
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	**840**
Chloroform	320	1,400	0.061	-	**1,400**	**1,600**	**1,500**	**930**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**1,700**	ND	**1,600**	**2,700**
Methylene chloride	35,000	320,000	2.7	-	**640**	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-113G			FTMM02-M2-B-113H
Sample ID					FTMM02-SS-M2-B-113G-2.5-3	FTMM02-SS-M2-B-113G-5.5-6	FTMM02-SS-M2-B-113G-5-5.5	FTMM02-SS-M2-B-113H-4.5-5
Sample Date					1/4/2000	1/4/2000	1/4/2000	1/5/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-113H	FTMM02-M2-B-113I	FTMM02-M2-B-114	FTMM02-M2-B-114A
Sample ID					FTMM02-SS-M2-B-113H-4-4.5	FTMM02-SS-M2-B-113I-4.5-5	FTMM02-SS-M2-B-114-5-5	FTMM02-SS-M2-B-114A-7.5-7.5
Sample Date					1/5/2000	1/6/2000	5/6/1999	11/8/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	**4,300**	ND	**4,600**	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	**770**
Chloroform	320	1,400	0.061	-	**540**	**810**	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**2,000**	**1,700**	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-113H	FTMM02-M2-B-113I	FTMM02-M2-B-114	FTMM02-M2-B-114A
Sample ID					FTMM02-SS-M2-B-113H-4-4.5	FTMM02-SS-M2-B-113I-4.5-5	FTMM02-SS-M2-B-114-5-5	FTMM02-SS-M2-B-114A-7.5-7.5
Sample Date					1/5/2000	1/6/2000	5/6/1999	11/8/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-114B	FTMM02-M2-B-114C	FTMM02-M2-B-114D	FTMM02-M2-B-114E
Sample ID					FTMM02-SS-M2-B-114B-7.5-7.5	FTMM02-SS-M2-B-114C-7.5-7.5	FTMM02-SS-M2-B-114D-7.5-7.5	FTMM02-SS-M2-B-114E-7.5-7.5
Sample Date					11/10/1999	11/30/1999	12/1/1999	12/2/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	**490**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	**1,100**
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	**1,200**	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	**540**
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	**4,000**
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-114B	FTMM02-M2-B-114C	FTMM02-M2-B-114D	FTMM02-M2-B-114E
Sample ID					FTMM02-SS-M2-B-114B-7.5-7.5	FTMM02-SS-M2-B-114C-7.5-7.5	FTMM02-SS-M2-B-114D-7.5-7.5	FTMM02-SS-M2-B-114E-7.5-7.5
Sample Date					11/10/1999	11/30/1999	12/1/1999	12/2/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-114F		FTMM02-M2-B-114G	FTMM02-M2-B-114H
Sample ID					FTMM02-SS-M2-B-114F-2.5-3	FTMM02-SS-M2-B-114F-5-5.5	FTMM02-SS-M2-B-114G-5-5.5	FTMM02-SS-M2-B-114H-2-2.5
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/5/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	**3,500**
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**860**	**830**	**2,000**	**560**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**7,600**	**7,500**	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-114F		FTMM02-M2-B-114G	FTMM02-M2-B-114H
Sample ID					FTMM02-SS-M2-B-114F-2.5-3	FTMM02-SS-M2-B-114F-5-5.5	FTMM02-SS-M2-B-114G-5-5.5	FTMM02-SS-M2-B-114H-2-2.5
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/5/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-114H		FTMM02-M2-B-114I	FTMM02-M2-B-115
Sample ID					FTMM02-SS-M2-B-114H-4.5-5	FTMM02-SS-M2-B-114H-5-5.5	FTMM02-SS-M2-B-114I-4.5-5	FTMM02-SS-M2-B-115-5-5
Sample Date					1/5/2000	1/5/2000	1/6/2000	5/6/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	**3,600**	ND	ND	**5,000**
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**590**	**330**	**630**	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**1,700**	**1,500**	**1,500**	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-114H		FTMM02-M2-B-114I	FTMM02-M2-B-115
Sample ID					FTMM02-SS-M2-B-114H-4.5-5	FTMM02-SS-M2-B-114H-5-5.5	FTMM02-SS-M2-B-114I-4.5-5	FTMM02-SS-M2-B-115-5-5
Sample Date					1/5/2000	1/5/2000	1/6/2000	5/6/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-115A	FTMM02-M2-B-115B	FTMM02-M2-B-115C	FTMM02-M2-B-115D
Sample ID					FTMM02-SS-M2-B-115A-7.5-7.5	FTMM02-SS-M2-B-115B-7.5-7.5	FTMM02-SS-M2-B-115C-7.5-7.5	FTMM02-SS-M2-B-115D-7.5-7.5
Sample Date					11/8/1999	11/10/1999	11/30/1999	12/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-115A	FTMM02-M2-B-115B	FTMM02-M2-B-115C	FTMM02-M2-B-115D
Sample ID					FTMM02-SS-M2-B-115A-7.5-7.5	FTMM02-SS-M2-B-115B-7.5-7.5	FTMM02-SS-M2-B-115C-7.5-7.5	FTMM02-SS-M2-B-115D-7.5-7.5
Sample Date					11/8/1999	11/10/1999	11/30/1999	12/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-115E	FTMM02-M2-B-115F		
Sample ID					FTMM02-SS-M2-B-115E-7.5-7.5	FTMM02-SS-M2-B-115F-3-3.5	FTMM02-SS-M2-B-115F-4.5-5	FTMM02-SS-M2-B-115F-5-5.5
Sample Date					12/2/1999	1/3/2000	1/3/2000	1/3/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	**770**	**840**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	**6,200**	**7,200**
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-115E	FTMM02-M2-B-115F		
Sample ID					FTMM02-SS-M2-B-115E-7.5-7.5	FTMM02-SS-M2-B-115F-3-3.5	FTMM02-SS-M2-B-115F-4.5-5	FTMM02-SS-M2-B-115F-5-5.5
Sample Date					12/2/1999	1/3/2000	1/3/2000	1/3/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-115G		FTMM02-M2-B-115H	
Sample ID					FTMM02-SS-M2-B-115G-1.5-2	FTMM02-SS-M2-B-115G-6-6.5	FTMM02-SS-M2-B-115H-3-3.5	FTMM02-SS-M2-B-115H-5-5.5
Sample Date					1/4/2000	1/4/2000	1/5/2000	1/5/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	**2,400**	**2,800**	**4,700**
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**1,500**	**1,700**	**400**	**520**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**1,400**	**1,600**	**1,400**	**2,200**
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-115G		FTMM02-M2-B-115H	
Sample ID					FTMM02-SS-M2-B-115G-1.5-2	FTMM02-SS-M2-B-115G-6-6.5	FTMM02-SS-M2-B-115H-3-3.5	FTMM02-SS-M2-B-115H-5-5.5
Sample Date					1/4/2000	1/4/2000	1/5/2000	1/5/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-115I	FTMM02-M2-B-116	FTMM02-M2-B-116A	FTMM02-M2-B-116B
Sample ID					FTMM02-SS-M2-B-115I-4.5-5	FTMM02-SS-M2-B-116-5-5	FTMM02-SS-M2-B-116A-7.5-7.5	FTMM02-SS-M2-B-116B-7.5-7.5
Sample Date					1/6/2000	5/6/1999	11/8/1999	11/10/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	**5,100**	**5,100**	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**680**	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-115I	FTMM02-M2-B-116	FTMM02-M2-B-116A	FTMM02-M2-B-116B
Sample ID					FTMM02-SS-M2-B-115I-4.5-5	FTMM02-SS-M2-B-116-5-5	FTMM02-SS-M2-B-116A-7.5-7.5	FTMM02-SS-M2-B-116B-7.5-7.5
Sample Date					1/6/2000	5/6/1999	11/8/1999	11/10/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-116C	FTMM02-M2-B-116D	FTMM02-M2-B-116E	
Sample ID					FTMM02-SS-M2-B-116C-7.5-7.5	FTMM02-SS-M2-B-116D-7.5-7.5	FTMM02-SS-M2-B-116E-7.5-7.5	FTMM02-SS-M2-B-116E-7.5-7.5-Dup
Sample Date					11/30/1999	12/1/1999	12/2/1999	12/2/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-116C	FTMM02-M2-B-116D	FTMM02-M2-B-116E	
Sample ID					FTMM02-SS-M2-B-116C-7.5-7.5	FTMM02-SS-M2-B-116D-7.5-7.5	FTMM02-SS-M2-B-116E-7.5-7.5	FTMM02-SS-M2-B-116E-7.5-7.5-Dup
Sample Date					11/30/1999	12/1/1999	12/2/1999	12/2/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-116F		FTMM02-M2-B-116G	FTMM02-M2-B-116H
Sample ID					FTMM02-SS-M2-B-116F-1-1.5	FTMM02-SS-M2-B-116F-5-5.5	FTMM02-SS-M2-B-116G-6-6.5	FTMM02-SS-M2-B-116H-3-3.5
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/5/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	**2,800**
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**780**	**520**	**1,500**	**440**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**7,000**	**5,000**	**1,500**	**1,400**
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-116F		FTMM02-M2-B-116G	FTMM02-M2-B-116H
Sample ID					FTMM02-SS-M2-B-116F-1-1.5	FTMM02-SS-M2-B-116F-5-5.5	FTMM02-SS-M2-B-116G-6-6.5	FTMM02-SS-M2-B-116H-3-3.5
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/5/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-116H		FTMM02-M2-B-116I	FTMM02-M2-B-117
Sample ID					FTMM02-SS-M2-B-116H-4.5-5	FTMM02-SS-M2-B-116H-6-6.5	FTMM02-SS-M2-B-116I-4.5-5	FTMM02-SS-M2-B-117-4.5-4.5
Sample Date					1/5/2000	1/5/2000	1/6/2000	5/6/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	**3,500**	**3,500**	**9,500**	**5,500**
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**520**	**500**	**980**	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**1,700**	**1,700**	**4,600**	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-116H		FTMM02-M2-B-116I	FTMM02-M2-B-117
Sample ID					FTMM02-SS-M2-B-116H-4.5-5	FTMM02-SS-M2-B-116H-6-6.5	FTMM02-SS-M2-B-116I-4.5-5	FTMM02-SS-M2-B-117-4.5-4.5
Sample Date					1/5/2000	1/5/2000	1/6/2000	5/6/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-117A	FTMM02-M2-B-117B	FTMM02-M2-B-117C	FTMM02-M2-B-117D
Sample ID					FTMM02-SS-M2-B-117A-7.5-7.5	FTMM02-SS-M2-B-117B-7.5-7.5	FTMM02-SS-M2-B-117C-7.5-7.5	FTMM02-SS-M2-B-117D-7.5-7.5
Sample Date					11/10/1999	11/10/1999	11/30/1999	12/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	**350**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-117A	FTMM02-M2-B-117B	FTMM02-M2-B-117C	FTMM02-M2-B-117D
Sample ID					FTMM02-SS-M2-B-117A-7.5-7.5	FTMM02-SS-M2-B-117B-7.5-7.5	FTMM02-SS-M2-B-117C-7.5-7.5	FTMM02-SS-M2-B-117D-7.5-7.5
Sample Date					11/10/1999	11/10/1999	11/30/1999	12/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-117E	FTMM02-M2-B-117F		FTMM02-M2-B-117G
Sample ID					FTMM02-SS-M2-B-117E-7.5-7.5	FTMM02-SS-M2-B-117F-2.5-3	FTMM02-SS-M2-B-117F-6-6.5	FTMM02-SS-M2-B-117G-1.5-2
Sample Date					12/3/1999	1/3/2000	1/3/2000	1/4/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**310**	**590**	**680**	**1,300**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	**4,900**	**4,500**	**1,500**
Methylene chloride	35,000	320,000	2.7	-	**5,000**	**670**	**370 J**	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-117E	FTMM02-M2-B-117F		FTMM02-M2-B-117G
Sample ID					FTMM02-SS-M2-B-117E-7.5-7.5	FTMM02-SS-M2-B-117F-2.5-3	FTMM02-SS-M2-B-117F-6-6.5	FTMM02-SS-M2-B-117G-1.5-2
Sample Date					12/3/1999	1/3/2000	1/3/2000	1/4/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-117G	FTMM02-M2-B-117H		
Sample ID					FTMM02-SS-M2-B-117G-6-6.5	FTMM02-SS-M2-B-117H-2-2.5	FTMM02-SS-M2-B-117H-4.5-5	FTMM02-SS-M2-B-117H-5-5.5
Sample Date					1/4/2000	1/5/2000	1/5/2000	1/5/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	**2,600**	**3,300**	**10,000**	**3,300**
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	**990**	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**1,600**	**440**	**1,300**	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**1,600**	**1,500**	**4,500**	**1,800**
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-117G	FTMM02-M2-B-117H		
Sample ID					FTMM02-SS-M2-B-117G-6-6.5	FTMM02-SS-M2-B-117H-2-2.5	FTMM02-SS-M2-B-117H-4.5-5	FTMM02-SS-M2-B-117H-5-5.5
Sample Date					1/4/2000	1/5/2000	1/5/2000	1/5/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-117I	FTMM02-M2-B-118		FTMM02-M2-B-118B
Sample ID					FTMM02-SS-M2-B-117I-4.5-5	FTMM02-SS-M2-B-118-4.5-4.5	FTMM02-SS-M2-B-118-5-5-Dup	FTMM02-SS-M2-B-118B-7.5-7.5
Sample Date					1/6/2000	5/6/1999	5/6/1999	11/10/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	**5,900**	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**620**	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**1,300**	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-117I	FTMM02-M2-B-118		FTMM02-M2-B-118B
Sample ID					FTMM02-SS-M2-B-117I-4.5-5	FTMM02-SS-M2-B-118-4.5-4.5	FTMM02-SS-M2-B-118-5-5-Dup	FTMM02-SS-M2-B-118B-7.5-7.5
Sample Date					1/6/2000	5/6/1999	5/6/1999	11/10/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**		FTMM02-M2-B-118C	FTMM02-M2-B-118D	FTMM02-M2-B-118E
Sample ID					FTMM02-SS-M2-B-118B-7.5-7.5-Dup	FTMM02-SS-M2-B-118C-7.5-7.5	FTMM02-SS-M2-B-118D-7.5-7.5	FTMM02-SS-M2-B-118E-7.5-7.5
Sample Date					11/10/1999	11/30/1999	12/2/1999	12/3/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	**290**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	**1,200**
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**		FTMM02-M2-B-118C	FTMM02-M2-B-118D	FTMM02-M2-B-118E
Sample ID					FTMM02-SS-M2-B-118B-7.5-7.5-Dup	FTMM02-SS-M2-B-118C-7.5-7.5	FTMM02-SS-M2-B-118D-7.5-7.5	FTMM02-SS-M2-B-118E-7.5-7.5
Sample Date					11/10/1999	11/30/1999	12/2/1999	12/3/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-118F		FTMM02-M2-B-118G	
Sample ID					FTMM02-SS-M2-B-118F-3-3.5	FTMM02-SS-M2-B-118F-5-5.5	FTMM02-SS-M2-B-118G-2.5-3	FTMM02-SS-M2-B-118G-3.5-4
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/4/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	**2,500**
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**670**	**740**	**1,900**	**1,600**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**4,700**	**4,500**	ND	**1,500**
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-118F		FTMM02-M2-B-118G	
Sample ID					FTMM02-SS-M2-B-118F-3-3.5	FTMM02-SS-M2-B-118F-5-5.5	FTMM02-SS-M2-B-118G-2.5-3	FTMM02-SS-M2-B-118G-3.5-4
Sample Date					1/3/2000	1/3/2000	1/4/2000	1/4/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-118H		FTMM02-M2-B-118I	FTMM02-M2-B-119C
Sample ID					FTMM02-SS-M2-B-118H-1.5-2	FTMM02-SS-M2-B-118H-3-3.5	FTMM02-SS-M2-B-118I-4.5-5	FTMM02-SS-M2-B-119C-7.5-7.5
Sample Date					1/5/2000	1/5/2000	1/6/2000	11/30/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	**4,200**	**5,300**	**2,700**	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**420**	**520**	**550**	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**1,800**	**2,400**	**1,400**	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-118H		FTMM02-M2-B-118I	FTMM02-M2-B-119C
Sample ID					FTMM02-SS-M2-B-118H-1.5-2	FTMM02-SS-M2-B-118H-3-3.5	FTMM02-SS-M2-B-118I-4.5-5	FTMM02-SS-M2-B-119C-7.5-7.5
Sample Date					1/5/2000	1/5/2000	1/6/2000	11/30/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11A
Sample ID					FTMM02-SS-M2-B-11A-0-0.5
Sample Date					10/27/1999
Volatile Organic Compounds (µg/kg)					
Acetone	6,100,000	67,000,000	290	-	NA
Benzene	1,200	5,100	0.23	-	NA
Carbon disulfide	77,000	350,000	24	-	NA
Chlorobenzene	28,000	130,000	5.3	-	NA
Chloroform	320	1,400	0.061	-	NA
Ethyl benzene	5,800	25,000	1.7	-	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA
Methylene chloride	35,000	320,000	2.7	-	NA
Toluene	490,000	4,700,000	76	-	NA
Total Xylenes	58,000	250,000	19	-	NA
TIC VOCs (µg/kg)					
Total TIC, Volatile	NLE	NLE	NLE	-	NA
Semivolatile Organic Compounds (µg/kg)					
2-Methylnaphthalene	23,000	300,000	19	-	NA
Acenaphthene	350,000	4,500,000	550	-	NA
Acenaphthylene	NLE	NLE	NLE	-	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA
Azobenzene	5,600	26,000	0.92	-	NA
Benzo(a)anthracene	150	2,900	12	-	NA
Benzo(a)pyrene	15	290	4	-	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA
Chrysene	15,000	290,000	1,200	-	NA
Dibenz(a,h)anthracene	15	290	13	-	NA
Dibenzofuran	7,200	100,000	15	-	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA
Fluorene	230,000	3,000,000	540	-	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA
Naphthalene	3,800	17,000	0.54	-	NA
Phenanthrene	NLE	NLE	NLE	-	NA
Pyrene	170,000	2,300,000	1,300	-	NA
TIC SVOCs (µg/kg)					
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11A
Sample ID					FTMM02-SS-M2-B-11A-0-0.5
Sample Date					10/27/1999
Pesticides & PCBs (mg/kg)					
4,4'-DDD	2.2	9.6	0.0072	-	NA
4,4'-DDE	1.6	6.8	0.054	-	NA
4,4'-DDT	1.9	8.6	0.077	-	NA
Alpha-Chlordane	1.8	8	0.015	-	NA
Dieldrin	0.033	0.14	0.000069	-	NA
Endrin	1.8	25	0.0092	-	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA
Gamma-Chlordane	1.8	8	0.015	-	NA
Pesticides & PCBs (mg/kg)					
Aroclor-1016	0.4	5.2	0.013	-	ND
Aroclor-1242	0.24	1	0.0061	-	ND
Aroclor-1248	0.24	1	0.006	-	NA
Aroclor-1254	0.11	1	0.01	-	**0.513**
Aroclor-1260	0.24	1	0.027	-	ND
PCB (total)	0.24	1	0.03	-	**0.513**
Inorganics (mg/kg)					
Aluminum	7,700	110,000	3,000	15,200	NA
Antimony	3.1	47	0.035	ND	NA
Arsenic	0.67	3	0.0015	22.9	NA
Barium	1,500	22,000	16	32.3	NA
Beryllium	16	230	1.9	2	NA
Cadmium	7	98	0.069	ND	NA
Calcium	NLE	NLE	NLE	921	NA
Chromium	12,000	180,000	4,000,000	269	NA
Cobalt	2.3	35	0.027	2.5	NA
Copper	310	4,700	2.8	8	NA
Iron	5,500	82,000	35	55,800	NA
Lead	400	800	NLE	19.5	NA
Magnesium	NLE	NLE	NLE	7,230	NA
Manganese	180	2,600	2.8	90.7	NA
Mercury	2.3	35	0.0033	ND	NA
Nickel	150	2,200	2.6	8.4	NA
Potassium	NLE	NLE	NLE	15,400	NA
Selenium	39	580	0.052	1.9	NA
Silver	39	580	0.08	1.1	NA
Sodium	NLE	NLE	NLE	51.6	NA
Thallium	0.078	1.2	0.0014	ND	NA
Vanadium	39	580	8.6	94.1	NA
Zinc	2,300	35,000	37	81.4	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11A			
Sample ID					FTMM02-SS-M2-B-11A-1-1.5	FTMM02-SS-M2-B-11A-2-2.5	FTMM02-SS-M2-B-11A-3-3.5	FTMM02-SS-M2-B-11A-4-4.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11A			
Sample ID					FTMM02-SS-M2-B-11A-1-1.5	FTMM02-SS-M2-B-11A-2-2.5	FTMM02-SS-M2-B-11A-3-3.5	FTMM02-SS-M2-B-11A-4-4.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	**0.745**	ND
Aroclor-1242	0.24	1	0.0061	-	ND	**27.424**	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	**0.657**	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	**0.532**	ND
PCB (total)	0.24	1	0.03	-	**0.657**	**27.424**	**1.277**	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11A			
Sample ID					FTMM02-SS-M2-B-11A-5-5.5	FTMM02-SS-M2-B-11A-6-6.5	FTMM02-SS-M2-B-11A-7-7.5	FTMM02-SS-M2-B-11A-8-8.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11A			
Sample ID					FTMM02-SS-M2-B-11A-5-5.5	FTMM02-SS-M2-B-11A-6-6.5	FTMM02-SS-M2-B-11A-7-7.5	FTMM02-SS-M2-B-11A-8-8.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	**5.526**	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**5.526**	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11B			
Sample ID					FTMM02-SS-M2-B-11B-0-0.5	FTMM02-SS-M2-B-11B-1-1.5	FTMM02-SS-M2-B-11B-2-2.5	FTMM02-SS-M2-B-11B-3-3.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11B			
Sample ID					FTMM02-SS-M2-B-11B-0-0.5	FTMM02-SS-M2-B-11B-1-1.5	FTMM02-SS-M2-B-11B-2-2.5	FTMM02-SS-M2-B-11B-3-3.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	**1.482**	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	**1.482**	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11B			
Sample ID					FTMM02-SS-M2-B-11B-4-4.5	FTMM02-SS-M2-B-11B-5-5.5	FTMM02-SS-M2-B-11B-6-6.5	FTMM02-SS-M2-B-11B-7-7.5
Sample Date					1/24/2000	1/24/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11B			
Sample ID					FTMM02-SS-M2-B-11B-4-4.5	FTMM02-SS-M2-B-11B-5-5.5	FTMM02-SS-M2-B-11B-6-6.5	FTMM02-SS-M2-B-11B-7-7.5
Sample Date					1/24/2000	1/24/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	**1.277**	**1.646**	**0.323**	**0.582**
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**1.277**	**1.646**	**0.323**	**0.582**
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11B		FTMM02-M2-B-11C	
Sample ID					FTMM02-SS-M2-B-11B-8-8.5	FTMM02-SS-M2-B-11B-9-9.5	FTMM02-SS-M2-B-11C-0-0.5	FTMM02-SS-M2-B-11C-1-1.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11B		FTMM02-M2-B-11C	
Sample ID					FTMM02-SS-M2-B-11B-8-8.5	FTMM02-SS-M2-B-11B-9-9.5	FTMM02-SS-M2-B-11C-0-0.5	FTMM02-SS-M2-B-11C-1-1.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11C			
Sample ID					FTMM02-SS-M2-B-11C-2-2.5	FTMM02-SS-M2-B-11C-3-3.5	FTMM02-SS-M2-B-11C-4-4.5	FTMM02-SS-M2-B-11C-5-5.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11C			
Sample ID					FTMM02-SS-M2-B-11C-2-2.5	FTMM02-SS-M2-B-11C-3-3.5	FTMM02-SS-M2-B-11C-4-4.5	FTMM02-SS-M2-B-11C-5-5.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	**4.06**	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	**4.06**	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11C			
Sample ID					FTMM02-SS-M2-B-11C-6-6.5	FTMM02-SS-M2-B-11C-7-7.5	FTMM02-SS-M2-B-11C-8-8.5	FTMM02-SS-M2-B-11C-9-9.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11C			
Sample ID					FTMM02-SS-M2-B-11C-6-6.5	FTMM02-SS-M2-B-11C-7-7.5	FTMM02-SS-M2-B-11C-8-8.5	FTMM02-SS-M2-B-11C-9-9.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	**0.978**	**0.301**	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**0.978**	**0.301**	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-0-0.5	FTMM02-SS-M2-B-11D-10.2-10.7	FTMM02-SS-M2-B-11D-11.2-11.7	FTMM02-SS-M2-B-11D-1-1.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-0-0.5	FTMM02-SS-M2-B-11D-10.2-10.7	FTMM02-SS-M2-B-11D-11.2-11.7	FTMM02-SS-M2-B-11D-1-1.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-12-12.5	FTMM02-SS-M2-B-11D-2-2.5	FTMM02-SS-M2-B-11D-3-3.5	FTMM02-SS-M2-B-11D-4-4.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-12-12.5	FTMM02-SS-M2-B-11D-2-2.5	FTMM02-SS-M2-B-11D-3-3.5	FTMM02-SS-M2-B-11D-4-4.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	**6.352**	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	**6.352**	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-5-5.5	FTMM02-SS-M2-B-11D-6-6.5	FTMM02-SS-M2-B-11D-7-7.5	FTMM02-SS-M2-B-11D-8-8.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11D			
Sample ID					FTMM02-SS-M2-B-11D-5-5.5	FTMM02-SS-M2-B-11D-6-6.5	FTMM02-SS-M2-B-11D-7-7.5	FTMM02-SS-M2-B-11D-8-8.5
Sample Date					3/8/2000	3/8/2000	3/8/2000	3/8/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	**9.339**	**17.262**	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**9.339**	**17.262**	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11D	FTMM02-M2-B-11E		
Sample ID					FTMM02-SS-M2-B-11D-9-9.5	FTMM02-SS-M2-B-11E-0-0.5	FTMM02-SS-M2-B-11E-1-1.5	FTMM02-SS-M2-B-11E-2-2.5
Sample Date					3/8/2000	3/16/2000	3/16/2000	3/16/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11D	FTMM02-M2-B-11E		
Sample ID					FTMM02-SS-M2-B-11D-9-9.5	FTMM02-SS-M2-B-11E-0-0.5	FTMM02-SS-M2-B-11E-1-1.5	FTMM02-SS-M2-B-11E-2-2.5
Sample Date					3/8/2000	3/16/2000	3/16/2000	3/16/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	**1.017**	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	**1.017**	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11E			
Sample ID					FTMM02-SS-M2-B-11E-3-3.5	FTMM02-SS-M2-B-11E-4-4.5	FTMM02-SS-M2-B-11E-5-5.5	FTMM02-SS-M2-B-11E-6-6.5
Sample Date					3/16/2000	3/16/2000	3/16/2000	3/16/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11E			
Sample ID					FTMM02-SS-M2-B-11E-3-3.5	FTMM02-SS-M2-B-11E-4-4.5	FTMM02-SS-M2-B-11E-5-5.5	FTMM02-SS-M2-B-11E-6-6.5
Sample Date					3/16/2000	3/16/2000	3/16/2000	3/16/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	**187.444**	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	**187.444**	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11E			FTMM02-M2-B-11F
Sample ID					FTMM02-SS-M2-B-11E-7-7.5	FTMM02-SS-M2-B-11E-8-8.5	FTMM02-SS-M2-B-11E-9-9.5	FTMM02-SS-M2-B-11F-0-0.5
Sample Date					3/16/2000	3/16/2000	3/16/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11E			FTMM02-M2-B-11F
Sample ID					FTMM02-SS-M2-B-11E-7-7.5	FTMM02-SS-M2-B-11E-8-8.5	FTMM02-SS-M2-B-11E-9-9.5	FTMM02-SS-M2-B-11F-0-0.5
Sample Date					3/16/2000	3/16/2000	3/16/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11F			
Sample ID					FTMM02-SS-M2-B-11F-1-1.5	FTMM02-SS-M2-B-11F-2-2.5	FTMM02-SS-M2-B-11F-3-3.5	FTMM02-SS-M2-B-11F-4-4.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11F			
Sample ID					FTMM02-SS-M2-B-11F-1-1.5	FTMM02-SS-M2-B-11F-2-2.5	FTMM02-SS-M2-B-11F-3-3.5	FTMM02-SS-M2-B-11F-4-4.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11F			
Sample ID					FTMM02-SS-M2-B-11F-5-5.5	FTMM02-SS-M2-B-11F-6-6.5	FTMM02-SS-M2-B-11F-7-7.5	FTMM02-SS-M2-B-11F-8-8.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11F			
Sample ID					FTMM02-SS-M2-B-11F-5-5.5	FTMM02-SS-M2-B-11F-6-6.5	FTMM02-SS-M2-B-11F-7-7.5	FTMM02-SS-M2-B-11F-8-8.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-11F	FTMM02-M2-B-12			
Sample ID					FTMM02-SS-M2-B-11F-9-9.5	FTMM02-SS-M2-B-12-0-0.5	FTMM02-SS-M2-B-12-1-1.5	FTMM02-SS-M2-B-12-2-2.5	FTMM02-SS-M2-B-12-3-3.5
Sample Date					3/22/2000	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-11F	FTMM02-M2-B-12			
Sample ID					FTMM02-SS-M2-B-11F-9-9.5	FTMM02-SS-M2-B-12-0-0.5	FTMM02-SS-M2-B-12-1-1.5	FTMM02-SS-M2-B-12-2-2.5	FTMM02-SS-M2-B-12-3-3.5
Sample Date					3/22/2000	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	**0.079**	**0.195**	**0.272**	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	**0.036**	**0.06**	**0.059**	ND
PCB (total)	0.24	1	0.03	-	ND	**0.115**	**0.255**	**0.331**	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12		FTMM02-M2-B-12A	
Sample ID					FTMM02-SS-M2-B-12-4-4.5	FTMM02-SS-M2-B-12-5-5.5	FTMM02-SS-M2-B-12A-0-0.5	FTMM02-SS-M2-B-12A-1-1.5
Sample Date					2/22/1999	2/22/1999	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12		FTMM02-M2-B-12A	
Sample ID					FTMM02-SS-M2-B-12-4-4.5	FTMM02-SS-M2-B-12-5-5.5	FTMM02-SS-M2-B-12A-0-0.5	FTMM02-SS-M2-B-12A-1-1.5
Sample Date					2/22/1999	2/22/1999	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	**5.596**
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	**5.596**
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-12A			
Sample ID					FTMM02-SS-M2-B-12A-2-2.5	FTMM02-SS-M2-B-12A-3-3.5	FTMM02-SS-M2-B-12A-4-4.5	FTMM02-SS-M2-B-12A-5-5.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-12A			
Sample ID					FTMM02-SS-M2-B-12A-2-2.5	FTMM02-SS-M2-B-12A-3-3.5	FTMM02-SS-M2-B-12A-4-4.5	FTMM02-SS-M2-B-12A-5-5.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12B			
Sample ID					FTMM02-SS-M2-B-12B-0-0.5	FTMM02-SS-M2-B-12B-1-1.5	FTMM02-SS-M2-B-12B-2-2.5	FTMM02-SS-M2-B-12B-3-3.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-12B			
Sample ID					FTMM02-SS-M2-B-12B-0-0.5	FTMM02-SS-M2-B-12B-1-1.5	FTMM02-SS-M2-B-12B-2-2.5	FTMM02-SS-M2-B-12B-3-3.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12B		FTMM02-M2-B-12C	
Sample ID					FTMM02-SS-M2-B-12B-4-4.5	FTMM02-SS-M2-B-12B-5-5.5	FTMM02-SS-M2-B-12C-0-0.5	FTMM02-SS-M2-B-12C-1-1.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12B		FTMM02-M2-B-12C	
Sample ID					FTMM02-SS-M2-B-12B-4-4.5	FTMM02-SS-M2-B-12B-5-5.5	FTMM02-SS-M2-B-12C-0-0.5	FTMM02-SS-M2-B-12C-1-1.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12C			
Sample ID					FTMM02-SS-M2-B-12C-2-2.5	FTMM02-SS-M2-B-12C-3-3.5	FTMM02-SS-M2-B-12C-4-4.5	FTMM02-SS-M2-B-12C-5-5.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-12C			
Sample ID					FTMM02-SS-M2-B-12C-2-2.5	FTMM02-SS-M2-B-12C-3-3.5	FTMM02-SS-M2-B-12C-4-4.5	FTMM02-SS-M2-B-12C-5-5.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12D			
Sample ID					FTMM02-SS-M2-B-12D-0-0.5	FTMM02-SS-M2-B-12D-1-1.5	FTMM02-SS-M2-B-12D-2-2.5	FTMM02-SS-M2-B-12D-3-3.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12D			
Sample ID					FTMM02-SS-M2-B-12D-0-0.5	FTMM02-SS-M2-B-12D-1-1.5	FTMM02-SS-M2-B-12D-2-2.5	FTMM02-SS-M2-B-12D-3-3.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12D			
Sample ID					FTMM02-SS-M2-B-12D-4-4.5	FTMM02-SS-M2-B-12D-5-5.5	FTMM02-SS-M2-B-12D-6-6.5	FTMM02-SS-M2-B-12D-7-7.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12D			
Sample ID					FTMM02-SS-M2-B-12D-4-4.5	FTMM02-SS-M2-B-12D-5-5.5	FTMM02-SS-M2-B-12D-6-6.5	FTMM02-SS-M2-B-12D-7-7.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12D		FTMM02-M2-B-12E	
Sample ID					FTMM02-SS-M2-B-12D-8-8.5	FTMM02-SS-M2-B-12D-9-9.5	FTMM02-SS-M2-B-12E-0-0.5	FTMM02-SS-M2-B-12E-1-1.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12D		FTMM02-M2-B-12E	
Sample ID					FTMM02-SS-M2-B-12D-8-8.5	FTMM02-SS-M2-B-12D-9-9.5	FTMM02-SS-M2-B-12E-0-0.5	FTMM02-SS-M2-B-12E-1-1.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12E			
Sample ID					FTMM02-SS-M2-B-12E-2-2.5	FTMM02-SS-M2-B-12E-3-3.5	FTMM02-SS-M2-B-12E-4-4.5	FTMM02-SS-M2-B-12E-5-5.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12E			
Sample ID					FTMM02-SS-M2-B-12E-2-2.5	FTMM02-SS-M2-B-12E-3-3.5	FTMM02-SS-M2-B-12E-4-4.5	FTMM02-SS-M2-B-12E-5-5.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12E			
Sample ID					FTMM02-SS-M2-B-12E-6-6.5	FTMM02-SS-M2-B-12E-7-7.5	FTMM02-SS-M2-B-12E-8-8.5	FTMM02-SS-M2-B-12E-9-9.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-12E			
Sample ID					FTMM02-SS-M2-B-12E-6-6.5	FTMM02-SS-M2-B-12E-7-7.5	FTMM02-SS-M2-B-12E-8-8.5	FTMM02-SS-M2-B-12E-9-9.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	**9.961**
Aroclor-1260	0.24	1	0.027	-	ND	ND	**2.315**	ND
PCB (total)	0.24	1	0.03	-	ND	ND	**2.315**	**9.961**
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12F			
Sample ID					FTMM02-SS-M2-B-12F-0-0.5	FTMM02-SS-M2-B-12F-1-1.5	FTMM02-SS-M2-B-12F-2-2.5	FTMM02-SS-M2-B-12F-3-3.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12F			
Sample ID					FTMM02-SS-M2-B-12F-0-0.5	FTMM02-SS-M2-B-12F-1-1.5	FTMM02-SS-M2-B-12F-2-2.5	FTMM02-SS-M2-B-12F-3-3.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	**1.167**	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**1.167**	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12F			
Sample ID					FTMM02-SS-M2-B-12F-4-4.5	FTMM02-SS-M2-B-12F-5-5.5	FTMM02-SS-M2-B-12F-6-6.5	FTMM02-SS-M2-B-12F-7-7.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12F			
Sample ID					FTMM02-SS-M2-B-12F-4-4.5	FTMM02-SS-M2-B-12F-5-5.5	FTMM02-SS-M2-B-12F-6-6.5	FTMM02-SS-M2-B-12F-7-7.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12F		FTMM02-M2-B-12G	
Sample ID					FTMM02-SS-M2-B-12F-8-8.5	FTMM02-SS-M2-B-12F-9-9.5	FTMM02-SS-M2-B-12G-0-0.5	FTMM02-SS-M2-B-12G-1-1.5
Sample Date					2/7/2000	2/7/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12F		FTMM02-M2-B-12G	
Sample ID					FTMM02-SS-M2-B-12F-8-8.5	FTMM02-SS-M2-B-12F-9-9.5	FTMM02-SS-M2-B-12G-0-0.5	FTMM02-SS-M2-B-12G-1-1.5
Sample Date					2/7/2000	2/7/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	**1.985**	ND	**0.556**	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**1.985**	ND	**0.556**	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12G	
Sample ID					FTMM02-SS-M2-B-12G-2-2.5	FTMM02-SS-M2-B-12G-3-3.5
Sample Date					3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)						
Acetone	6,100,000	67,000,000	290	-	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA
TIC VOCs (µg/kg)						
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA
Semivolatile Organic Compounds (µg/kg)						
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA
TIC SVOCs (µg/kg)						
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12G	
Sample ID					FTMM02-SS-M2-B-12G-2-2.5	FTMM02-SS-M2-B-12G-3-3.5
Sample Date					3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)						
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA
Pesticides & PCBs (mg/kg)						
Aroclor-1016	0.4	5.2	0.013	-	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND
Inorganics (mg/kg)						
Aluminum	7,700	110,000	3,000	15,200	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA
Beryllium	16	230	1.9	2	NA	NA
Cadmium	7	98	0.069	ND	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA
Copper	310	4,700	2.8	8	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA
Lead	400	800	NLE	19.5	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA
Selenium	39	580	0.052	1.9	NA	NA
Silver	39	580	0.08	1.1	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12G			
Sample ID					FTMM02-SS-M2-B-12G-4-4.5	FTMM02-SS-M2-B-12G-5-5.5	FTMM02-SS-M2-B-12G-6-6.5	FTMM02-SS-M2-B-12G-7-7.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-12G			
Sample ID					FTMM02-SS-M2-B-12G-4-4.5	FTMM02-SS-M2-B-12G-5-5.5	FTMM02-SS-M2-B-12G-6-6.5	FTMM02-SS-M2-B-12G-7-7.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-12G		FTMM02-M2-B-12H	
Sample ID					FTMM02-SS-M2-B-12G-8-8.5	FTMM02-SS-M2-B-12G-9-9.5	FTMM02-SS-M2-B-12H-0-0.5	FTMM02-SS-M2-B-12H-1-1.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12G		FTMM02-M2-B-12H	
Sample ID					FTMM02-SS-M2-B-12G-8-8.5	FTMM02-SS-M2-B-12G-9-9.5	FTMM02-SS-M2-B-12H-0-0.5	FTMM02-SS-M2-B-12H-1-1.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	**0.496**	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	**0.496**	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12H			
Sample ID					FTMM02-SS-M2-B-12H-2-2.5	FTMM02-SS-M2-B-12H-3-3.5	FTMM02-SS-M2-B-12H-4-4.5	FTMM02-SS-M2-B-12H-5-5.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12H			
Sample ID					FTMM02-SS-M2-B-12H-2-2.5	FTMM02-SS-M2-B-12H-3-3.5	FTMM02-SS-M2-B-12H-4-4.5	FTMM02-SS-M2-B-12H-5-5.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	**1.533**	**1.885**
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	**1.533**	**1.885**
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-12H			
Sample ID					FTMM02-SS-M2-B-12H-6-6.5	FTMM02-SS-M2-B-12H-7-7.5	FTMM02-SS-M2-B-12H-8-8.5	FTMM02-SS-M2-B-12H-9-9.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-12H			
Sample ID					FTMM02-SS-M2-B-12H-6-6.5	FTMM02-SS-M2-B-12H-7-7.5	FTMM02-SS-M2-B-12H-8-8.5	FTMM02-SS-M2-B-12H-9-9.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-12I			
Sample ID					FTMM02-SS-M2-B-12I-0-0.5	FTMM02-SS-M2-B-12I-1-1.5	FTMM02-SS-M2-B-12I-2-2.5	FTMM02-SS-M2-B-12I-3-3.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12I			
Sample ID					FTMM02-SS-M2-B-12I-0-0.5	FTMM02-SS-M2-B-12I-1-1.5	FTMM02-SS-M2-B-12I-2-2.5	FTMM02-SS-M2-B-12I-3-3.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	**6.697**	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**6.697**	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12I			
Sample ID					FTMM02-SS-M2-B-12I-4-4.5	FTMM02-SS-M2-B-12I-5-5.5	FTMM02-SS-M2-B-12I-6-6.5	FTMM02-SS-M2-B-12I-7-7.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-12I			
Sample ID					FTMM02-SS-M2-B-12I-4-4.5	FTMM02-SS-M2-B-12I-5-5.5	FTMM02-SS-M2-B-12I-6-6.5	FTMM02-SS-M2-B-12I-7-7.5
Sample Date					3/22/2000	3/22/2000	3/22/2000	3/22/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12I		FTMM02-M2-B-13	
Sample ID					FTMM02-SS-M2-B-12I-8-8.5	FTMM02-SS-M2-B-12I-9-9.5	FTMM02-SS-M2-B-13-0-0.5	FTMM02-SS-M2-B-13-1-1.5
Sample Date					3/22/2000	3/22/2000	2/23/1999	2/23/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-12I		FTMM02-M2-B-13	
Sample ID					FTMM02-SS-M2-B-12I-8-8.5	FTMM02-SS-M2-B-12I-9-9.5	FTMM02-SS-M2-B-13-0-0.5	FTMM02-SS-M2-B-13-1-1.5
Sample Date					3/22/2000	3/22/2000	2/23/1999	2/23/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-13				
Sample ID					FTMM02-SS-M2-B-13-2-2.5	FTMM02-SS-M2-B-13-3-3.5	FTMM02-SS-M2-B-13-4-4.5	FTMM02-SS-M2-B-13-5-5.5	FTMM02-SS-M2-B-13-6-6.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-13				
Sample ID					FTMM02-SS-M2-B-13-2-2.5	FTMM02-SS-M2-B-13-3-3.5	FTMM02-SS-M2-B-13-4-4.5	FTMM02-SS-M2-B-13-5-5.5	FTMM02-SS-M2-B-13-6-6.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	**0.915**	**3.17**	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	**1.491**	ND
PCB (total)	0.24	1	0.03	-	ND	ND	**0.915**	**4.661**	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-13			FTMM02-M2-B-14	
Sample ID					FTMM02-SS-M2-B-13-7-7.5	FTMM02-SS-M2-B-13-8-8.5	FTMM02-SS-M2-B-13-9-9.5	FTMM02-SS-M2-B-14-0-0.5	FTMM02-SS-M2-B-14-1-1.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	2/23/1999	2/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-13			FTMM02-M2-B-14	
Sample ID					FTMM02-SS-M2-B-13-7-7.5	FTMM02-SS-M2-B-13-8-8.5	FTMM02-SS-M2-B-13-9-9.5	FTMM02-SS-M2-B-14-0-0.5	FTMM02-SS-M2-B-14-1-1.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	2/23/1999	2/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	**0.236**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	**0.102**	**0.072**
PCB (total)	0.24	1	0.03	-	ND	ND	ND	**0.102**	**0.308**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-14				FTMM02-M2-B-15
Sample ID					FTMM02-SS-M2-B-14-2-2.5	FTMM02-SS-M2-B-14-3-3.5	FTMM02-SS-M2-B-14-4-4.5	FTMM02-SS-M2-B-14-5-5.5	FTMM02-SS-M2-B-15-0-0.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-14				FTMM02-M2-B-15
Sample ID					FTMM02-SS-M2-B-14-2-2.5	FTMM02-SS-M2-B-14-3-3.5	FTMM02-SS-M2-B-14-4-4.5	FTMM02-SS-M2-B-14-5-5.5	FTMM02-SS-M2-B-15-0-0.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	**0.402**	**0.083**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	**0.062**	**0.089**
PCB (total)	0.24	1	0.03	-	ND	ND	ND	**0.464**	**0.172**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-15				
Sample ID					FTMM02-SS-M2-B-15-1-1.5	FTMM02-SS-M2-B-15-2-2.5	FTMM02-SS-M2-B-15-3-3.5	FTMM02-SS-M2-B-15-4-4.5	FTMM02-SS-M2-B-15-5-5.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-15				
Sample ID					FTMM02-SS-M2-B-15-1-1.5	FTMM02-SS-M2-B-15-2-2.5	FTMM02-SS-M2-B-15-3-3.5	FTMM02-SS-M2-B-15-4-4.5	FTMM02-SS-M2-B-15-5-5.5
Sample Date					2/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	**0.14**	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.058**	ND	ND	ND	**0.134**
PCB (total)	0.24	1	0.03	-	**0.198**	ND	ND	ND	**0.134**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-15A			
Sample ID					FTMM02-SS-M2-B-15A-0-0.5	FTMM02-SS-M2-B-15A-1-1.5	FTMM02-SS-M2-B-15A-2-2.5	FTMM02-SS-M2-B-15A-3-3.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-15A			
Sample ID					FTMM02-SS-M2-B-15A-0-0.5	FTMM02-SS-M2-B-15A-1-1.5	FTMM02-SS-M2-B-15A-2-2.5	FTMM02-SS-M2-B-15A-3-3.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-15A			
Sample ID					FTMM02-SS-M2-B-15A-4-4.5	FTMM02-SS-M2-B-15A-5-5.5	FTMM02-SS-M2-B-15A-6-6.5	FTMM02-SS-M2-B-15A-7-7.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-15A			
Sample ID					FTMM02-SS-M2-B-15A-4-4.5	FTMM02-SS-M2-B-15A-5-5.5	FTMM02-SS-M2-B-15A-6-6.5	FTMM02-SS-M2-B-15A-7-7.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	**42.494**
Aroclor-1260	0.24	1	0.027	-	ND	**0.667**	ND	ND
PCB (total)	0.24	1	0.03	-	ND	**0.667**	ND	**42.494**
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-15A	FTMM02-M2-B-15B		
Sample ID					FTMM02-SS-M2-B-15A-8-8.5	FTMM02-SS-M2-B-15B-0-0.5	FTMM02-SS-M2-B-15B-1-1.5	FTMM02-SS-M2-B-15B-2-2.5
Sample Date					10/27/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-15A	FTMM02-M2-B-15B		
Sample ID					FTMM02-SS-M2-B-15A-8-8.5	FTMM02-SS-M2-B-15B-0-0.5	FTMM02-SS-M2-B-15B-1-1.5	FTMM02-SS-M2-B-15B-2-2.5
Sample Date					10/27/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-15B			
Sample ID					FTMM02-SS-M2-B-15B-3-3.5	FTMM02-SS-M2-B-15B-4-4.5	FTMM02-SS-M2-B-15B-5-5.5	FTMM02-SS-M2-B-15B-6-6.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-15B			
Sample ID					FTMM02-SS-M2-B-15B-3-3.5	FTMM02-SS-M2-B-15B-4-4.5	FTMM02-SS-M2-B-15B-5-5.5	FTMM02-SS-M2-B-15B-6-6.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-15B	FTMM02-M2-B-16			
Sample ID					FTMM02-SS-M2-B-15B-7-7.5	FTMM02-SS-M2-B-16-0-0.5	FTMM02-SS-M2-B-16-1-1.5	FTMM02-SS-M2-B-16-2-2.5	FTMM02-SS-M2-B-16-3-3.5
Sample Date					11/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-15B	FTMM02-M2-B-16			
Sample ID					FTMM02-SS-M2-B-15B-7-7.5	FTMM02-SS-M2-B-16-0-0.5	FTMM02-SS-M2-B-16-1-1.5	FTMM02-SS-M2-B-16-2-2.5	FTMM02-SS-M2-B-16-3-3.5
Sample Date					11/23/1999	2/23/1999	2/23/1999	2/23/1999	2/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	**0.116**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	**0.054**
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	**0.17**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-16		FTMM02-M2-B-17		
Sample ID					FTMM02-SS-M2-B-16-4-4.5	FTMM02-SS-M2-B-16-5-5.5	FTMM02-SS-M2-B-17-0-0.5	FTMM02-SS-M2-B-17-1-1.5	FTMM02-SS-M2-B-17-2-2.5
Sample Date					2/23/1999	2/23/1999	3/1/1999	3/1/1999	3/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-16		FTMM02-M2-B-17		
Sample ID					FTMM02-SS-M2-B-16-4-4.5	FTMM02-SS-M2-B-16-5-5.5	FTMM02-SS-M2-B-17-0-0.5	FTMM02-SS-M2-B-17-1-1.5	FTMM02-SS-M2-B-17-2-2.5
Sample Date					2/23/1999	2/23/1999	3/1/1999	3/1/1999	3/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	**0.59**	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	**0.129**	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	**0.719**	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-17			FTMM02-M2-B-18	
Sample ID					FTMM02-SS-M2-B-17-3-3.5	FTMM02-SS-M2-B-17-4-4.5	FTMM02-SS-M2-B-17-5-5.5	FTMM02-SS-M2-B-18-0-0.5	FTMM02-SS-M2-B-18-1-1.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-17			FTMM02-M2-B-18	
Sample ID					FTMM02-SS-M2-B-17-3-3.5	FTMM02-SS-M2-B-17-4-4.5	FTMM02-SS-M2-B-17-5-5.5	FTMM02-SS-M2-B-18-0-0.5	FTMM02-SS-M2-B-18-1-1.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	**40.042**	**0.518**	**1.058**	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.867**	**0.041**	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**40.909**	**0.559**	**1.058**	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-18				
Sample ID					FTMM02-SS-M2-B-18-2-2.5	FTMM02-SS-M2-B-18-3-3.5	FTMM02-SS-M2-B-18-4-4.5	FTMM02-SS-M2-B-18-5-5.5	FTMM02-SS-M2-B-18-6-6.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-18				
Sample ID					FTMM02-SS-M2-B-18-2-2.5	FTMM02-SS-M2-B-18-3-3.5	FTMM02-SS-M2-B-18-4-4.5	FTMM02-SS-M2-B-18-5-5.5	FTMM02-SS-M2-B-18-6-6.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	**394.167**	**5.089**	**4.733**	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	**2.893**	**0.478**	**0.042**	ND
PCB (total)	0.24	1	0.03	-	ND	**397.06**	**5.567**	**4.775**	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-18			FTMM02-M2-B-18A
Sample ID					FTMM02-SS-M2-B-18-7-7.5	FTMM02-SS-M2-B-18-8-8.5	FTMM02-SS-M2-B-18-9-9.5	FTMM02-SS-M2-B-18A-0-0.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	11/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-18			FTMM02-M2-B-18A
Sample ID					FTMM02-SS-M2-B-18-7-7.5	FTMM02-SS-M2-B-18-8-8.5	FTMM02-SS-M2-B-18-9-9.5	FTMM02-SS-M2-B-18A-0-0.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	11/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-18A			
Sample ID					FTMM02-SS-M2-B-18A-1-1.5	FTMM02-SS-M2-B-18A-2-2.5	FTMM02-SS-M2-B-18A-3-3.5	FTMM02-SS-M2-B-18A-4-4.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-18A			
Sample ID					FTMM02-SS-M2-B-18A-1-1.5	FTMM02-SS-M2-B-18A-2-2.5	FTMM02-SS-M2-B-18A-3-3.5	FTMM02-SS-M2-B-18A-4-4.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-18A		FTMM02-M2-B-18B	
Sample ID					FTMM02-SS-M2-B-18A-5-5.5	FTMM02-SS-M2-B-18A-6-6.5	FTMM02-SS-M2-B-18B-0-0.5	FTMM02-SS-M2-B-18B-1-1.5
Sample Date					11/1/1999	11/1/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-18A		FTMM02-M2-B-18B	
Sample ID					FTMM02-SS-M2-B-18A-5-5.5	FTMM02-SS-M2-B-18A-6-6.5	FTMM02-SS-M2-B-18B-0-0.5	FTMM02-SS-M2-B-18B-1-1.5
Sample Date					11/1/1999	11/1/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-18B			
Sample ID					FTMM02-SS-M2-B-18B-2-2.5	FTMM02-SS-M2-B-18B-3-3.5	FTMM02-SS-M2-B-18B-4-4.5	FTMM02-SS-M2-B-18B-5-5.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-18B			
Sample ID					FTMM02-SS-M2-B-18B-2-2.5	FTMM02-SS-M2-B-18B-3-3.5	FTMM02-SS-M2-B-18B-4-4.5	FTMM02-SS-M2-B-18B-5-5.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-18B		FTMM02-M2-B-19	
Sample ID					FTMM02-SS-M2-B-18B-6-6.5	FTMM02-SS-M2-B-18B-7-7.5	FTMM02-SS-M2-B-19-0-0.5	FTMM02-SS-M2-B-19-1-1.5
Sample Date					11/23/1999	11/23/1999	3/1/1999	3/1/1999
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-18B		FTMM02-M2-B-19	
Sample ID					FTMM02-SS-M2-B-18B-6-6.5	FTMM02-SS-M2-B-18B-7-7.5	FTMM02-SS-M2-B-19-0-0.5	FTMM02-SS-M2-B-19-1-1.5
Sample Date					11/23/1999	11/23/1999	3/1/1999	3/1/1999
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-19				
Sample ID					FTMM02-SS-M2-B-19-2-2.5	FTMM02-SS-M2-B-19-3-3.5	FTMM02-SS-M2-B-19-4-4.5	FTMM02-SS-M2-B-19-5-5.5	FTMM02-SS-M2-B-19-6-6.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-19				
Sample ID					FTMM02-SS-M2-B-19-2-2.5	FTMM02-SS-M2-B-19-3-3.5	FTMM02-SS-M2-B-19-4-4.5	FTMM02-SS-M2-B-19-5-5.5	FTMM02-SS-M2-B-19-6-6.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	**1.892**	**4.111**	**24.754**	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	**0.104**	**0.918**	**0.558**	ND
PCB (total)	0.24	1	0.03	-	ND	**1.996**	**5.029**	**25.312**	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-19			FTMM02-M2-B-2	
Sample ID					FTMM02-SS-M2-B-19-7-7.5	FTMM02-SS-M2-B-19-8-8.5	FTMM02-SS-M2-B-19-9-9.5	FTMM02-SS-M2-B-2-0-0.5	FTMM02-SS-M2-B-2-1-1.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	2/17/1999	2/17/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-19			FTMM02-M2-B-2	
Sample ID					FTMM02-SS-M2-B-19-7-7.5	FTMM02-SS-M2-B-19-8-8.5	FTMM02-SS-M2-B-19-9-9.5	FTMM02-SS-M2-B-2-0-0.5	FTMM02-SS-M2-B-2-1-1.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	2/17/1999	2/17/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	**1.162**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	**0.11**
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	**1.272**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-2				FTMM02-M2-B-20
Sample ID					FTMM02-SS-M2-B-2-2-2.5	FTMM02-SS-M2-B-2-3-3.5	FTMM02-SS-M2-B-2-4-4.5	FTMM02-SS-M2-B-2-5-5.5	FTMM02-SS-M2-B-20-0-0.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	2/17/1999	3/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) [(1)]**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-2				FTMM02-M2-B-20
Sample ID					FTMM02-SS-M2-B-2-2-2.5	FTMM02-SS-M2-B-2-3-3.5	FTMM02-SS-M2-B-2-4-4.5	FTMM02-SS-M2-B-2-5-5.5	FTMM02-SS-M2-B-20-0-0.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	2/17/1999	3/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	**12.481**	**12.413**	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	**0.499**	**0.727**	ND	ND
PCB (total)	0.24	1	0.03	-	ND	**12.98**	**13.14**	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-20				
Sample ID					FTMM02-SS-M2-B-20-1-1.5	FTMM02-SS-M2-B-20-2-2.5	FTMM02-SS-M2-B-20-3-3.5	FTMM02-SS-M2-B-20-4-4.5	FTMM02-SS-M2-B-20-5-5.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-20				
Sample ID					FTMM02-SS-M2-B-20-1-1.5	FTMM02-SS-M2-B-20-2-2.5	FTMM02-SS-M2-B-20-3-3.5	FTMM02-SS-M2-B-20-4-4.5	FTMM02-SS-M2-B-20-5-5.5
Sample Date					3/1/1999	3/1/1999	3/1/1999	3/1/1999	3/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	**0.264**	**0.58**
Aroclor-1260	0.24	1	0.027	-	**0.009**	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**0.009**	ND	ND	**0.264**	**0.58**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-21				
Sample ID					FTMM02-SS-M2-B-21-0-0.5	FTMM02-SS-M2-B-21-1-1.5	FTMM02-SS-M2-B-21-2-2.5	FTMM02-SS-M2-B-21-3-3.5	FTMM02-SS-M2-B-21-4-4.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-21				
Sample ID					FTMM02-SS-M2-B-21-0-0.5	FTMM02-SS-M2-B-21-1-1.5	FTMM02-SS-M2-B-21-2-2.5	FTMM02-SS-M2-B-21-3-3.5	FTMM02-SS-M2-B-21-4-4.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	**0.039**	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	**0.039**	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-21				
Sample ID					FTMM02-SS-M2-B-21-5-5.5	FTMM02-SS-M2-B-21-6-6.5	FTMM02-SS-M2-B-21-7-7.5	FTMM02-SS-M2-B-21-8-8.5	FTMM02-SS-M2-B-21-9-9.5
Sample Date					3/2/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-21				
Sample ID					FTMM02-SS-M2-B-21-5-5.5	FTMM02-SS-M2-B-21-6-6.5	FTMM02-SS-M2-B-21-7-7.5	FTMM02-SS-M2-B-21-8-8.5	FTMM02-SS-M2-B-21-9-9.5
Sample Date					3/2/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	**21.553**	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.843**	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**22.396**	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-21A				
Sample ID					FTMM02-SS-M2-B-21A-0-0.5	FTMM02-SS-M2-B-21A-1-1.5	FTMM02-SS-M2-B-21A-2-2.5	FTMM02-SS-M2-B-21A-3-3.5	FTMM02-SS-M2-B-21A-4-4.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-21A				
Sample ID					FTMM02-SS-M2-B-21A-0-0.5	FTMM02-SS-M2-B-21A-1-1.5	FTMM02-SS-M2-B-21A-2-2.5	FTMM02-SS-M2-B-21A-3-3.5	FTMM02-SS-M2-B-21A-4-4.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-21A		FTMM02-M2-B-21B		
Sample ID					FTMM02-SS-M2-B-21A-5-5.5	FTMM02-SS-M2-B-21A-6-6.5	FTMM02-SS-M2-B-21B-0-0.5	FTMM02-SS-M2-B-21B-1-1.5	FTMM02-SS-M2-B-21B-2-2.5
Sample Date					11/1/1999	11/1/1999	11/24/1999	11/24/1999	11/24/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-21A		FTMM02-M2-B-21B		
Sample ID					FTMM02-SS-M2-B-21A-5-5.5	FTMM02-SS-M2-B-21A-6-6.5	FTMM02-SS-M2-B-21B-0-0.5	FTMM02-SS-M2-B-21B-1-1.5	FTMM02-SS-M2-B-21B-2-2.5
Sample Date					11/1/1999	11/1/1999	11/24/1999	11/24/1999	11/24/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-21B				
Sample ID					FTMM02-SS-M2-B-21B-3-3.5	FTMM02-SS-M2-B-21B-4-4.5	FTMM02-SS-M2-B-21B-5-5.5	FTMM02-SS-M2-B-21B-6-6.5	FTMM02-SS-M2-B-21B-7-7.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999	11/24/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-21B				
Sample ID					FTMM02-SS-M2-B-21B-3-3.5	FTMM02-SS-M2-B-21B-4-4.5	FTMM02-SS-M2-B-21B-5-5.5	FTMM02-SS-M2-B-21B-6-6.5	FTMM02-SS-M2-B-21B-7-7.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999	11/24/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-22				
Sample ID					FTMM02-SS-M2-B-22-0-0.5	FTMM02-SS-M2-B-22-1-1.5	FTMM02-SS-M2-B-22-2-2.5	FTMM02-SS-M2-B-22-3-3.5	FTMM02-SS-M2-B-22-4-4.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-22				
Sample ID					FTMM02-SS-M2-B-22-0-0.5	FTMM02-SS-M2-B-22-1-1.5	FTMM02-SS-M2-B-22-2-2.5	FTMM02-SS-M2-B-22-3-3.5	FTMM02-SS-M2-B-22-4-4.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	**0.185**	**0.193**	**0.429**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	**0.09**	ND	**0.086**
PCB (total)	0.24	1	0.03	-	ND	ND	**0.275**	**0.193**	**0.515**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-22	FTMM02-M2-B-23			
Sample ID					FTMM02-SS-M2-B-22-5-5.5	FTMM02-SS-M2-B-23-0-0.5	FTMM02-SS-M2-B-23-1-1.5	FTMM02-SS-M2-B-23-2-2.5	FTMM02-SS-M2-B-23-3-3.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-22	FTMM02-M2-B-23			
Sample ID					FTMM02-SS-M2-B-22-5-5.5	FTMM02-SS-M2-B-23-0-0.5	FTMM02-SS-M2-B-23-1-1.5	FTMM02-SS-M2-B-23-2-2.5	FTMM02-SS-M2-B-23-3-3.5
Sample Date					3/2/1999	3/2/1999	3/2/1999	3/2/1999	3/2/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.064**	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**0.064**	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-23		FTMM02-M2-B-24		
Sample ID					FTMM02-SS-M2-B-23-4-4.5	FTMM02-SS-M2-B-23-5-5.5	FTMM02-SS-M2-B-24-0-0.5	FTMM02-SS-M2-B-24-1-1.5	FTMM02-SS-M2-B-24-2-2.5
Sample Date					3/2/1999	3/2/1999	3/3/1999	3/3/1999	3/3/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-23		FTMM02-M2-B-24		
Sample ID					FTMM02-SS-M2-B-23-4-4.5	FTMM02-SS-M2-B-23-5-5.5	FTMM02-SS-M2-B-24-0-0.5	FTMM02-SS-M2-B-24-1-1.5	FTMM02-SS-M2-B-24-2-2.5
Sample Date					3/2/1999	3/2/1999	3/3/1999	3/3/1999	3/3/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	**0.831**	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.083**	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**0.914**	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24			FTMM02-M2-B-24A	
Sample ID					FTMM02-SS-M2-B-24-3-3.5	FTMM02-SS-M2-B-24-4-4.5	FTMM02-SS-M2-B-24-5-5.5	FTMM02-SS-M2-B-24A-0-0.5	FTMM02-SS-M2-B-24A-1-1.5
Sample Date					3/3/1999	3/3/1999	3/3/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24			FTMM02-M2-B-24A	
Sample ID					FTMM02-SS-M2-B-24-3-3.5	FTMM02-SS-M2-B-24-4-4.5	FTMM02-SS-M2-B-24-5-5.5	FTMM02-SS-M2-B-24A-0-0.5	FTMM02-SS-M2-B-24A-1-1.5
Sample Date					3/3/1999	3/3/1999	3/3/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24A				
Sample ID					FTMM02-SS-M2-B-24A-2-2.5	FTMM02-SS-M2-B-24A-3-3.5	FTMM02-SS-M2-B-24A-4-4.5	FTMM02-SS-M2-B-24A-5-5.5	FTMM02-SS-M2-B-24A-6-6.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24A				
Sample ID					FTMM02-SS-M2-B-24A-2-2.5	FTMM02-SS-M2-B-24A-3-3.5	FTMM02-SS-M2-B-24A-4-4.5	FTMM02-SS-M2-B-24A-5-5.5	FTMM02-SS-M2-B-24A-6-6.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	**5.364**
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	**5.364**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24A				
Sample ID					FTMM02-SS-M2-B-24A-10-10.5	FTMM02-SS-M2-B-24A-11-11.5	FTMM02-SS-M2-B-24A-7-7.5	FTMM02-SS-M2-B-24A-8-8.5	FTMM02-SS-M2-B-24A-9-9.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24A				
Sample ID					FTMM02-SS-M2-B-24A-10-10.5	FTMM02-SS-M2-B-24A-11-11.5	FTMM02-SS-M2-B-24A-7-7.5	FTMM02-SS-M2-B-24A-8-8.5	FTMM02-SS-M2-B-24A-9-9.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B				
Sample ID					FTMM02-SS-M2-B-24B-0-0.5	FTMM02-SS-M2-B-24B-0-0.5-Dup	FTMM02-SS-M2-B-24B-1-1.5	FTMM02-SS-M2-B-24B-1-1.5-Dup	FTMM02-SS-M2-B-24B-2-2.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999	11/24/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B				
Sample ID					FTMM02-SS-M2-B-24B-0-0.5	FTMM02-SS-M2-B-24B-0-0.5-Dup	FTMM02-SS-M2-B-24B-1-1.5	FTMM02-SS-M2-B-24B-1-1.5-Dup	FTMM02-SS-M2-B-24B-2-2.5
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999	11/24/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B				
Sample ID					FTMM02-SS-M2-B-24B-2-2.5-Dup	FTMM02-SS-M2-B-24B-3-3.5	FTMM02-SS-M2-B-24B-3-3.5-Dup	FTMM02-SS-M2-B-24B-4-4.5	FTMM02-SS-M2-B-24B-4-4.5-Dup
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999	11/24/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B				
Sample ID					FTMM02-SS-M2-B-24B-2-2.5-Dup	FTMM02-SS-M2-B-24B-3-3.5	FTMM02-SS-M2-B-24B-3-3.5-Dup	FTMM02-SS-M2-B-24B-4-4.5	FTMM02-SS-M2-B-24B-4-4.5-Dup
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999	11/24/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B				
Sample ID					FTMM02-SS-M2-B-24B-5-5.5	FTMM02-SS-M2-B-24B-5-5.5-Dup	FTMM02-SS-M2-B-24B-6.5-7	FTMM02-SS-M2-B-24B-6-6.5	FTMM02-SS-M2-B-24B-6-6.5-Dup
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999	11/24/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B				
Sample ID					FTMM02-SS-M2-B-24B-5-5.5	FTMM02-SS-M2-B-24B-5-5.5-Dup	FTMM02-SS-M2-B-24B-6.5-7	FTMM02-SS-M2-B-24B-6-6.5	FTMM02-SS-M2-B-24B-6-6.5-Dup
Sample Date					11/24/1999	11/24/1999	11/24/1999	11/24/1999	11/24/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B	FTMM02-M2-B-24C			
Sample ID					FTMM02-SS-M2-B-24B-7-7.5-Dup	FTMM02-SS-M2-B-24C-0-0.5	FTMM02-SS-M2-B-24C-1-1.5	FTMM02-SS-M2-B-24C-2-2.5	FTMM02-SS-M2-B-24C-3-3.5
Sample Date					11/24/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24B	FTMM02-M2-B-24C			
Sample ID					FTMM02-SS-M2-B-24B-7-7.5-Dup	FTMM02-SS-M2-B-24C-0-0.5	FTMM02-SS-M2-B-24C-1-1.5	FTMM02-SS-M2-B-24C-2-2.5	FTMM02-SS-M2-B-24C-3-3.5
Sample Date					11/24/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	**9.354**
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	**9.354**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24C				
Sample ID					FTMM02-SS-M2-B-24C-4-4.5	FTMM02-SS-M2-B-24C-5-5.5	FTMM02-SS-M2-B-24C-6-6.5	FTMM02-SS-M2-B-24C-7-7.5	FTMM02-SS-M2-B-24C-8-8.5
Sample Date					1/24/2000	1/24/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24C				
Sample ID					FTMM02-SS-M2-B-24C-4-4.5	FTMM02-SS-M2-B-24C-5-5.5	FTMM02-SS-M2-B-24C-6-6.5	FTMM02-SS-M2-B-24C-7-7.5	FTMM02-SS-M2-B-24C-8-8.5
Sample Date					1/24/2000	1/24/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	**805.055**	**48.835**	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**805.055**	**48.835**	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24C	FTMM02-M2-B-24D			
Sample ID					FTMM02-SS-M2-B-24C-9-9.5	FTMM02-SS-M2-B-24D-0-0.5	FTMM02-SS-M2-B-24D-1-1.5	FTMM02-SS-M2-B-24D-2-2.5	FTMM02-SS-M2-B-24D-3-3.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24C	FTMM02-M2-B-24D			
Sample ID					FTMM02-SS-M2-B-24C-9-9.5	FTMM02-SS-M2-B-24D-0-0.5	FTMM02-SS-M2-B-24D-1-1.5	FTMM02-SS-M2-B-24D-2-2.5	FTMM02-SS-M2-B-24D-3-3.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24D				
Sample ID					FTMM02-SS-M2-B-24D-4-4.5	FTMM02-SS-M2-B-24D-5-5.5	FTMM02-SS-M2-B-24D-6-6.5	FTMM02-SS-M2-B-24D-7-7.5	FTMM02-SS-M2-B-24D-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24D				
Sample ID					FTMM02-SS-M2-B-24D-4-4.5	FTMM02-SS-M2-B-24D-5-5.5	FTMM02-SS-M2-B-24D-6-6.5	FTMM02-SS-M2-B-24D-7-7.5	FTMM02-SS-M2-B-24D-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24D	FTMM02-M2-B-24E			
Sample ID					FTMM02-SS-M2-B-24D-9-9.5	FTMM02-SS-M2-B-24E-0-0.5	FTMM02-SS-M2-B-24E-1-1.5	FTMM02-SS-M2-B-24E-2-2.5	FTMM02-SS-M2-B-24E-3-3.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24D	FTMM02-M2-B-24E			
Sample ID					FTMM02-SS-M2-B-24D-9-9.5	FTMM02-SS-M2-B-24E-0-0.5	FTMM02-SS-M2-B-24E-1-1.5	FTMM02-SS-M2-B-24E-2-2.5	FTMM02-SS-M2-B-24E-3-3.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	**0.596**	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	**0.596**	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24E				
Sample ID					FTMM02-SS-M2-B-24E-4-4.5	FTMM02-SS-M2-B-24E-5-5.5	FTMM02-SS-M2-B-24E-6-6.5	FTMM02-SS-M2-B-24E-7-7.5	FTMM02-SS-M2-B-24E-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24E				
Sample ID					FTMM02-SS-M2-B-24E-4-4.5	FTMM02-SS-M2-B-24E-5-5.5	FTMM02-SS-M2-B-24E-6-6.5	FTMM02-SS-M2-B-24E-7-7.5	FTMM02-SS-M2-B-24E-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.591**	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**0.591**	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24E	FTMM02-M2-B-24F			
Sample ID					FTMM02-SS-M2-B-24E-9-9.5	FTMM02-SS-M2-B-24F-0-0.5	FTMM02-SS-M2-B-24F-1-1.5	FTMM02-SS-M2-B-24F-2-2.5	FTMM02-SS-M2-B-24F-3-3.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24E	FTMM02-M2-B-24F			
Sample ID					FTMM02-SS-M2-B-24E-9-9.5	FTMM02-SS-M2-B-24F-0-0.5	FTMM02-SS-M2-B-24F-1-1.5	FTMM02-SS-M2-B-24F-2-2.5	FTMM02-SS-M2-B-24F-3-3.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24F				
Sample ID					FTMM02-SS-M2-B-24F-4-4.5	FTMM02-SS-M2-B-24F-5-5.5	FTMM02-SS-M2-B-24F-6-6.5	FTMM02-SS-M2-B-24F-7-7.5	FTMM02-SS-M2-B-24F-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24F				
Sample ID					FTMM02-SS-M2-B-24F-4-4.5	FTMM02-SS-M2-B-24F-5-5.5	FTMM02-SS-M2-B-24F-6-6.5	FTMM02-SS-M2-B-24F-7-7.5	FTMM02-SS-M2-B-24F-8-8.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	**4.126**
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	**4.126**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24F	FTMM02-M2-B-24G		
Sample ID					FTMM02-SS-M2-B-24F-9-9.5	FTMM02-SS-M2-B-24G-0-0.5	FTMM02-SS-M2-B-24G-1-1.5	FTMM02-SS-M2-B-24G-2-2.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)								
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA
TIC VOCs (µg/kg)								
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)								
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA
TIC SVOCs (µg/kg)								
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24F	FTMM02-M2-B-24G		
Sample ID					FTMM02-SS-M2-B-24F-9-9.5	FTMM02-SS-M2-B-24G-0-0.5	FTMM02-SS-M2-B-24G-1-1.5	FTMM02-SS-M2-B-24G-2-2.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)								
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)								
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**1.756**	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**1.756**	ND	ND	ND
Inorganics (mg/kg)								
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24G				
Sample ID					FTMM02-SS-M2-B-24G-3-3.5	FTMM02-SS-M2-B-24G-4-4.5	FTMM02-SS-M2-B-24G-5-5.5	FTMM02-SS-M2-B-24G-6-6.5	FTMM02-SS-M2-B-24G-7-7.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24G				
Sample ID					FTMM02-SS-M2-B-24G-3-3.5	FTMM02-SS-M2-B-24G-4-4.5	FTMM02-SS-M2-B-24G-5-5.5	FTMM02-SS-M2-B-24G-6-6.5	FTMM02-SS-M2-B-24G-7-7.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24G		FTMM02-M2-B-24H		
Sample ID					FTMM02-SS-M2-B-24G-8-8.5	FTMM02-SS-M2-B-24G-9-9.5	FTMM02-SS-M2-B-24H-0-0.5	FTMM02-SS-M2-B-24H-1-1.5	FTMM02-SS-M2-B-24H-2-2.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24G		FTMM02-M2-B-24H		
Sample ID					FTMM02-SS-M2-B-24G-8-8.5	FTMM02-SS-M2-B-24G-9-9.5	FTMM02-SS-M2-B-24H-0-0.5	FTMM02-SS-M2-B-24H-1-1.5	FTMM02-SS-M2-B-24H-2-2.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H				
Sample ID					FTMM02-SS-M2-B-24H-3-3.5	FTMM02-SS-M2-B-24H-4-4.5	FTMM02-SS-M2-B-24H-5-5.5	FTMM02-SS-M2-B-24H-6-6.5	FTMM02-SS-M2-B-24H-6-6.5-Dup
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H				
Sample ID					FTMM02-SS-M2-B-24H-3-3.5	FTMM02-SS-M2-B-24H-4-4.5	FTMM02-SS-M2-B-24H-5-5.5	FTMM02-SS-M2-B-24H-6-6.5	FTMM02-SS-M2-B-24H-6-6.5-Dup
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H				
Sample ID					FTMM02-SS-M2-B-24H-7-7.5	FTMM02-SS-M2-B-24H-7-7.5-Dup	FTMM02-SS-M2-B-24H-8-8.5	FTMM02-SS-M2-B-24H-8-8.5-Dup	FTMM02-SS-M2-B-24H-9-9.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H				
Sample ID					FTMM02-SS-M2-B-24H-7-7.5	FTMM02-SS-M2-B-24H-7-7.5-Dup	FTMM02-SS-M2-B-24H-8-8.5	FTMM02-SS-M2-B-24H-8-8.5-Dup	FTMM02-SS-M2-B-24H-9-9.5
Sample Date					2/7/2000	2/7/2000	2/7/2000	2/7/2000	2/7/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H	FTMM02-M2-B-25			
Sample ID					FTMM02-SS-M2-B-24H-9-9.5-Dup	FTMM02-SS-M2-B-25-0-0.5	FTMM02-SS-M2-B-25-1-1.5	FTMM02-SS-M2-B-25-2-2.5	FTMM02-SS-M2-B-25-3-3.5
Sample Date					2/7/2000	3/3/1999	3/3/1999	3/3/1999	3/3/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-24H	FTMM02-M2-B-25			
Sample ID					FTMM02-SS-M2-B-24H-9-9.5-Dup	FTMM02-SS-M2-B-25-0-0.5	FTMM02-SS-M2-B-25-1-1.5	FTMM02-SS-M2-B-25-2-2.5	FTMM02-SS-M2-B-25-3-3.5
Sample Date					2/7/2000	3/3/1999	3/3/1999	3/3/1999	3/3/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	**0.653**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	**0.69**
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	**1.343**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-25				
Sample ID					FTMM02-SS-M2-B-25-4-4.5	FTMM02-SS-M2-B-25-5-5.5	FTMM02-SS-M2-B-25-6-6.5	FTMM02-SS-M2-B-25-7-7.5	FTMM02-SS-M2-B-25-8-8.5
Sample Date					3/3/1999	3/3/1999	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-25				
Sample ID					FTMM02-SS-M2-B-25-4-4.5	FTMM02-SS-M2-B-25-5-5.5	FTMM02-SS-M2-B-25-6-6.5	FTMM02-SS-M2-B-25-7-7.5	FTMM02-SS-M2-B-25-8-8.5
Sample Date					3/3/1999	3/3/1999	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	**7.057**	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.039**	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**0.039**	**7.057**	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-25	FTMM02-M2-B-26			
Sample ID					FTMM02-SS-M2-B-25-9-9.5	FTMM02-SS-M2-B-26-0-0.5	FTMM02-SS-M2-B-26-1-1.5	FTMM02-SS-M2-B-26-2-2.5	FTMM02-SS-M2-B-26-3-3.5
Sample Date					1/24/2000	3/3/1999	3/3/1999	3/3/1999	3/3/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-25	FTMM02-M2-B-26			
Sample ID					FTMM02-SS-M2-B-25-9-9.5	FTMM02-SS-M2-B-26-0-0.5	FTMM02-SS-M2-B-26-1-1.5	FTMM02-SS-M2-B-26-2-2.5	FTMM02-SS-M2-B-26-3-3.5
Sample Date					1/24/2000	3/3/1999	3/3/1999	3/3/1999	3/3/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	**0.32**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	**0.02**	ND	ND	**0.383**
PCB (total)	0.24	1	0.03	-	ND	**0.02**	ND	ND	**0.703**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-26				
Sample ID					FTMM02-SS-M2-B-26-4-4.5	FTMM02-SS-M2-B-26-5-5.5	FTMM02-SS-M2-B-26-6-6.5	FTMM02-SS-M2-B-26-7-7.5	FTMM02-SS-M2-B-26-8-8.5
Sample Date					3/3/1999	3/3/1999	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-26				
Sample ID					FTMM02-SS-M2-B-26-4-4.5	FTMM02-SS-M2-B-26-5-5.5	FTMM02-SS-M2-B-26-6-6.5	FTMM02-SS-M2-B-26-7-7.5	FTMM02-SS-M2-B-26-8-8.5
Sample Date					3/3/1999	3/3/1999	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	**1.132**	**4.231**	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.026**	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**1.158**	**4.231**	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-26	FTMM02-M2-B-27			
Sample ID					FTMM02-SS-M2-B-26-9-9.5	FTMM02-SS-M2-B-27-0-0.5	FTMM02-SS-M2-B-27-1-1.5	FTMM02-SS-M2-B-27-2-2.5	FTMM02-SS-M2-B-27-3-3.5
Sample Date					1/24/2000	3/3/1999	3/3/1999	3/3/1999	3/3/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-26	FTMM02-M2-B-27			
Sample ID					FTMM02-SS-M2-B-26-9-9.5	FTMM02-SS-M2-B-27-0-0.5	FTMM02-SS-M2-B-27-1-1.5	FTMM02-SS-M2-B-27-2-2.5	FTMM02-SS-M2-B-27-3-3.5
Sample Date					1/24/2000	3/3/1999	3/3/1999	3/3/1999	3/3/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	**0.707**
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	**0.707**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-27		FTMM02-M2-B-27A		
Sample ID					FTMM02-SS-M2-B-27-4-4.5	FTMM02-SS-M2-B-27-5-5.5	FTMM02-SS-M2-B-27A-0-0.5	FTMM02-SS-M2-B-27A-0-0.5-Dup	FTMM02-SS-M2-B-27A-1-1.5
Sample Date					3/3/1999	3/3/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-27		FTMM02-M2-B-27A		
Sample ID					FTMM02-SS-M2-B-27-4-4.5	FTMM02-SS-M2-B-27-5-5.5	FTMM02-SS-M2-B-27A-0-0.5	FTMM02-SS-M2-B-27A-0-0.5-Dup	FTMM02-SS-M2-B-27A-1-1.5
Sample Date					3/3/1999	3/3/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	**0.033**	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	**0.033**	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A				
Sample ID					FTMM02-SS-M2-B-27A-1-1.5-Dup	FTMM02-SS-M2-B-27A-2-2.5	FTMM02-SS-M2-B-27A-2-2.5-Dup	FTMM02-SS-M2-B-27A-3-3.5	FTMM02-SS-M2-B-27A-3-3.5-Dup
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A				
Sample ID					FTMM02-SS-M2-B-27A-1-1.5-Dup	FTMM02-SS-M2-B-27A-2-2.5	FTMM02-SS-M2-B-27A-2-2.5-Dup	FTMM02-SS-M2-B-27A-3-3.5	FTMM02-SS-M2-B-27A-3-3.5-Dup
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A				
Sample ID					FTMM02-SS-M2-B-27A-4-4.5	FTMM02-SS-M2-B-27A-4-4.5-Dup	FTMM02-SS-M2-B-27A-5-5.5	FTMM02-SS-M2-B-27A-5-5.5-Dup	FTMM02-SS-M2-B-27A-6-6.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999	11/1/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A				
Sample ID					FTMM02-SS-M2-B-27A-4-4.5	FTMM02-SS-M2-B-27A-4-4.5-Dup	FTMM02-SS-M2-B-27A-5-5.5	FTMM02-SS-M2-B-27A-5-5.5-Dup	FTMM02-SS-M2-B-27A-6-6.5
Sample Date					11/1/1999	11/1/1999	11/1/1999	11/1/1999	11/1/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A	FTMM02-M2-B-27B			
Sample ID					FTMM02-SS-M2-B-27A-6-6.5-Dup	FTMM02-SS-M2-B-27B-0-0.5	FTMM02-SS-M2-B-27B-1-1.5	FTMM02-SS-M2-B-27B-2-2.5	FTMM02-SS-M2-B-27B-3-3.5
Sample Date					11/1/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-27A	FTMM02-M2-B-27B			
Sample ID					FTMM02-SS-M2-B-27A-6-6.5-Dup	FTMM02-SS-M2-B-27B-0-0.5	FTMM02-SS-M2-B-27B-1-1.5	FTMM02-SS-M2-B-27B-2-2.5	FTMM02-SS-M2-B-27B-3-3.5
Sample Date					11/1/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-27B				FTMM02-M2-B-28
Sample ID					FTMM02-SS-M2-B-27B-4-4.5	FTMM02-SS-M2-B-27B-5-5.5	FTMM02-SS-M2-B-27B-6-6.5	FTMM02-SS-M2-B-27B-7-7.5	FTMM02-SS-M2-B-28-0-0.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	3/5/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-27B				FTMM02-M2-B-28
Sample ID					FTMM02-SS-M2-B-27B-4-4.5	FTMM02-SS-M2-B-27B-5-5.5	FTMM02-SS-M2-B-27B-6-6.5	FTMM02-SS-M2-B-27B-7-7.5	FTMM02-SS-M2-B-28-0-0.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	3/5/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-28				
Sample ID					FTMM02-SS-M2-B-28-1-1.5	FTMM02-SS-M2-B-28-2-2.5	FTMM02-SS-M2-B-28-3-3.5	FTMM02-SS-M2-B-28-4-4.5	FTMM02-SS-M2-B-28-5-5.5
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-28				
Sample ID					FTMM02-SS-M2-B-28-1-1.5	FTMM02-SS-M2-B-28-2-2.5	FTMM02-SS-M2-B-28-3-3.5	FTMM02-SS-M2-B-28-4-4.5	FTMM02-SS-M2-B-28-5-5.5
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	**0.224**	ND	**0.62**	**0.654**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.02**	**0.196**	ND	**0.231**	**0.315**
PCB (total)	0.24	1	0.03	-	**0.02**	**0.42**	ND	**0.851**	**0.969**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-29				
Sample ID					FTMM02-SS-M2-B-29-0-0.5	FTMM02-SS-M2-B-29-1-1.5	FTMM02-SS-M2-B-29-2-2.5	FTMM02-SS-M2-B-29-3-3.5	FTMM02-SS-M2-B-29-4-4.5
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-29				
Sample ID					FTMM02-SS-M2-B-29-0-0.5	FTMM02-SS-M2-B-29-1-1.5	FTMM02-SS-M2-B-29-2-2.5	FTMM02-SS-M2-B-29-3-3.5	FTMM02-SS-M2-B-29-4-4.5
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-29	FTMM02-M2-B-3			
Sample ID					FTMM02-SS-M2-B-29-5-5.5	FTMM02-SS-M2-B-3-0-0.5	FTMM02-SS-M2-B-3-1-1.5	FTMM02-SS-M2-B-3-2-2.5	FTMM02-SS-M2-B-3-3-3.5
Sample Date					3/5/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-29	FTMM02-M2-B-3			
Sample ID					FTMM02-SS-M2-B-29-5-5.5	FTMM02-SS-M2-B-3-0-0.5	FTMM02-SS-M2-B-3-1-1.5	FTMM02-SS-M2-B-3-2-2.5	FTMM02-SS-M2-B-3-3-3.5
Sample Date					3/5/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	**0.216**	**0.967**	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.116**	**0.171**	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**0.332**	**1.138**	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-3					
Sample ID					FTMM02-SS-M2-B-3-4-4.5	FTMM02-SS-M2-B-3-5-5.5	FTMM02-SS-M2-B-3-6-6.5	FTMM02-SS-M2-B-3-7-7.5	FTMM02-SS-M2-B-3-8-8.5	FTMM02-SS-M2-B-3-9-9.5
Sample Date					2/17/1999	2/17/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-3					
Sample ID					FTMM02-SS-M2-B-3-4-4.5	FTMM02-SS-M2-B-3-5-5.5	FTMM02-SS-M2-B-3-6-6.5	FTMM02-SS-M2-B-3-7-7.5	FTMM02-SS-M2-B-3-8-8.5	FTMM02-SS-M2-B-3-9-9.5
Sample Date					2/17/1999	2/17/1999	1/24/2000	1/24/2000	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	ND	**1.935**	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	**0.133**	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	**2.068**	ND	ND	ND	ND
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-30				
Sample ID					FTMM02-SS-M2-B-30-0-0.5	FTMM02-SS-M2-B-30-0-0.5-Dup	FTMM02-SS-M2-B-30-1-1.5	FTMM02-SS-M2-B-30-1-1.5-Dup	FTMM02-SS-M2-B-30-2-2.5
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-30				
Sample ID					FTMM02-SS-M2-B-30-0-0.5	FTMM02-SS-M2-B-30-0-0.5-Dup	FTMM02-SS-M2-B-30-1-1.5	FTMM02-SS-M2-B-30-1-1.5-Dup	FTMM02-SS-M2-B-30-2-2.5
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	**0.049**
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	**0.049**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-30				
Sample ID					FTMM02-SS-M2-B-30-2-2.5-Dup	FTMM02-SS-M2-B-30-3-3.5	FTMM02-SS-M2-B-30-3-3.5-Dup	FTMM02-SS-M2-B-30-4-4.5	FTMM02-SS-M2-B-30-4-4.5-Dup
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-30				
Sample ID					FTMM02-SS-M2-B-30-2-2.5-Dup	FTMM02-SS-M2-B-30-3-3.5	FTMM02-SS-M2-B-30-3-3.5-Dup	FTMM02-SS-M2-B-30-4-4.5	FTMM02-SS-M2-B-30-4-4.5-Dup
Sample Date					3/5/1999	3/5/1999	3/5/1999	3/5/1999	3/5/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-30		FTMM02-M2-B-31	FTMM02-M2-B-32	FTMM02-M2-B-33
Sample ID					FTMM02-SS-M2-B-30-5-5.5	FTMM02-SS-M2-B-30-5-5.5-Dup	FTMM02-SS-M2-B-31-6.5-6.5	FTMM02-SS-M2-B-32-6.5-6.5	FTMM02-SS-M2-B-33-6.5-6.5
Sample Date					3/5/1999	3/5/1999	3/8/1999	3/8/1999	3/8/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	ND	ND	ND
Benzene	1,200	5,100	0.23	-	NA	NA	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	NA	NA	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	ND	ND	ND
Chloroform	320	1,400	0.061	-	NA	NA	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	NA	NA	**2,600**	**2,700**	**510 J**
Toluene	490,000	4,700,000	76	-	NA	NA	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	NA	NA	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-30		FTMM02-M2-B-31	FTMM02-M2-B-32	FTMM02-M2-B-33
Sample ID					FTMM02-SS-M2-B-30-5-5.5	FTMM02-SS-M2-B-30-5-5.5-Dup	FTMM02-SS-M2-B-31-6.5-6.5	FTMM02-SS-M2-B-32-6.5-6.5	FTMM02-SS-M2-B-33-6.5-6.5
Sample Date					3/5/1999	3/5/1999	3/8/1999	3/8/1999	3/8/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	ND	ND	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	ND	ND	NA	NA	NA
PCB (total)	0.24	1	0.03	-	ND	ND	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-34	FTMM02-M2-B-35	FTMM02-M2-B-36	FTMM02-M2-B-37	FTMM02-M2-B-38
Sample ID					FTMM02-SS-M2-B-34-6.5-6.5	FTMM02-SS-M2-B-35-3-3	FTMM02-SS-M2-B-36-3.5-3.5	FTMM02-SS-M2-B-37-6.5-6.5	FTMM02-SS-M2-B-38-6.5-6.5
Sample Date					3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/10/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	**2,800**	**720**	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	**940**	ND	**850**	**820**	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-34	FTMM02-M2-B-35	FTMM02-M2-B-36	FTMM02-M2-B-37	FTMM02-M2-B-38
Sample ID					FTMM02-SS-M2-B-34-6.5-6.5	FTMM02-SS-M2-B-35-3-3	FTMM02-SS-M2-B-36-3.5-3.5	FTMM02-SS-M2-B-37-6.5-6.5	FTMM02-SS-M2-B-38-6.5-6.5
Sample Date					3/9/1999	3/9/1999	3/9/1999	3/9/1999	3/10/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-39	FTMM02-M2-B-3A			
Sample ID					FTMM02-SS-M2-B-39-6.5-6.5	FTMM02-SS-M2-B-3A-0-0.5	FTMM02-SS-M2-B-3A-1-1.5	FTMM02-SS-M2-B-3A-2-2.5	FTMM02-SS-M2-B-3A-3-3.5
Sample Date					3/10/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	ND	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	ND	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	ND	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	ND	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	ND	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	ND	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	ND	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	ND	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-39	FTMM02-M2-B-3A			
Sample ID					FTMM02-SS-M2-B-39-6.5-6.5	FTMM02-SS-M2-B-3A-0-0.5	FTMM02-SS-M2-B-3A-1-1.5	FTMM02-SS-M2-B-3A-2-2.5	FTMM02-SS-M2-B-3A-3-3.5
Sample Date					3/10/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	NA	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	NA	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	NA	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-3A		
Sample ID					FTMM02-SS-M2-B-3A-4-4.5	FTMM02-SS-M2-B-3A-5-5.5	FTMM02-SS-M2-B-3A-6-6.5
Sample Date					10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)							
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA
TIC VOCs (µg/kg)							
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)							
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA
TIC SVOCs (µg/kg)							
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-3A		
Sample ID					FTMM02-SS-M2-B-3A-4-4.5	FTMM02-SS-M2-B-3A-5-5.5	FTMM02-SS-M2-B-3A-6-6.5
Sample Date					10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)							
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA
Pesticides & PCBs (mg/kg)							
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND
Inorganics (mg/kg)							
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-3A		FTMM02-M2-B-3B		
Sample ID					FTMM02-SS-M2-B-3A-7-7.5	FTMM02-SS-M2-B-3A-8-8.5	FTMM02-SS-M2-B-3B-0-0.5	FTMM02-SS-M2-B-3B-1-1.5	FTMM02-SS-M2-B-3B-2-2.5
Sample Date					10/27/1999	10/27/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-3A		FTMM02-M2-B-3B		
Sample ID					FTMM02-SS-M2-B-3A-7-7.5	FTMM02-SS-M2-B-3A-8-8.5	FTMM02-SS-M2-B-3B-0-0.5	FTMM02-SS-M2-B-3B-1-1.5	FTMM02-SS-M2-B-3B-2-2.5
Sample Date					10/27/1999	10/27/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-3B				
Sample ID					FTMM02-SS-M2-B-3B-3-3.5	FTMM02-SS-M2-B-3B-4-4.5	FTMM02-SS-M2-B-3B-5-5.5	FTMM02-SS-M2-B-3B-6-6.5	FTMM02-SS-M2-B-3B-7-7.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-3B				
Sample ID					FTMM02-SS-M2-B-3B-3-3.5	FTMM02-SS-M2-B-3B-4-4.5	FTMM02-SS-M2-B-3B-5-5.5	FTMM02-SS-M2-B-3B-6-6.5	FTMM02-SS-M2-B-3B-7-7.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-4					
Sample ID					FTMM02-SS-M2-B-4-0-0.5	FTMM02-SS-M2-B-4-1-1.5	FTMM02-SS-M2-B-4-2-2.5	FTMM02-SS-M2-B-4-3-3.5	FTMM02-SS-M2-B-4-4-4.5	FTMM02-SS-M2-B-4-5-5.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-4					
Sample ID					FTMM02-SS-M2-B-4-0-0.5	FTMM02-SS-M2-B-4-1-1.5	FTMM02-SS-M2-B-4-2-2.5	FTMM02-SS-M2-B-4-3-3.5	FTMM02-SS-M2-B-4-4-4.5	FTMM02-SS-M2-B-4-5-5.5
Sample Date					2/17/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999	2/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	ND	**4.219**	ND	ND	ND	**65.402**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	**0.279**	ND	ND	ND	**10.431**
PCB (total)	0.24	1	0.03	-	ND	**4.498**	ND	ND	ND	**75.833**
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-4				FTMM02-M2-B-40
Sample ID					FTMM02-SS-M2-B-4-6-6.5	FTMM02-SS-M2-B-4-7-7.5	FTMM02-SS-M2-B-4-8-8.5	FTMM02-SS-M2-B-4-9-9.5	FTMM02-SS-M2-B-40-6.5-6.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000	3/10/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	ND
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	ND
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	ND
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	ND
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	ND
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	ND
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	ND
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	ND
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-4				FTMM02-M2-B-40
Sample ID					FTMM02-SS-M2-B-4-6-6.5	FTMM02-SS-M2-B-4-7-7.5	FTMM02-SS-M2-B-4-8-8.5	FTMM02-SS-M2-B-4-9-9.5	FTMM02-SS-M2-B-40-6.5-6.5
Sample Date					1/24/2000	1/24/2000	1/24/2000	1/24/2000	3/10/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	NA
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	NA
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	NA
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-41	FTMM02-M2-B-42	FTMM02-M2-B-43	FTMM02-M2-B-44	FTMM02-M2-B-45
Sample ID					FTMM02-SS-M2-B-41-6.5-6.5	FTMM02-SS-M2-B-42-6.5-6.5	FTMM02-SS-M2-B-43-6.5-6.5	FTMM02-SS-M2-B-44-6.5-6.5	FTMM02-SS-M2-B-45-6.5-6.5
Sample Date					3/10/1999	3/10/1999	3/11/1999	3/11/1999	3/16/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	**1,000**	ND	**1,400**	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-41	FTMM02-M2-B-42	FTMM02-M2-B-43	FTMM02-M2-B-44	FTMM02-M2-B-45
Sample ID					FTMM02-SS-M2-B-41-6.5-6.5	FTMM02-SS-M2-B-42-6.5-6.5	FTMM02-SS-M2-B-43-6.5-6.5	FTMM02-SS-M2-B-44-6.5-6.5	FTMM02-SS-M2-B-45-6.5-6.5
Sample Date					3/10/1999	3/10/1999	3/11/1999	3/11/1999	3/16/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-46	FTMM02-M2-B-47	FTMM02-M2-B-48	FTMM02-M2-B-49	FTMM02-M2-B-5	
Sample ID					FTMM02-SS-M2-B-46-6-6	FTMM02-SS-M2-B-47-6-6	FTMM02-SS-M2-B-48-6-6	FTMM02-SS-M2-B-49-6-6	FTMM02-SS-M2-B-5-0-0.5	FTMM02-SS-M2-B-5-1-1.5
Sample Date					3/16/1999	3/16/1999	3/16/1999	3/17/1999	2/19/1999	2/19/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	NA	NA
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	NA	NA
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	NA	NA
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	NA	NA
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND	NA	NA
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	NA	NA
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-46	FTMM02-M2-B-47	FTMM02-M2-B-48	FTMM02-M2-B-49	FTMM02-M2-B-5	
Sample ID					FTMM02-SS-M2-B-46-6-6	FTMM02-SS-M2-B-47-6-6	FTMM02-SS-M2-B-48-6-6	FTMM02-SS-M2-B-49-6-6	FTMM02-SS-M2-B-5-0-0.5	FTMM02-SS-M2-B-5-1-1.5
Sample Date					3/16/1999	3/16/1999	3/16/1999	3/17/1999	2/19/1999	2/19/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	ND	**0.117**
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	ND	ND
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	ND	**0.054**
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	ND	**0.171**
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-5				FTMM02-M2-B-50	FTMM02-M2-B-51
Sample ID					FTMM02-SS-M2-B-5-2-2.5	FTMM02-SS-M2-B-5-3-3.5	FTMM02-SS-M2-B-5-4-4.5	FTMM02-SS-M2-B-5-5-5.5	FTMM02-SS-M2-B-50-6-6	FTMM02-SS-M2-B-51-6-6
Sample Date					2/19/1999	2/19/1999	2/19/1999	2/19/1999	3/17/1999	3/17/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	ND	ND
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	ND	ND
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	ND	ND
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	ND	ND
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	ND	ND
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	ND	ND
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	ND	ND
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-5				FTMM02-M2-B-50	FTMM02-M2-B-51
Sample ID					FTMM02-SS-M2-B-5-2-2.5	FTMM02-SS-M2-B-5-3-3.5	FTMM02-SS-M2-B-5-4-4.5	FTMM02-SS-M2-B-5-5-5.5	FTMM02-SS-M2-B-50-6-6	FTMM02-SS-M2-B-51-6-6
Sample Date					2/19/1999	2/19/1999	2/19/1999	2/19/1999	3/17/1999	3/17/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	**0.05**	ND	ND	ND	NA	NA
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	NA	NA
Aroclor-1260	0.24	1	0.027	-	**0.047**	ND	**0.483**	**0.148**	NA	NA
PCB (total)	0.24	1	0.03	-	**0.097**	ND	**0.483**	**0.148**	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-52	FTMM02-M2-B-53	FTMM02-M2-B-54	FTMM02-M2-B-55		FTMM02-M2-B-56
Sample ID					FTMM02-SS-M2-B-52-6-6	FTMM02-SS-M2-B-53-6-6	FTMM02-SS-M2-B-54-6-6	FTMM02-SS-M2-B-55-6-6	FTMM02-SS-M2-B-55-6-6-Dup	FTMM02-SS-M2-B-56-6-6
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/18/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND	**1,500**
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND	**1,400**
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	**3,800**	**800**	**1,700**	**560 J**	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-52	FTMM02-M2-B-53	FTMM02-M2-B-54	FTMM02-M2-B-55		FTMM02-M2-B-56
Sample ID					FTMM02-SS-M2-B-52-6-6	FTMM02-SS-M2-B-53-6-6	FTMM02-SS-M2-B-54-6-6	FTMM02-SS-M2-B-55-6-6	FTMM02-SS-M2-B-55-6-6-Dup	FTMM02-SS-M2-B-56-6-6
Sample Date					3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/17/1999	3/18/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-57	FTMM02-M2-B-58	FTMM02-M2-B-59	FTMM02-M2-B-59A	FTMM02-M2-B-6	
Sample ID					FTMM02-SS-M2-B-57-6-6	FTMM02-SS-M2-B-58-6-6	FTMM02-SS-M2-B-59-6-6	FTMM02-SS-M2-B-59A-6-6	FTMM02-SS-M2-B-6-0-0.5	FTMM02-SS-M2-B-6-1-1.5
Sample Date					3/18/1999	3/18/1999	3/18/1999	3/23/1999	2/19/1999	2/19/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	NA	NA
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	NA	NA
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	**430**	ND	**2,700**	**3,700**	NA	NA
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	NA	NA
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND	NA	NA
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	NA	NA
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-57	FTMM02-M2-B-58	FTMM02-M2-B-59	FTMM02-M2-B-59A	FTMM02-M2-B-6	
Sample ID					FTMM02-SS-M2-B-57-6-6	FTMM02-SS-M2-B-58-6-6	FTMM02-SS-M2-B-59-6-6	FTMM02-SS-M2-B-59A-6-6	FTMM02-SS-M2-B-6-0-0.5	FTMM02-SS-M2-B-6-1-1.5
Sample Date					3/18/1999	3/18/1999	3/18/1999	3/23/1999	2/19/1999	2/19/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	**0.081**	ND
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	ND	ND
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	**0.04**	ND
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	**0.121**	ND
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6					
Sample ID					FTMM02-SS-M2-B-6-2-2.5	FTMM02-SS-M2-B-6-3-3.5	FTMM02-SS-M2-B-6-4-4.5	FTMM02-SS-M2-B-6-5-5.5	FTMM02-SS-M2-B-6-6-6.5	FTMM02-SS-M2-B-6-7-7.5
Sample Date					2/19/1999	2/19/1999	2/19/1999	2/19/1999	1/24/2000	1/24/2000
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6					
Sample ID					FTMM02-SS-M2-B-6-2-2.5	FTMM02-SS-M2-B-6-3-3.5	FTMM02-SS-M2-B-6-4-4.5	FTMM02-SS-M2-B-6-5-5.5	FTMM02-SS-M2-B-6-6-6.5	FTMM02-SS-M2-B-6-7-7.5
Sample Date					2/19/1999	2/19/1999	2/19/1999	2/19/1999	1/24/2000	1/24/2000
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	**208.421**	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	**0.029**	ND	**3.18**	ND	ND
PCB (total)	0.24	1	0.03	-	ND	**0.029**	ND	**211.601**	ND	ND
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6		FTMM02-M2-B-60	FTMM02-M2-B-61	FTMM02-M2-B-62
Sample ID					FTMM02-SS-M2-B-6-8-8.5	FTMM02-SS-M2-B-6-9-9.5	FTMM02-SS-M2-B-60-6-6	FTMM02-SS-M2-B-61-6-6	FTMM02-SS-M2-B-62-3.25-3.25
Sample Date					1/24/2000	1/24/2000	3/23/1999	3/23/1999	3/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	ND	ND	ND
Benzene	1,200	5,100	0.23	-	NA	NA	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	NA	NA	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	**1,000**	ND	ND
Chloroform	320	1,400	0.061	-	NA	NA	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	NA	NA	ND	ND	ND
Toluene	490,000	4,700,000	76	-	NA	NA	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	NA	NA	**710 J**	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6		FTMM02-M2-B-60	FTMM02-M2-B-61	FTMM02-M2-B-62
Sample ID					FTMM02-SS-M2-B-6-8-8.5	FTMM02-SS-M2-B-6-9-9.5	FTMM02-SS-M2-B-60-6-6	FTMM02-SS-M2-B-61-6-6	FTMM02-SS-M2-B-62-3.25-3.25
Sample Date					1/24/2000	1/24/2000	3/23/1999	3/23/1999	3/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	ND	ND	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	ND	ND	NA	NA	NA
PCB (total)	0.24	1	0.03	-	ND	ND	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-63	FTMM02-M2-B-64	FTMM02-M2-B-64A	FTMM02-M2-B-64B	FTMM02-M2-B-64C
Sample ID					FTMM02-SS-M2-B-63-6-6	FTMM02-SS-M2-B-64-6-6	FTMM02-SS-M2-B-64A-7.5-7.5	FTMM02-SS-M2-B-64B-7.5-7.5	FTMM02-SS-M2-B-64C-8-8
Sample Date					3/23/1999	3/23/1999	11/3/1999	11/4/1999	12/3/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-63	FTMM02-M2-B-64	FTMM02-M2-B-64A	FTMM02-M2-B-64B	FTMM02-M2-B-64C
Sample ID					FTMM02-SS-M2-B-63-6-6	FTMM02-SS-M2-B-64-6-6	FTMM02-SS-M2-B-64A-7.5-7.5	FTMM02-SS-M2-B-64B-7.5-7.5	FTMM02-SS-M2-B-64C-8-8
Sample Date					3/23/1999	3/23/1999	11/3/1999	11/4/1999	12/3/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-64D	FTMM02-M2-B-64E	FTMM02-M2-B-64F	FTMM02-M2-B-64G	FTMM02-M2-B-64H
Sample ID					FTMM02-SS-M2-B-64D-8-8	FTMM02-SS-M2-B-64E-8-8	FTMM02-SS-M2-B-64F-4-4.5	FTMM02-SS-M2-B-64G-7-7.5	FTMM02-SS-M2-B-64H-5-5.5
Sample Date					12/6/1999	12/7/1999	1/10/2000	1/11/2000	1/12/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	**1,800**	**2,300**	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	**430**	**440**	**490**	**2,500**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	**970**	**1,100**	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	**940**	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-64D	FTMM02-M2-B-64E	FTMM02-M2-B-64F	FTMM02-M2-B-64G	FTMM02-M2-B-64H
Sample ID					FTMM02-SS-M2-B-64D-8-8	FTMM02-SS-M2-B-64E-8-8	FTMM02-SS-M2-B-64F-4-4.5	FTMM02-SS-M2-B-64G-7-7.5	FTMM02-SS-M2-B-64H-5-5.5
Sample Date					12/6/1999	12/7/1999	1/10/2000	1/11/2000	1/12/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-65	FTMM02-M2-B-65A	FTMM02-M2-B-65B	FTMM02-M2-B-65C	FTMM02-M2-B-65D
Sample ID					FTMM02-SS-M2-B-65-6-6	FTMM02-SS-M2-B-65A-7.5-7.5	FTMM02-SS-M2-B-65B-7.5-7.5	FTMM02-SS-M2-B-65C-8-8	FTMM02-SS-M2-B-65D-8-8
Sample Date					3/23/1999	11/3/1999	11/4/1999	12/3/1999	12/6/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	**990**	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-65	FTMM02-M2-B-65A	FTMM02-M2-B-65B	FTMM02-M2-B-65C	FTMM02-M2-B-65D
Sample ID					FTMM02-SS-M2-B-65-6-6	FTMM02-SS-M2-B-65A-7.5-7.5	FTMM02-SS-M2-B-65B-7.5-7.5	FTMM02-SS-M2-B-65C-8-8	FTMM02-SS-M2-B-65D-8-8
Sample Date					3/23/1999	11/3/1999	11/4/1999	12/3/1999	12/6/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-65E	FTMM02-M2-B-65F	FTMM02-M2-B-65G	FTMM02-M2-B-65H	FTMM02-M2-B-66
Sample ID					FTMM02-SS-M2-B-65E-8-8	FTMM02-SS-M2-B-65F-4-4.5	FTMM02-SS-M2-B-65G-7.5-8	FTMM02-SS-M2-B-65H-5-5.5	FTMM02-SS-M2-B-66-6.5-6.5
Sample Date					12/7/1999	1/10/2000	1/11/2000	1/12/2000	3/30/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	**2,800**	**3,900**	**4,100**	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	**430**
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	**5,100**	ND	ND	ND
Chloroform	320	1,400	0.061	-	**340**	**860**	**550**	**1,000**	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	**1,800**	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	**810**	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-65E	FTMM02-M2-B-65F	FTMM02-M2-B-65G	FTMM02-M2-B-65H	FTMM02-M2-B-66
Sample ID					FTMM02-SS-M2-B-65E-8-8	FTMM02-SS-M2-B-65F-4-4.5	FTMM02-SS-M2-B-65G-7.5-8	FTMM02-SS-M2-B-65H-5-5.5	FTMM02-SS-M2-B-66-6.5-6.5
Sample Date					12/7/1999	1/10/2000	1/11/2000	1/12/2000	3/30/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-66A	FTMM02-M2-B-66B	FTMM02-M2-B-66C	FTMM02-M2-B-66D	FTMM02-M2-B-66E
Sample ID					FTMM02-SS-M2-B-66A-7.5-7.5	FTMM02-SS-M2-B-66B-7.5-7.5	FTMM02-SS-M2-B-66C-8-8	FTMM02-SS-M2-B-66D-8-8	FTMM02-SS-M2-B-66E-8-8
Sample Date					11/3/1999	11/4/1999	12/3/1999	12/6/1999	12/7/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	**330**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-66A	FTMM02-M2-B-66B	FTMM02-M2-B-66C	FTMM02-M2-B-66D	FTMM02-M2-B-66E
Sample ID					FTMM02-SS-M2-B-66A-7.5-7.5	FTMM02-SS-M2-B-66B-7.5-7.5	FTMM02-SS-M2-B-66C-8-8	FTMM02-SS-M2-B-66D-8-8	FTMM02-SS-M2-B-66E-8-8
Sample Date					11/3/1999	11/4/1999	12/3/1999	12/6/1999	12/7/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-66F	FTMM02-M2-B-66G	FTMM02-M2-B-66H	FTMM02-M2-B-67	FTMM02-M2-B-67A
Sample ID					FTMM02-SS-M2-B-66F-4-4.5	FTMM02-SS-M2-B-66G-6.7-7.2	FTMM02-SS-M2-B-66H-5-5.5	FTMM02-SS-M2-B-67-6.5-6.5	FTMM02-SS-M2-B-67A-7.5-7.5
Sample Date					1/10/2000	1/11/2000	1/12/2000	3/30/1999	11/3/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	**2,000**	**1,700**	**3,200**	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	**6,000**	ND	ND	**510**	ND
Chloroform	320	1,400	0.061	-	**510**	**500**	**850**	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	**400 J**	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	**1,000**	**880 J**	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	**840**	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	**550**	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-66F	FTMM02-M2-B-66G	FTMM02-M2-B-66H	FTMM02-M2-B-67	FTMM02-M2-B-67A
Sample ID					FTMM02-SS-M2-B-66F-4-4.5	FTMM02-SS-M2-B-66G-6.7-7.2	FTMM02-SS-M2-B-66H-5-5.5	FTMM02-SS-M2-B-67-6.5-6.5	FTMM02-SS-M2-B-67A-7.5-7.5
Sample Date					1/10/2000	1/11/2000	1/12/2000	3/30/1999	11/3/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-67B	FTMM02-M2-B-67C	FTMM02-M2-B-67D	FTMM02-M2-B-67F	
Sample ID					FTMM02-SS-M2-B-67B-7.5-7.5	FTMM02-SS-M2-B-67C-8-8	FTMM02-SS-M2-B-67D-8-8	FTMM02-SS-M2-B-67F-2-2.5	FTMM02-SS-M2-B-67F-4-4.5
Sample Date					11/4/1999	12/3/1999	12/6/1999	1/10/2000	1/10/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	**2,400**	**1,700**
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	**490**	**480**
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	**1,200**	**990**
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-67B	FTMM02-M2-B-67C	FTMM02-M2-B-67D	FTMM02-M2-B-67F	
Sample ID					FTMM02-SS-M2-B-67B-7.5-7.5	FTMM02-SS-M2-B-67C-8-8	FTMM02-SS-M2-B-67D-8-8	FTMM02-SS-M2-B-67F-2-2.5	FTMM02-SS-M2-B-67F-4-4.5
Sample Date					11/4/1999	12/3/1999	12/6/1999	1/10/2000	1/10/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-67G	FTMM02-M2-B-67H	FTMM02-M2-B-68	FTMM02-M2-B-68A	FTMM02-M2-B-68B
Sample ID					FTMM02-SS-M2-B-67G-6.5-7	FTMM02-SS-M2-B-67H-5-5.5	FTMM02-SS-M2-B-68-4-4	FTMM02-SS-M2-B-68A-7.5-7.5	FTMM02-SS-M2-B-68B-7.5-7.5
Sample Date					1/11/2000	1/12/2000	3/30/1999	11/3/1999	11/4/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	**2,000**	**4,900**	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	**510**	**1,400**	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	**960**	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-67G	FTMM02-M2-B-67H	FTMM02-M2-B-68	FTMM02-M2-B-68A	FTMM02-M2-B-68B
Sample ID					FTMM02-SS-M2-B-67G-6.5-7	FTMM02-SS-M2-B-67H-5-5.5	FTMM02-SS-M2-B-68-4-4	FTMM02-SS-M2-B-68A-7.5-7.5	FTMM02-SS-M2-B-68B-7.5-7.5
Sample Date					1/11/2000	1/12/2000	3/30/1999	11/3/1999	11/4/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-68C	FTMM02-M2-B-68D	FTMM02-M2-B-68F	FTMM02-M2-B-68G	FTMM02-M2-B-69
Sample ID					FTMM02-SS-M2-B-68C-8-8	FTMM02-SS-M2-B-68D-8-8	FTMM02-SS-M2-B-68F-6.5-7	FTMM02-SS-M2-B-68G-5-5.5	FTMM02-SS-M2-B-69-4-4
Sample Date					12/3/1999	12/7/1999	1/11/2000	1/12/2000	3/30/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	**5,300**	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	**5,000**	ND	ND
Chloroform	320	1,400	0.061	-	ND	**550**	**1,200**	**860**	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	**2,400**	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	**3,000**	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-68C	FTMM02-M2-B-68D	FTMM02-M2-B-68F	FTMM02-M2-B-68G	FTMM02-M2-B-69
Sample ID					FTMM02-SS-M2-B-68C-8-8	FTMM02-SS-M2-B-68D-8-8	FTMM02-SS-M2-B-68F-6.5-7	FTMM02-SS-M2-B-68G-5-5.5	FTMM02-SS-M2-B-69-4-4
Sample Date					12/3/1999	12/7/1999	1/11/2000	1/12/2000	3/30/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-69A	FTMM02-M2-B-69B	FTMM02-M2-B-69F	FTMM02-M2-B-69G	FTMM02-M2-B-6A
Sample ID					FTMM02-SS-M2-B-69A-7.5-7.5	FTMM02-SS-M2-B-69B-7.5-7.5	FTMM02-SS-M2-B-69F-6.5-7	FTMM02-SS-M2-B-69G-5-5.5	FTMM02-SS-M2-B-6A-0-0.5
Sample Date					11/3/1999	11/4/1999	1/11/2000	1/12/2000	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	**3,000**	ND	NA
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	NA
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	NA
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	NA
Chloroform	320	1,400	0.061	-	ND	ND	**530**	**870**	NA
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	**1,200**	ND	NA
Methylene chloride	35,000	320,000	2.7	-	ND	ND	**1,100**	ND	NA
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	NA
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	**350 J**	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-69A	FTMM02-M2-B-69B	FTMM02-M2-B-69F	FTMM02-M2-B-69G	FTMM02-M2-B-6A
Sample ID					FTMM02-SS-M2-B-69A-7.5-7.5	FTMM02-SS-M2-B-69B-7.5-7.5	FTMM02-SS-M2-B-69F-6.5-7	FTMM02-SS-M2-B-69G-5-5.5	FTMM02-SS-M2-B-6A-0-0.5
Sample Date					11/3/1999	11/4/1999	1/11/2000	1/12/2000	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	ND
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	ND
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	ND
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6A				
Sample ID					FTMM02-SS-M2-B-6A-1-1.5	FTMM02-SS-M2-B-6A-2-2.5	FTMM02-SS-M2-B-6A-3-3.5	FTMM02-SS-M2-B-6A-4-4.5	FTMM02-SS-M2-B-6A-5-5.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6A				
Sample ID					FTMM02-SS-M2-B-6A-1-1.5	FTMM02-SS-M2-B-6A-2-2.5	FTMM02-SS-M2-B-6A-3-3.5	FTMM02-SS-M2-B-6A-4-4.5	FTMM02-SS-M2-B-6A-5-5.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6A		
Sample ID					FTMM02-SS-M2-B-6A-6-6.5	FTMM02-SS-M2-B-6A-7.5-8	FTMM02-SS-M2-B-6A-7-7.5
Sample Date					10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)							
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA
TIC VOCs (µg/kg)							
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)							
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA
TIC SVOCs (µg/kg)							
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6A		
Sample ID					FTMM02-SS-M2-B-6A-6-6.5	FTMM02-SS-M2-B-6A-7.5-8	FTMM02-SS-M2-B-6A-7-7.5
Sample Date					10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)							
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA
Pesticides & PCBs (mg/kg)							
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND
Inorganics (mg/kg)							
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6B				
Sample ID					FTMM02-SS-M2-B-6B-0-0.5	FTMM02-SS-M2-B-6B-1-1.5	FTMM02-SS-M2-B-6B-2-2.5	FTMM02-SS-M2-B-6B-3-3.5	FTMM02-SS-M2-B-6B-4-4.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6B				
Sample ID					FTMM02-SS-M2-B-6B-0-0.5	FTMM02-SS-M2-B-6B-1-1.5	FTMM02-SS-M2-B-6B-2-2.5	FTMM02-SS-M2-B-6B-3-3.5	FTMM02-SS-M2-B-6B-4-4.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6B			FTMM02-M2-B-7	
Sample ID					FTMM02-SS-M2-B-6B-5-5.5	FTMM02-SS-M2-B-6B-6-6.5	FTMM02-SS-M2-B-6B-7-7.5	FTMM02-SS-M2-B-7-0-0.5	FTMM02-SS-M2-B-7-1-1.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	2/19/1999	2/19/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-6B			FTMM02-M2-B-7	
Sample ID					FTMM02-SS-M2-B-6B-5-5.5	FTMM02-SS-M2-B-6B-6-6.5	FTMM02-SS-M2-B-6B-7-7.5	FTMM02-SS-M2-B-7-0-0.5	FTMM02-SS-M2-B-7-1-1.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	2/19/1999	2/19/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	**0.108**	**0.152**
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	**0.047**	**0.014**
PCB (total)	0.24	1	0.03	-	ND	ND	ND	**0.155**	**0.166**
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-7				FTMM02-M2-B-70
Sample ID					FTMM02-SS-M2-B-7-2-2.5	FTMM02-SS-M2-B-7-3-3.5	FTMM02-SS-M2-B-7-4-4.5	FTMM02-SS-M2-B-7-5-5.5	FTMM02-SS-M2-B-70-6.5-6.5
Sample Date					2/19/1999	2/19/1999	2/19/1999	2/19/1999	3/30/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	ND
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	ND
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	ND
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	ND
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	ND
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	ND
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	ND
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	ND
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-7				FTMM02-M2-B-70
Sample ID					FTMM02-SS-M2-B-7-2-2.5	FTMM02-SS-M2-B-7-3-3.5	FTMM02-SS-M2-B-7-4-4.5	FTMM02-SS-M2-B-7-5-5.5	FTMM02-SS-M2-B-70-6.5-6.5
Sample Date					2/19/1999	2/19/1999	2/19/1999	2/19/1999	3/30/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	**0.115**	**0.153**	**0.046**	NA
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	NA
Aroclor-1260	0.24	1	0.027	-	**0.208**	**0.038**	**0.042**	**0.031**	NA
PCB (total)	0.24	1	0.03	-	**0.208**	**0.153**	**0.195**	**0.077**	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**USEPA RSL Residential (HQ=0.1) (1)**	**USEPA RSL Industrial (HQ=0.1)**	**USEPA Impact to Ground Water (Risk Based SSL)**	**Weston 1995 Background (Main Post)**	FTMM02-M2-B-71	FTMM02-M2-B-72	FTMM02-M2-B-73	FTMM02-M2-B-74	FTMM02-M2-B-75
Sample ID					FTMM02-SS-M2-B-71-6-6	FTMM02-SS-M2-B-72-5.5-5.5	FTMM02-SS-M2-B-73-5.5-5.5	FTMM02-SS-M2-B-74-6-6	FTMM02-SS-M2-B-75-6-6
Sample Date					4/6/1999	4/6/1999	4/6/1999	4/9/1999	4/9/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	**600**	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	**680 J**	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	**420**	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	**2,750**	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-71	FTMM02-M2-B-72	FTMM02-M2-B-73	FTMM02-M2-B-74	FTMM02-M2-B-75
Sample ID					FTMM02-SS-M2-B-71-6-6	FTMM02-SS-M2-B-72-5.5-5.5	FTMM02-SS-M2-B-73-5.5-5.5	FTMM02-SS-M2-B-74-6-6	FTMM02-SS-M2-B-75-6-6
Sample Date					4/6/1999	4/6/1999	4/6/1999	4/9/1999	4/9/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-76		FTMM02-M2-B-77	FTMM02-M2-B-78	FTMM02-M2-B-79
Sample ID					FTMM02-SS-M2-B-76-4-4	FTMM02-SS-M2-B-76-4-4-Dup	FTMM02-SS-M2-B-77-6.5-6.5	FTMM02-SS-M2-B-78-6.5-6.5	FTMM02-SS-M2-B-79-3.5-3.5
Sample Date					4/9/1999	4/9/1999	4/13/1999	4/13/1999	4/13/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-76		FTMM02-M2-B-77	FTMM02-M2-B-78	FTMM02-M2-B-79
Sample ID					FTMM02-SS-M2-B-76-4-4	FTMM02-SS-M2-B-76-4-4-Dup	FTMM02-SS-M2-B-77-6.5-6.5	FTMM02-SS-M2-B-78-6.5-6.5	FTMM02-SS-M2-B-79-3.5-3.5
Sample Date					4/9/1999	4/9/1999	4/13/1999	4/13/1999	4/13/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-8					
Sample ID					FTMM02-SS-M2-B-8-0-0.5	FTMM02-SS-M2-B-8-1-1.5	FTMM02-SS-M2-B-8-2-2.5	FTMM02-SS-M2-B-8-3-3.5	FTMM02-SS-M2-B-8-4-4.5	FTMM02-SS-M2-B-8-5-5.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-8					
Sample ID					FTMM02-SS-M2-B-8-0-0.5	FTMM02-SS-M2-B-8-1-1.5	FTMM02-SS-M2-B-8-2-2.5	FTMM02-SS-M2-B-8-3-3.5	FTMM02-SS-M2-B-8-4-4.5	FTMM02-SS-M2-B-8-5-5.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	**0.047**	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.048**	ND	ND	ND	ND	**0.296**
PCB (total)	0.24	1	0.03	-	**0.095**	ND	ND	ND	ND	**0.296**
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-80	FTMM02-M2-B-81	FTMM02-M2-B-82	FTMM02-M2-B-83	FTMM02-M2-B-84
Sample ID					FTMM02-SS-M2-B-80-4.5-4.5	FTMM02-SS-M2-B-81-5.5-5.5	FTMM02-SS-M2-B-82-3.8-3.8	FTMM02-SS-M2-B-83-7.5-7.5	FTMM02-SS-M2-B-84-7.5-7.5
Sample Date					4/13/1999	4/14/1999	4/14/1999	4/14/1999	4/14/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	**620**
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	**410 J**
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	ND	ND	**1,600**
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	**2,000**
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	**2,500**
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-80	FTMM02-M2-B-81	FTMM02-M2-B-82	FTMM02-M2-B-83	FTMM02-M2-B-84
Sample ID					FTMM02-SS-M2-B-80-4.5-4.5	FTMM02-SS-M2-B-81-5.5-5.5	FTMM02-SS-M2-B-82-3.8-3.8	FTMM02-SS-M2-B-83-7.5-7.5	FTMM02-SS-M2-B-84-7.5-7.5
Sample Date					4/13/1999	4/14/1999	4/14/1999	4/14/1999	4/14/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-85	FTMM02-M2-B-86	FTMM02-M2-B-87	FTMM02-M2-B-88	FTMM02-M2-B-89
Sample ID					FTMM02-SS-M2-B-85-7.5-7.5	FTMM02-SS-M2-B-86-7.5-7.5	FTMM02-SS-M2-B-87-5-5	FTMM02-SS-M2-B-88-3.8-3.8	FTMM02-SS-M2-B-89-6-6
Sample Date					4/14/1999	4/14/1999	4/16/1999	4/16/1999	4/16/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	**680**	**470**	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	**1,400**	ND	**1,500**
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-85	FTMM02-M2-B-86	FTMM02-M2-B-87	FTMM02-M2-B-88	FTMM02-M2-B-89
Sample ID					FTMM02-SS-M2-B-85-7.5-7.5	FTMM02-SS-M2-B-86-7.5-7.5	FTMM02-SS-M2-B-87-5-5	FTMM02-SS-M2-B-88-3.8-3.8	FTMM02-SS-M2-B-89-6-6
Sample Date					4/14/1999	4/14/1999	4/16/1999	4/16/1999	4/16/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-9					
Sample ID					FTMM02-SS-M2-B-9-0-0.5	FTMM02-SS-M2-B-9-1-1.5	FTMM02-SS-M2-B-9-2-2.5	FTMM02-SS-M2-B-9-3-3.5	FTMM02-SS-M2-B-9-4-4.5	FTMM02-SS-M2-B-9-5-5.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Volatile Organic Compounds (µg/kg)										
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)										
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-9					
Sample ID					FTMM02-SS-M2-B-9-0-0.5	FTMM02-SS-M2-B-9-1-1.5	FTMM02-SS-M2-B-9-2-2.5	FTMM02-SS-M2-B-9-3-3.5	FTMM02-SS-M2-B-9-4-4.5	FTMM02-SS-M2-B-9-5-5.5
Sample Date					2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999	2/22/1999
Pesticides & PCBs (mg/kg)										
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)										
Aroclor-1016	0.4	5.2	0.013	-	**0.465**	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.231**	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	**0.696**	ND	ND	ND	ND	ND
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [1]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-90	FTMM02-M2-B-91	FTMM02-M2-B-92	FTMM02-M2-B-93	FTMM02-M2-B-94
Sample ID					FTMM02-SS-M2-B-90-6-6	FTMM02-SS-M2-B-91-6-6	FTMM02-SS-M2-B-92-7.5-7.5	FTMM02-SS-M2-B-93-6-6	FTMM02-SS-M2-B-94-6-6
Sample Date					4/16/1999	4/16/1999	4/21/1999	4/21/1999	4/21/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	ND	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	**1,400**	**1,500**	ND	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) (1)	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-90	FTMM02-M2-B-91	FTMM02-M2-B-92	FTMM02-M2-B-93	FTMM02-M2-B-94
Sample ID					FTMM02-SS-M2-B-90-6-6	FTMM02-SS-M2-B-91-6-6	FTMM02-SS-M2-B-92-7.5-7.5	FTMM02-SS-M2-B-93-6-6	FTMM02-SS-M2-B-94-6-6
Sample Date					4/16/1999	4/16/1999	4/21/1999	4/21/1999	4/21/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-95	FTMM02-M2-B-96	FTMM02-M2-B-97	FTMM02-M2-B-98	FTMM02-M2-B-99
Sample ID					FTMM02-SS-M2-B-95-7.5-7.5	FTMM02-SS-M2-B-96-7.5-7.5	FTMM02-SS-M2-B-97-6.5-6.5	FTMM02-SS-M2-B-98-6.5-6.5	FTMM02-SS-M2-B-99-5.5-5.5
Sample Date					4/21/1999	4/21/1999	4/26/1999	4/26/1999	4/26/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	ND	ND	ND	ND	ND
Benzene	1,200	5,100	0.23	-	ND	ND	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	ND	ND	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	ND	**2,500**	ND	ND	ND
Chloroform	320	1,400	0.061	-	ND	ND	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	ND	ND	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	ND	ND	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	ND	ND	**1,300**	ND	ND
Toluene	490,000	4,700,000	76	-	ND	ND	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	ND	ND	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-95	FTMM02-M2-B-96	FTMM02-M2-B-97	FTMM02-M2-B-98	FTMM02-M2-B-99
Sample ID					FTMM02-SS-M2-B-95-7.5-7.5	FTMM02-SS-M2-B-96-7.5-7.5	FTMM02-SS-M2-B-97-6.5-6.5	FTMM02-SS-M2-B-98-6.5-6.5	FTMM02-SS-M2-B-99-5.5-5.5
Sample Date					4/21/1999	4/21/1999	4/26/1999	4/26/1999	4/26/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	NA	NA	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	NA	NA	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	NA	NA	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	NA	NA	NA	NA	NA
PCB (total)	0.24	1	0.03	-	NA	NA	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-9A				
Sample ID					FTMM02-SS-M2-B-9A-0-0.5	FTMM02-SS-M2-B-9A-1-1.5	FTMM02-SS-M2-B-9A-2-2.5	FTMM02-SS-M2-B-9A-3-3.5	FTMM02-SS-M2-B-9A-4-4.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-9A				
Sample ID					FTMM02-SS-M2-B-9A-0-0.5	FTMM02-SS-M2-B-9A-1-1.5	FTMM02-SS-M2-B-9A-2-2.5	FTMM02-SS-M2-B-9A-3-3.5	FTMM02-SS-M2-B-9A-4-4.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	10/27/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	**0.262**	**0.241**	**0.087**	ND	ND
PCB (total)	0.24	1	0.03	-	**0.262**	**0.241**	**0.087**	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-9A				FTMM02-M2-B-9B
Sample ID					FTMM02-SS-M2-B-9A-5-5.5	FTMM02-SS-M2-B-9A-6-6.5	FTMM02-SS-M2-B-9A-7.5-8	FTMM02-SS-M2-B-9A-7-7.5	FTMM02-SS-M2-B-9B-0-0.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	11/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-9A				FTMM02-M2-B-9B
Sample ID					FTMM02-SS-M2-B-9A-5-5.5	FTMM02-SS-M2-B-9A-6-6.5	FTMM02-SS-M2-B-9A-7.5-8	FTMM02-SS-M2-B-9A-7-7.5	FTMM02-SS-M2-B-9B-0-0.5
Sample Date					10/27/1999	10/27/1999	10/27/1999	10/27/1999	11/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-9B				
Sample ID					FTMM02-SS-M2-B-9B-1-1.5	FTMM02-SS-M2-B-9B-2-2.5	FTMM02-SS-M2-B-9B-3-3.5	FTMM02-SS-M2-B-9B-4-4.5	FTMM02-SS-M2-B-9B-5-5.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	NA	NA	NA
Benzene	1,200	5,100	0.23	-	NA	NA	NA	NA	NA
Carbon disulfide	77,000	350,000	24	-	NA	NA	NA	NA	NA
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	NA	NA	NA
Chloroform	320	1,400	0.061	-	NA	NA	NA	NA	NA
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	NA	NA	NA
Methylene chloride	35,000	320,000	2.7	-	NA	NA	NA	NA	NA
Toluene	490,000	4,700,000	76	-	NA	NA	NA	NA	NA
Total Xylenes	58,000	250,000	19	-	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-9B				
Sample ID					FTMM02-SS-M2-B-9B-1-1.5	FTMM02-SS-M2-B-9B-2-2.5	FTMM02-SS-M2-B-9B-3-3.5	FTMM02-SS-M2-B-9B-4-4.5	FTMM02-SS-M2-B-9B-5-5.5
Sample Date					11/23/1999	11/23/1999	11/23/1999	11/23/1999	11/23/1999
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	ND	ND	ND
Aroclor-1242	0.24	1	0.0061	-	ND	ND	ND	ND	ND
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	ND	ND	ND
Aroclor-1260	0.24	1	0.027	-	ND	ND	ND	ND	ND
PCB (total)	0.24	1	0.03	-	ND	ND	ND	ND	ND
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-9B		FTMM02-M2-B-H68		FTMM02-M2-B-H69
Sample ID					FTMM02-SS-M2-B-9B-6-6.5	FTMM02-SS-M2-B-9B-7-7.5	FTMM02-SS-M2-B-H68-1.5-2	FTMM02-SS-M2-B-H68-5-5.5	FTMM02-SS-M2-B-H69-5-5.5
Sample Date					11/23/1999	11/23/1999	1/13/2000	1/13/2000	1/13/2000
Volatile Organic Compounds (µg/kg)									
Acetone	6,100,000	67,000,000	290	-	NA	NA	ND	ND	ND
Benzene	1,200	5,100	0.23	-	NA	NA	ND	ND	ND
Carbon disulfide	77,000	350,000	24	-	NA	NA	ND	ND	ND
Chlorobenzene	28,000	130,000	5.3	-	NA	NA	ND	ND	ND
Chloroform	320	1,400	0.061	-	NA	NA	ND	ND	ND
Ethyl benzene	5,800	25,000	1.7	-	NA	NA	ND	ND	ND
Methyl ethyl ketone	2,700,000	19,000,000	120	-	NA	NA	ND	ND	ND
Methylene chloride	35,000	320,000	2.7	-	NA	NA	ND	ND	ND
Toluene	490,000	4,700,000	76	-	NA	NA	ND	ND	ND
Total Xylenes	58,000	250,000	19	-	NA	NA	ND	ND	ND
TIC VOCs (µg/kg)									
Total TIC, Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (µg/kg)									
2-Methylnaphthalene	23,000	300,000	19	-	NA	NA	NA	NA	NA
Acenaphthene	350,000	4,500,000	550	-	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Anthracene	1,700,000	23,000,000	5,800	-	NA	NA	NA	NA	NA
Azobenzene	5,600	26,000	0.92	-	NA	NA	NA	NA	NA
Benzo(a)anthracene	150	2,900	12	-	NA	NA	NA	NA	NA
Benzo(a)pyrene	15	290	4	-	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	150	2,900	41	-	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	1,500	29,000	400	-	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	38,000	160,000	1,300	-	NA	NA	NA	NA	NA
Chrysene	15,000	290,000	1,200	-	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	15	290	13	-	NA	NA	NA	NA	NA
Dibenzofuran	7,200	100,000	15	-	NA	NA	NA	NA	NA
Diethyl phthalate	4,900,000	66,000,000	610	-	NA	NA	NA	NA	NA
Di-n-butylphthalate	620,000	8,200,000	230	-	NA	NA	NA	NA	NA
Fluoranthene	230,000	3,000,000	8,900	-	NA	NA	NA	NA	NA
Fluorene	230,000	3,000,000	540	-	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	150	2,900	240	-	NA	NA	NA	NA	NA
Naphthalene	3,800	17,000	0.54	-	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA
Pyrene	170,000	2,300,000	1,300	-	NA	NA	NA	NA	NA
TIC SVOCs (µg/kg)									
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA RSL Residential (HQ=0.1) [(1)]	USEPA RSL Industrial (HQ=0.1)	USEPA Impact to Ground Water (Risk Based SSL)	Weston 1995 Background (Main Post)	FTMM02-M2-B-9B		FTMM02-M2-B-H68		FTMM02-M2-B-H69
Sample ID					FTMM02-SS-M2-B-9B-6-6.5	FTMM02-SS-M2-B-9B-7-7.5	FTMM02-SS-M2-B-H68-1.5-2	FTMM02-SS-M2-B-H68-5-5.5	FTMM02-SS-M2-B-H69-5-5.5
Sample Date					11/23/1999	11/23/1999	1/13/2000	1/13/2000	1/13/2000
Pesticides & PCBs (mg/kg)									
4,4'-DDD	2.2	9.6	0.0072	-	NA	NA	NA	NA	NA
4,4'-DDE	1.6	6.8	0.054	-	NA	NA	NA	NA	NA
4,4'-DDT	1.9	8.6	0.077	-	NA	NA	NA	NA	NA
Alpha-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Dieldrin	0.033	0.14	0.000069	-	NA	NA	NA	NA	NA
Endrin	1.8	25	0.0092	-	NA	NA	NA	NA	NA
Gamma-BHC/Lindane	0.56	2.5	0.00024	-	NA	NA	NA	NA	NA
Gamma-Chlordane	1.8	8	0.015	-	NA	NA	NA	NA	NA
Pesticides & PCBs (mg/kg)									
Aroclor-1016	0.4	5.2	0.013	-	ND	ND	NA	NA	NA
Aroclor-1242	0.24	1	0.0061	-	ND	ND	NA	NA	NA
Aroclor-1248	0.24	1	0.006	-	NA	NA	NA	NA	NA
Aroclor-1254	0.11	1	0.01	-	ND	ND	NA	NA	NA
Aroclor-1260	0.24	1	0.027	-	ND	ND	NA	NA	NA
PCB (total)	0.24	1	0.03	-	ND	ND	NA	NA	NA
Inorganics (mg/kg)									
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA
Arsenic	0.67	3	0.0015	22.9	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA
Cadmium	7	98	0.069	ND	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA

TABLE 4.2
SOIL SAMPLING SUMMARY RESULTS - COMPARISON TO USEPA STANDARDS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Footnote:
1) All historical data collected prior to 2013 are reported as provided by others.
2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.
3) NLE = no limit established.
4) ND = not detected in any background sample, no background concentration available.
5) Bold chemical dectection

6) Chemical result qualifiers are assigned by the laboratory and is typically evaluated and modified (if necessary) by during data validation.

[blank] = detect, i.e. detected chemical result value.
B = Compound detected in the sample and its associated blank sample.
R = Rejected, data validation rejected the results.
U = non-detect, i.e. not detected equal to or above this value.
U-DL = Elevated sample detection limit due to difficult sample matrix.
U-ND = Analyte not detected in sample, but no detection or reporting limit provided.
J = estimated (detect or non-detect) value.
E (or ER) = Estimated result.
D = Results from dilution of sample.
J-DL = Elevated sample detection limit due to difficult sample matrix.
JN = Tentatively identified compound, estimated concentration.

7) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.
- Cell Shade values represent a result that is above the USEPA 2014-05 RSL Residential Soil (HQ=0.1). ####
  Chromium action level is for trivalent chromium
  m+p-xylenes action level is the most conservative values for the two isomers
  Endrin action level is for Endrin aldehyde
  Nickel, thallium, and manganese are for nickel soluble salts, thallium soluble salts, and manganese (non-diet)
  4,4'-DDD and 4,4'-DDT are for total DDD and total DDT
  No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.
- Cell Shade values represent a result that is above the USEPA 2014-05 RSL Industrial Soil (HQ=0.1). ###
  Chromium action level is for trivalent chromium
  m+p-xylenes action level is the most conservative values for the two isomers
  Endrin action level is for Endrin aldehyde
  Nickel, thallium, and manganese are for nickel soluble salts, thallium soluble salts, and manganese (non-diet)
  4,4'-DDD and 4,4'-DDT are for total DDD and total DDT
  No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.
- Cell Shade values represent a result that is above the USEPA 2014-05 RSL Protect GW Risk-Based (HQ=0.1). ###
  Chromium action level is for total chromium
  m+p-xylenes action level is for total xylenes
  Endrin action level is for Endrin aldehyde
  Nickel, thallium, and manganese are for nickel soluble salts, thallium soluble salts, and manganese (non-diet)
  4,4'-DDD and 4,4'-DDT are for total DDD and total DDT
  No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.
- Cell Style values represent a result that is above the Weston 1995 Background (Main Post). ###
  n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.
  Dash (-) = only background concentrations for metals are being used as comparison criteria.
- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2014-05. ###
- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2014-05. ###

8) Criteria action level source document and web address.
- The 2014-05 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1) - 5/31/2014 (Last revised)
  http://www.epa.gov/region9/superfund/prg/
- The 2014-05 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1) - 5/31/2014 (Last revised)
  http://www.epa.gov/region9/superfund/prg/
- The 2014-05 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1) - 5/31/2014 (Last revised)
  http://www.epa.gov/region9/superfund/prg/
- The Weston 1995 Background (Main Post) refers to the FTMM reports.
  NA

TABLE 4.3
SOIL SAMPLING SUMMARY OF EXCEEDANCES
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

							Number of Exceedances								
							Residential Direct Contact		Non-Residential Direct Contact		Impact to Groundwater				
Analyte	Maximum Detected Concentration		Location of Maximum Concentration	Sample Date	Number of Samples	Number of Detections	NJ Residential Direct Contact SRS	2014-05 USEPA RSL Residential Soil (HQ=0.1)	NJ Non-Residential Direct Contact SRS	2014-05 USEPA RSL Industrial Soil (HQ=0.1)	NJ Impact to GW Soil Screening Level	2014-05 USEPA RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	Evaluated as COPC in Risk Assessment	Rationale
Volatile Organic Compounds (µg/kg)															
Acetone	10,000		FTMM02-M2-B-117H	1/5/2000	417	49	0	0	NLE	0	0	49	n/a	No	Less than RSL
Benzene	680		FTMM02-M2-B-85	4/14/1999	215	6	0	0	0	0	6	6	n/a	No	Less than RSL
Carbon disulfide	1500		FTMM02-M2-B-56	3/18/1999	215	2	0	0	0	0	0	2	n/a	No	Less than RSL
Chlorobenzene	6000		FTMM02-M2-B-66F	1/10/2000	417	19	0	0	0	0	17	19	n/a	No	Less than RSL
Chloroform	2500		FTMM02-M2-B-64H	1/12/2000	215	71	35	69	1	10	63	71	n/a	Yes	Exceeds Residential RSL at 69 locations
Ethyl benzene	1100		FTMM02-M2-B-114E	12/2/1999	417	5	0	0	0	0	0	5	n/a	No	Less than RSL
Methyl ethyl ketone	7600		FTMM02-M2-B-114F	1/3/2000	215	48	0	0	0	0	47	48	n/a	No	Less than RSL
Methylene chloride	8,100		FTMM02-B-31	3/8/1999	417	60	0	0	0	0	60	60	n/a	No	Less than RSL
Toluene	2000		FTMM02-M2-B-84	4/14/1999	417	5	0	0	0	0	0	5	n/a	No	Less than RSL
Total Xylenes	4000		FTMM02-M2-B-114E	12/2/1999	215	6	0	0	0	0	0	6	n/a	No	Less than RSL
TIC VOCs (µg/kg)															
Total TIC, Volatile	15,000		FTMM02-B-50	3/17/1999	202	78	NLE	NLE	NLE	NLE	NLE	NLE	n/a	No	No EPA RSL
Semivolatile Organic Compounds (µg/kg)															
2-Methylnaphthalene	160	J	FTMM02-B-131	5/10/1999	203	1	0	0	0	0	0	1	n/a	No	Less than RSL
Acenaphthene	580	J	FTMM02-B-131	5/10/1999	202	5	0	0	0	0	0	1	n/a	No	Less than RSL
Acenaphthylene	1,500		FTMM02-B-100 FTMM02-B-82	6/1/1999 4/14/1999	203	7	NLE	NLE	0	NLE	NLE	NLE	n/a	No	No RSL
Anthracene	3,400		FTMM02-B-144	5/11/1999	202	18	0	0	0	0	0	0	n/a	No	Less than RSL
Azobenzene	99	J	FTMM02-B-94	4/21/1999	202	1	NLE	0	NLE	0	NLE	1	n/a	No	Less than RSL
Benzo(a)anthracene	9,500		FTMM02-B-100 FTMM02-B-82	6/1/1999 4/14/1999	202	84	15	58	5	2	12	84	n/a	Yes	Exceeds Residential RSL at 58 locations
Benzo(a)pyrene	10,000	D D	FTMM02-B-100 FTMM02-B-82	6/1/1999 4/14/1999	202	75	39	75	39	27	39	75	n/a	Yes	Exceeds Residential RSL at 75 locations
Benzo(b)fluoranthene	13,000	D D	FTMM02-B-100 FTMM02-B-82	6/1/1999 4/14/1999	202	77	13	56	4	3	4	77	n/a	Yes	Exceeds Residential RSL at 56 locations
Benzo(ghi)perylene	2,700		FTMM02-B-100 FTMM02-B-82	6/1/1999 4/14/1999	202	43	0	NLE	0	NLE	NLE	NLE	n/a	No	No RSL
Benzo(k)fluoranthene	11,000	D D	FTMM02-B-100 FTMM02-B-82	6/1/1999 4/14/1999	202	76	2	4	0	0	0	18	n/a	Yes	Exceeds Residential RSL at 4 locations
Bis(2-Ethylhexyl)phthalate	2000	B	FTMM02-B-97	4/26/1999	202	103	0	0	0	0	0	1	n/a	No	Less than RSL
Chrysene	14,000	D D	FTMM02-B-100 FTMM02-B-82	6/1/1999 4/14/1999	202	119	0	0	0	0	0	12	n/a	No	Less than RSL
Dibenz(a,h)anthracene	2,000		FTMM02-B-100 FTMM02-B-82	6/1/1999 4/14/1999	202	10	9	10	9	5	3	10	n/a	Yes	Exceeds Residential RSL at 10 locations
Dibenzofuran	310	J	FTMM02-B-131	5/10/1999	202	2	NLE	0	NLE	0	NLE	2	n/a	No	Less than RSL
Diethyl phthalate	320	JB	FTMM02-B-31	3/8/1999	202	7	0	0	0	0	0	0	n/a	No	Less than RSL
Di-n-butylphthalate	22,000	BD	FTMM02-B-85	4/14/1999	202	188	0	0	0	0	0	138	n/a	No	Less than RSL
Fluoranthene	6,200		FTMM02-B-152	5/11/1999	202	121	0	0	0	0	0	0	n/a	No	Less than RSL
Fluorene	500	J	FTMM02-B-131	5/10/1999	202	5	0	0	0	0	0	0	n/a	No	Less than RSL
Indeno(1,2,3-cd)pyrene	3,300		FTMM02-B-100 FTMM02-B-82	6/1/1999 4/14/1999	202	38	8	27	2	2	0	18	n/a	Yes	Exceeds Residential RSL at 27 locations
Naphthalene	640	J	FTMM02-B-31	3/8/1999	203	2	0	0	0	0	0	2	n/a	No	Less than RSL
Phenanthrene	4,100		FTMM02-B-152	5/11/1999	202	75	NLE	NLE	0	NLE	NLE	NLE	n/a	No	No RSL
Pyrene	12,000	D D	FTMM02-B-100 FTMM02-B-82	6/1/1999 4/14/1999	202	129	0	0	0	0	0	12	n/a	No	Less than RSL
TIC SVOCs (µg/kg)															
Total TIC, Semi-Volatile	165,430		FTMM02-B-210	6/2/1999	203	196	NLE	NLE	NLE	NLE	NLE	NLE	n/a	No	No RSL
Pesticides & PCBs (mg/kg)															
4,4'-DDD	1.75		FTMM02-B-142A	5/11/1999	202	153	0	0	0	0	0	153	n/a	No	Less than RSL
4,4'-DDE	3.705		FTMM02-B-142A	5/11/1999	202	174	1	1	0	0	0	61	n/a	Yes	Exceeds Residential RSL at 1 location
4,4'-DDT	6.811		FTMM02-B-142A	5/11/1999	202	98	1	1	0	0	0	42	n/a	Yes	Exceeds Residential RSL at 1 location
Alpha-Chlordane	0.048		FTMM02-B-106	4/27/1999	202	27	NLE	0	0	0	NLE	20	n/a	No	Less than RSL
Dieldrin	0.091		FTMM02-B-43	3/11/1999	202	18	3	4	0	0	18	18	n/a	Yes	Exceeds Residential RSL at 4 locations
Endrin	0.019		FTMM02-B-47	3/16/1999	202	1	0	0	0	0	0	1	n/a	No	Less than RSL
Gamma-BHC/Lindane	0.009		FTMM02-B-47	3/16/1999	202	1	0	0	0	0	1	1	n/a	No	Less than RSL
Gamma-Chlordane	0.046		FTMM02-B-106	4/27/1999	202	30	0	0	0	0	NLE	19	n/a	No	Less than RSL
Pesticides & PCBs (mg/kg)															
Aroclor-1016	394.167		FTMM02-M2-B-18	3/1/1999	647	62	42	36	23	10	NLE	62	n/a	Yes	Exceeds Residential RSL at 36 locations
Aroclor-1242	805.055		FTMM02-M2-B-24C	1/24/2000	849	29	29	29	22	22	NLE	29	n/a	Yes	Exceeds Residential RSL at 29 locations
Aroclor-1248	3.082		FTMM02-B-165	5/14/1999	202	1	1	1	1	1	NLE	1	n/a	Yes	Exceeds Residential RSL at 1 location
Aroclor-1254	42.494		FTMM02-M2-B-15A	10/27/1999	849	20	20	20	11	11	NLE	20	n/a	Yes	Exceeds Residential RSL at 20 locations
Aroclor-1260	10.431		FTMM02-M2-B-4	2/17/1999	849	91	38	33	12	12	NLE	86	n/a	Yes	Exceeds Residential RSL at 33 locations
PCB (total)	805.055		FTMM02-M2-B-24C	1/24/2000	647	136	105	102	60	60	105	132	n/a	Yes	Exceeds Residential RSL at 102 locations

TABLE 4.3
SOIL SAMPLING SUMMARY OF EXCEEDANCES
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

							Number of Exceedances								
						Residential Direct Contact		Non-Residential Direct Contact		Impact to Groundwater					
Analyte	Maximum Detected Concentration	Location of Maximum Concentration	Sample Date	Number of Samples	Number of Detections	NJ Residential Direct Contact SRS	2014-05 USEPA RSL Residential Soil (HQ=0.1)	NJ Non-Residential Direct Contact SRS	2014-05 USEPA RSL Industrial Soil (HQ=0.1)	NJ Impact to GW Soil Screening Level	2014-05 USEPA RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	Evaluated as COPC in Risk Assessment	Rationale
Inorganics (mg/kg)														
Aluminum	32,000	FTMM02-B-64	3/23/1999	202	202	0	127	NLE	0	154	182	15	Yes	Exceeds Residential RSL and Maximum Background at 15 locations
Antimony	8.45	FTMM02-B-165	5/14/1999	202	153	0	5	0	0	1	153	202	Yes	Exceeds Residential RSL and Maximum Background at 5 locations
Arsenic	81.3	FTMM02-B-73	4/6/1999	202	201	10	200	10	196	10	201	7	Yes	Exceeds Residential RSL and Maximum Background at 7 locations
Barium	501	FTMM02-B-155	5/11/1999	202	202	0	0	0	0	0	185	135	No	Less than RSL
Beryllium	10.6	FTMM02-B-64	3/23/1999	202	200	0	0	0	0	132	8	7	No	Less than RSL
Cadmium	505	FTMM02-B-26	2/24/1999	202	146	2	5	2	2	17	146	202	Yes	Exceeds Residential RSL and Maximum Background at 5 locations
Calcium	14,900	FTMM02-B-95	4/21/1999	202	202	NLE	NLE	NLE	NLE	NLE	NLE	137	No	Essential nutrient
Chromium	379	FTMM02-B-32	3/8/1999	202	202	NLE	0	NLE	0	NLE	0	3	No	Less than RSL
Cobalt	35.9	FTMM02-B-31	3/8/1999	202	201	0	69	0	1	0	201	55	Yes	Exceeds Residential RSL and Maximum Background at 55 locations
Copper	391	FTMM02-B-15	2/23/1999	202	202	0	4	0	0	0	201	167	Yes	Exceeds Residential RSL and Maximum Background at 4 locations
Iron	118,000	FTMM02-B-31	3/8/1999	202	202	NLE	195	NLE	2	NLE	202	6	No	Essential nutrient
Lead	897	FTMM02-B-32	3/8/1999	202	202	1	1	1	1	14	NLE	137	Yes	Exceeds Residential RSL and Maximum Background at 1 location
Magnesium	10,600	FTMM02-B-39	3/10/1999	202	202	NLE	NLE	NLE	NLE	NLE	NLE	3	No	Essential nutrient
Manganese	4,680	FTMM02-B-149	5/11/1999	202	202	0	19	0	1	76	201	47	Yes	Exceeds Residential RSL and Maximum Background at 19 locations
Mercury	16.7	FTMM02-B-64	3/23/1999	202	198	0	8	0	0	131	198	202	Yes	Exceeds Residential RSL and Maximum Background at 8 locations
Nickel	1760	FTMM02-B-186	5/18/1999	202	202	1	2	0	0	5	193	66	Yes	Exceeds Residential RSL and Maximum Background at 2 locations
Potassium	25,800	FTMM02-B-39	3/10/1999	202	202	NLE	NLE	NLE	NLE	NLE	NLE	4	No	Essential nutrient
Selenium	3.72	FTMM02-B-31	3/8/1999	202	158	0	0	0	0	0	158	23	No	Less than RSL
Silver	11.1	FTMM02-B-185	5/18/1999	202	11	0	0	0	0	9	11	9	No	Less than RSL
Sodium	928	FTMM02-B-130	5/10/1999	202	202	NLE	NLE	NLE	NLE	NLE	NLE	201	No	Essential nutrient
Thallium	1.03	FTMM02-B-211	6/2/1999	202	1	0	1	0	0	0	1	202	Yes	Exceeds Residential RSL and Maximum Background at 1 location
Vanadium	189	FTMM02-B-64	3/23/1999	202	202	11	122	0	0	NLE	199	3	Yes	Exceeds Residential RSL and Maximum Background at 3 locations
Zinc	4,510	FTMM02-B-149	5/11/1999	202	202	0	2	0	0	2	177	88	Yes	Exceeds Residential RSL and Maximum Background at 2 locations

Notes:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.

3) NLE = no limit established.

4) ND = not detected in any background sample, no background concentration available.

5) µg/kg = microgram per kilogram

6) mg/kg = milligram per kilogram

7) COPC = contaminant of potential concern.

8) Dash (-) = only background concentrations for metals are being used as comparison criteria.

9) Chemical result qualifiers are assigned by the laboratory and is typically evaluated and modified (if necessary) by during data validation.
J = estimated (detect or non-detect) value.

B = Compound detected in the sample and its associated blank sample.

D = Results from dilution of sample.

10) Criteria action level source documents and web addresses

- New Jersey Department of Environmental Protection (NJDEP) Residential Direct Contact Soil Remediation Standards (RDCSRS) and Non-Residential Direct Contact Soil Remediation Standards (NRDCSRS) (N.J.A.C 7:26D; amended May 7, 2012). Available at: http://www.state.nj.us/dep/srp/regs/rs/.
- The 2014-05 USEPA Regional Screening Levels (RSL) Residential Soil (HQ=0.1) refers to the EPA's Region 9 RSLs (HQ=0.1) - 5/31/2014 (Last revised) http://www.epa.gov/region9/superfund/prg/ (RSL values were current at the time the screening was conducted.)
- The 2014-05 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 RSLs (HQ=0.1) - 5/31/2014 (Last revised) http://www.epa.gov/region9/superfund/prg/ (RSL values were current at the time the screening was conducted.)
- The NJDEP Impact to Ground Water Soil Screening Level refers to the Development of Impact to Ground Water Soil Remediation Standards Using the Soil-Water Partition Equation Guidance Document (Nov 2013). http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf
- The 2014-05 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 RSLs (HQ=0.1) - 5/31/2014 http://www.epa.gov/region9/superfund/prg/ (RSL values were current at the time the screening was conducted.)
- The Weston 1995 Background (Main Post) refers to the FTMM reports.

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW01			M2MW02				M2MW02
Sample ID				FTMM02-GW-M2MW01-0	FTMM02-GW-M2MW01-1	FTMM02-GW-M2MW01-1-Dup	FTMM02-GW-M2MW02-44	FTMM02-GW-M2MW02-45	FTMM02-GW-M2MW02-45-Dup	FTMM02-GW-M2MW02-46	FTMM02-GW-M2MW02-46-Dup
Sample Date				12/16/2010	3/14/2011	3/14/2011	3/17/2008	5/22/2008	5/22/2008	8/26/2008	8/26/2008
Sample Round				1	2	2	44	45	45	46	46
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	NA	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	NA	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	NA	ND	ND	**0.47**	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	NA	ND	ND	**0.82**	ND	**0.45 J**	ND	**0.31 J**
1,4-Dichlorobenzene	75	0.48	-	NA	ND	ND	**3.32**	ND	**1.61 J**	**0.6 J**	**0.76 J**
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	NA	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	NA	ND	ND	**23.95**	**1.56 J**	**12.74**	**4.31**	**6.09**
Chloroethane	5	2,100	-	NA	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	NA	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	NA	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	NA	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	NA	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	NA	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	NA	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	NA	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW01			M2MW02				M2MW02
Sample ID				FTMM02-GW-M2MW01-0	FTMM02-GW-M2MW01-1	FTMM02-GW-M2MW01-1-Dup	FTMM02-GW-M2MW02-44	FTMM02-GW-M2MW02-45	FTMM02-GW-M2MW02-45-Dup	FTMM02-GW-M2MW02-46	FTMM02-GW-M2MW02-46-Dup
Sample Date				12/16/2010	3/14/2011	3/14/2011	3/17/2008	5/22/2008	5/22/2008	8/26/2008	8/26/2008
Sample Round				1	2	2	44	45	45	46	46
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	< 200	**238**	**229**	NA	NA	NA	NA	NA
Antimony	6	0.78	20.7	< 6	< 6	< 6	NA	NA	NA	NA	NA
Arsenic	3	0.052	89.3	< 3	< 3	< 3	NA	NA	NA	NA	NA
Barium	6,000	380	699	**533**	< 200	< 200	NA	NA	NA	NA	NA
Beryllium	1	2.5	2.1	< 1	< 1	< 1	NA	NA	NA	NA	NA
Cadmium	4	0.92	9.5	< 3	< 3	< 3	NA	NA	NA	NA	NA
Calcium	NLE	NLE	45,400	**89,200**	**7,860**	**7,690**	NA	NA	NA	NA	NA
Chromium	70	NLE	191	< 10	< 10	< 10	NA	NA	NA	NA	NA
Cobalt	100	0.6	18.3	< 50	< 50	< 50	NA	NA	NA	NA	NA
Copper	1,300	80	65.6	< 10	< 10	< 10	NA	NA	NA	NA	NA
Iron	300	1,400	431,000	**67,400**	< 100	< 100	NA	NA	NA	NA	NA
Lead	5	15[2]	22.7	< 3	< 3	< 3	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	62,700	**5,720**	< 5000	< 5000	NA	NA	NA	NA	NA
Manganese	50	32	331	**614**	**38.6**	**38.5**	NA	NA	NA	NA	NA
Mercury	2	0.063	0.26	NA	< 0.2	< 0.2	NA	NA	NA	NA	NA
Nickel	100	39	187	< 10	< 10	< 10	NA	NA	NA	NA	NA
Potassium	NLE	NLE	137,000	< 10000	< 10000	< 10000	NA	NA	NA	NA	NA
Selenium	40	10	29.6	< 10	< 10	< 10	NA	NA	NA	NA	NA
Silver	40	9.4	ND	< 10	< 10	< 10	NA	NA	NA	NA	NA
Sodium	50,000	NLE	21,500	**21,500**	< 10000	< 10000	NA	NA	NA	NA	NA
Thallium	2	0.02	5.5	< 2	< 2	< 2	NA	NA	NA	NA	NA
Vanadium	NLE	8.6	108	< 50	< 50	< 50	NA	NA	NA	NA	NA
Zinc	2,000	600	233	< 20	**725**	**721**	NA	NA	NA	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW02							
Sample ID				FTMM02-GW-M2MW02-47	FTMM02-GW-M2MW02-47-Dup	FTMM02-GW-M2MW02-48	FTMM02-GW-M2MW02-48-Dup	FTMM02-GW-M2MW02-49	FTMM02-GW-M2MW02-50	FTMM02-GW-M2MW02-51	FTMM02-GW-M2MW02-52
Sample Date				12/23/2008	12/23/2008	3/31/2009	3/31/2009	6/19/2009	9/22/2009	12/4/2009	3/9/2010
Sample Round				47	47	48	48	49	50	51	52
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	**0.43 J**
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	**0.5 J**	**0.54 J**	**0.56 J**	ND	ND	**0.4 J**
1,3-Dichlorobenzene	600	NLE	-	**0.47 J**	**0.42 J**	**0.97 J**	**1.02 J**	**1.09 J**	**0.44 J**	**0.78**	**0.78**
1,4-Dichlorobenzene	75	0.48	-	**1.08 J**	**1.05 J**	**3.56**	**3.71**	**4.09**	**1.57**	**2.44**	**2.78**
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	**11.4**	**11.41**	**31.71**	**32.12**	**31.98**	**13.81**	**23.12**	**22.08**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	**7**	ND	ND	**3**
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	**0.6 J**	**0.6 J**	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	**2 J**	**2 J**	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	ND	ND	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	**1 J**	**1 J**	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	**50**	**50**	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	**0.051**	**0.056**	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	ND	**0.055**	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	**0.06**	ND	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	ND	ND	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	**0.038**	**0.04**	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22[1]	-	NA	NA	ND	ND	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	**0.037**	**0.048**	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	**0.039**	**0.059**	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	**0.038**	**0.041**	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	ND	**0.033**	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	ND	**0.038**	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	ND	ND	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	**0.043**	**0.045**	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	ND	ND	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	**0.09**	**0.146**	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22[1]	-	NA	NA	**0.038**	**0.046**	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	ND	**0.046**	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	ND	ND	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	**0.047**	**0.054**	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW02							
Sample ID				FTMM02-GW-M2MW02-47	FTMM02-GW-M2MW02-47-Dup	FTMM02-GW-M2MW02-48	FTMM02-GW-M2MW02-48-Dup	FTMM02-GW-M2MW02-49	FTMM02-GW-M2MW02-50	FTMM02-GW-M2MW02-51	FTMM02-GW-M2MW02-52
Sample Date				12/23/2008	12/23/2008	3/31/2009	3/31/2009	6/19/2009	9/22/2009	12/4/2009	3/9/2010
Sample Round				47	47	48	48	49	50	51	52
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	**12.2**	**15.9**	NA	NA	NA	**25.7**
Antimony	6	0.78	20.7	NA	NA	**20.3**	**15.3**	NA	NA	NA	**5.19 ER**
Arsenic	3	0.052	89.3	NA	NA	**65.3**	**65.7**	NA	NA	NA	**1.05 ER**
Barium	6,000	380	699	NA	NA	**285**	**297**	NA	NA	NA	**266**
Beryllium	1	2.5	2.1	NA	NA	ND	ND	NA	NA	NA	ND
Cadmium	4	0.92	9.5	NA	NA	ND	ND	NA	NA	NA	ND
Calcium	NLE	NLE	45,400	NA	NA	**87,700**	**91,500**	NA	NA	NA	**13,200**
Chromium	70	NLE	191	NA	NA	**0.353 ER**	**1.29 ER**	NA	NA	NA	ND
Cobalt	100	0.6	18.3	NA	NA	ND	**0.143**	NA	NA	NA	ND
Copper	1,300	80	65.6	NA	NA	ND	ND	NA	NA	NA	ND
Iron	300	1,400	431,000	NA	NA	**41,200**	**42,700**	NA	NA	NA	**30,100**
Lead	5	15[2]	22.7	NA	NA	**7.16**	ND	NA	NA	NA	ND
Magnesium	NLE	NLE	62,700	NA	NA	**32,300**	**33,700**	NA	NA	NA	**37,100**
Manganese	50	32	331	NA	NA	**318**	**329**	NA	NA	NA	**296**
Mercury	2	0.063	0.26	NA	NA	ND	ND	NA	NA	NA	ND
Nickel	100	39	187	NA	NA	ND	ND	NA	NA	NA	**5.64**
Potassium	NLE	NLE	137,000	NA	NA	**8,580**	**8,920**	NA	NA	NA	**11,200**
Selenium	40	10	29.6	NA	NA	**41.2**	**51.9**	NA	NA	NA	ND
Silver	40	9.4	ND	NA	NA	ND	ND	NA	NA	NA	ND
Sodium	50,000	NLE	21,500	NA	NA	**8,450**	**8,840**	NA	NA	NA	**7,070**
Thallium	2	0.02	5.5	NA	NA	ND	ND	NA	NA	NA	ND
Vanadium	NLE	8.6	108	NA	NA	**5.27**	**6**	NA	NA	NA	**5.14**
Zinc	2,000	600	233	NA	NA	**9.95**	**10.6**	NA	NA	NA	**80.2**

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW02					M2MW02		
Sample ID				FTMM02-GW-M2MW02-53	FTMM02-GW-M2MW02-54	FTMM02-GW-M2MW02-54-Dup	FTMM02-GW-M2MW02-55	FTMM02-GW-M2MW02-56	FTMM02-GW-M2MW02-56-Dup	FTMM02-GW-M2MW02-57	FTMM02-GW-M2MW02-58
Sample Date				6/14/2010	9/24/2010	9/24/2010	12/16/2010	3/9/2011	3/9/2011	6/15/2011	8/23/2011
Sample Round				53	54	54	55	56	56	57	58
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	ND
1,2-Dichlorobenzene	600	30	-	**0.57**	ND	ND	**0.61**	**0.28 J**	ND	**0.44 J**	ND
1,3-Dichlorobenzene	600	NLE	-	**1.04**	**0.53**	**0.45 J**	**1.12**	**0.55**	ND	**0.9**	ND
1,4-Dichlorobenzene	75	0.48	-	**3.52**	**1.81**	**1.56**	**4.15**	**1.89**	ND	**2.81**	**0.46 J**
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	**30.05**	**11.88**	**10.56**	**32.7**	**16.27**	ND	**27.78**	**2.1**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	ND
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	NA
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	**4**	**4**	**4**	**8**	ND	ND	**4**	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW02					M2MW02		
Sample ID				FTMM02-GW-M2MW02-53	FTMM02-GW-M2MW02-54	FTMM02-GW-M2MW02-54-Dup	FTMM02-GW-M2MW02-55	FTMM02-GW-M2MW02-56	FTMM02-GW-M2MW02-56-Dup	FTMM02-GW-M2MW02-57	FTMM02-GW-M2MW02-58
Sample Date				6/14/2010	9/24/2010	9/24/2010	12/16/2010	3/9/2011	3/9/2011	6/15/2011	8/23/2011
Sample Round				53	54	54	55	56	56	57	58
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	ND	ND	ND	< 200	< 200	< 200	< 200	< 200
Antimony	6	0.78	20.7	**9.56 ER**	**14.4**	**11**	< 6	< 6	< 6	< 6	< 6
Arsenic	3	0.052	89.3	**1.37 ER**	**0.72 ER**	**0.78 ER**	< 3	< 3	< 3	< 3	< 3
Barium	6,000	380	699	**289**	**156**	**160**	**484**	**273**	< 200	**246**	**224**
Beryllium	1	2.5	2.1	**0.049 ER**	ND	ND	< 1	< 1	**4.1**	< 1	< 1
Cadmium	4	0.92	9.5	**1.62 ER**	**0.865 ER**	**1.08 ER**	< 3	< 3	< 3	< 3	< 3
Calcium	NLE	NLE	45,400	**87,700**	**60,300**	**61,500**	**118,000**	**174,000**	**49,700**	**110,000**	**122,000**
Chromium	70	NLE	191	ND	ND	ND	< 10	< 10	< 10	< 10	< 10
Cobalt	100	0.6	18.3	ND	ND	ND	< 50	< 50	< 50	< 50	< 50
Copper	1,300	80	65.6	ND	**1.52 ER**	**1.47 ER**	< 10	< 10	< 10	< 10	< 10
Iron	300	1,400	431,000	**54,100**	**23,800**	**24,500**	**55,200**	**14,500**	**10,000**	**32,200**	**11,100**
Lead	5	15[2]	22.7	**3.96 ER**	**3.32 ER**	ND	< 3	< 3	< 3	< 3	< 3
Magnesium	NLE	NLE	62,700	**22,100**	**13,600**	**14,000**	**43,400**	**49,200**	< 5000	**39,000**	**24,400**
Manganese	50	32	331	**312**	**230**	**236**	**368**	**255**	**74.7**	**296**	**1,250**
Mercury	2	0.063	0.26	**0.06 ER**	ND	ND	< 0.5	< 0.2	< 0.2	< 0.2	< 0.2
Nickel	100	39	187	**1.55 ER**	ND	ND	< 10	< 10	< 10	< 10	**10.3**
Potassium	NLE	NLE	137,000	**7,520**	**6,870**	**6,990**	**12,800**	**14,000**	< 10000	< 10000	**11,200**
Selenium	40	10	29.6	NA	ND	ND	< 10	< 10	< 10	< 10	< 10
Silver	40	9.4	ND	**8.57**	**1.98**	**2.27**	< 10	< 10	< 10	< 10	< 10
Sodium	50,000	NLE	21,500	**8,230**	**9,230**	**9,660**	**11,200**	**10,200**	< 10000	< 10000	< 10000
Thallium	2	0.02	5.5	ND	ND	ND	< 2	< 2	< 2	< 2	< 2
Vanadium	NLE	8.6	108	ND	ND	ND	< 50	< 50	< 50	< 50	< 50
Zinc	2,000	600	233	ND	ND	**1.25**	< 20	**76.1**	< 20	< 20	**117**

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW03				M2MW03			
Sample ID				FTMM02-GW-M2MW03-44	FTMM02-GW-M2MW03-45	FTMM02-GW-M2MW03-46	FTMM02-GW-M2MW03-47	FTMM02-GW-M2MW03-48	FTMM02-GW-M2MW03-49	FTMM02-GW-M2MW03-50	FTMM02-GW-M2MW03-51
Sample Date				3/17/2008	5/22/2008	8/26/2008	12/23/2008	3/30/2009	6/19/2009	9/22/2009	12/4/2009
Sample Round				44	45	46	47	48	49	50	51
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	**2.4**	**2.76**	ND	**2.51**	ND	**2.39**	ND	ND
1,3-Dichlorobenzene	600	NLE	-	**2.59**	**3.19**	**0.4 J**	**2.33**	ND	**2.61**	ND	ND
1,4-Dichlorobenzene	75	0.48	-	**6.55**	**7.77**	**0.39 J**	**6.74**	**0.36 J**	**6.55**	**0.64**	**0.52**
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	**5.53**	**5.48**	ND	**6.61**	ND	**5.55**	ND	**0.26 J**
Chlorobenzene	50	7.8	-	**157.16**	**157.28**	**6.05**	**134.62 E**	**6.96**	**151.72**	**14.19**	**8.14**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	**0.43 J**	ND	**0.25 J**	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	**3**	ND	ND	**3**	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	ND	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	**0.5 J**	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	ND	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	**12**	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	ND	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	ND	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	**0.029**	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	ND	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	ND	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	ND	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	**0.027**	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	ND	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	**0.037**	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	**0.027**	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	**0.043**	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW03				M2MW03			
Sample ID				FTMM02-GW-M2MW03-44	FTMM02-GW-M2MW03-45	FTMM02-GW-M2MW03-46	FTMM02-GW-M2MW03-47	FTMM02-GW-M2MW03-48	FTMM02-GW-M2MW03-49	FTMM02-GW-M2MW03-50	FTMM02-GW-M2MW03-51
Sample Date				3/17/2008	5/22/2008	8/26/2008	12/23/2008	3/30/2009	6/19/2009	9/22/2009	12/4/2009
Sample Round				44	45	46	47	48	49	50	51
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	NA	NA	ND	NA	NA	NA
Antimony	6	0.78	20.7	NA	NA	NA	NA	**28**	NA	NA	NA
Arsenic	3	0.052	89.3	NA	NA	NA	NA	**101**	NA	NA	NA
Barium	6,000	380	699	NA	NA	NA	NA	**96.1**	NA	NA	NA
Beryllium	1	2.5	2.1	NA	NA	NA	NA	ND	NA	NA	NA
Cadmium	4	0.92	9.5	NA	NA	NA	NA	ND	NA	NA	NA
Calcium	NLE	NLE	45,400	NA	NA	NA	NA	**87,300**	NA	NA	NA
Chromium	70	NLE	191	NA	NA	NA	NA	**0.395 ER**	NA	NA	NA
Cobalt	100	0.6	18.3	NA	NA	NA	NA	ND	NA	NA	NA
Copper	1,300	80	65.6	NA	NA	NA	NA	ND	NA	NA	NA
Iron	300	1,400	431,000	NA	NA	NA	NA	**15,900**	NA	NA	NA
Lead	5	15[2]	22.7	NA	NA	NA	NA	**4.59 ER**	NA	NA	NA
Magnesium	NLE	NLE	62,700	NA	NA	NA	NA	**7,070**	NA	NA	NA
Manganese	50	32	331	NA	NA	NA	NA	**501**	NA	NA	NA
Mercury	2	0.063	0.26	NA	NA	NA	NA	ND	NA	NA	NA
Nickel	100	39	187	NA	NA	NA	NA	ND	NA	NA	NA
Potassium	NLE	NLE	137,000	NA	NA	NA	NA	**10,100**	NA	NA	NA
Selenium	40	10	29.6	NA	NA	NA	NA	**102**	NA	NA	NA
Silver	40	9.4	ND	NA	NA	NA	NA	ND	NA	NA	NA
Sodium	50,000	NLE	21,500	NA	NA	NA	NA	**18,000**	NA	NA	NA
Thallium	2	0.02	5.5	NA	NA	NA	NA	ND	NA	NA	NA
Vanadium	NLE	8.6	108	NA	NA	NA	NA	**2.39**	NA	NA	NA
Zinc	2,000	600	233	NA	NA	NA	NA	**5.31**	NA	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW03			M2MW03				M2MW04
Sample ID				FTMM02-GW-M2MW03-52	FTMM02-GW-M2MW03-53	FTMM02-GW-M2MW03-54	FTMM02-GW-M2MW03-55	FTMM02-GW-M2MW03-56	FTMM02-GW-M2MW03-57	FTMM02-GW-M2MW03-58	FTMM02-GW-M2MW04-41
Sample Date				3/9/2010	6/11/2010	9/23/2010	12/16/2010	3/8/2011	6/14/2011	8/22/2011	3/17/2008
Sample Round				52	53	54	55	56	57	58	41
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	**1.2**	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	ND	NA
1,2-Dichlorobenzene	600	30	-	**2.49**	ND	ND	ND	**2.77**	ND	**2.4**	ND
1,3-Dichlorobenzene	600	NLE	-	**2.59**	ND	**0.87**	ND	**3.21**	ND	**2.5**	ND
1,4-Dichlorobenzene	75	0.48	-	**6.39**	**0.49 J**	**0.85**	ND	**7.56**	**0.5 J**	**7**	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	**4.99**	ND	**0.36 J**	ND	**4.74**	ND	**3.1**	ND
Chlorobenzene	50	7.8	-	**133.27**	**7.81**	**8.4**	**3.7**	**127.08 D**	**4.85**	**94.6**	**1.49 J**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	**1.5**	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	**2.13**	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	**1.1 J**	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	**6.25**	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	NA	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	**0.4 J**	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	**16.2**	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW03			M2MW03				M2MW04
Sample ID				FTMM02-GW-M2MW03-52	FTMM02-GW-M2MW03-53	FTMM02-GW-M2MW03-54	FTMM02-GW-M2MW03-55	FTMM02-GW-M2MW03-56	FTMM02-GW-M2MW03-57	FTMM02-GW-M2MW03-58	FTMM02-GW-M2MW04-41
Sample Date				3/9/2010	6/11/2010	9/23/2010	12/16/2010	3/8/2011	6/14/2011	8/22/2011	3/17/2008
Sample Round				52	53	54	55	56	57	58	41
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	**36.4**	ND	**18.5**	< 200	< 200	**1,050**	**248**	NA
Antimony	6	0.78	20.7	**6.21 ER**	**13**	**20.4**	< 6	< 6	< 6	< 6	NA
Arsenic	3	0.052	89.3	**0.75 ER**	**0.71 ER**	**2.91 ER**	< 3	< 3	**4.4**	< 3	NA
Barium	6,000	380	699	**270**	**74.7**	**137**	< 200	**334**	< 200	**229**	NA
Beryllium	1	2.5	2.1	ND	ND	ND	< 1	**1.5**	< 1	< 1	NA
Cadmium	4	0.92	9.5	**0.6 ER**	ND	**0.529 ER**	< 3	< 3	< 3	< 3	NA
Calcium	NLE	NLE	45,400	**186,000**	**69,600**	**133,000**	**77,800**	**163,000**	**62,400**	**112,000**	NA
Chromium	70	NLE	191	ND	ND	ND	< 10	< 10	**12.7**	< 10	NA
Cobalt	100	0.6	18.3	ND	ND	ND	< 50	< 50	< 50	< 50	NA
Copper	1,300	80	65.6	ND	ND	**4.02 ER**	< 10	< 10	**18**	< 10	NA
Iron	300	1,400	431,000	**42,200**	**14,200**	**3,990**	**16,200**	**41,000**	**29,100**	**35,400**	NA
Lead	5	15[2]	22.7	ND	ND	ND	< 3	< 3	**12.4**	**20.4**	NA
Magnesium	NLE	NLE	62,700	**16,000**	**5,980**	**11,500**	**5,950**	**12,300**	**6,910**	**13,700**	NA
Manganese	50	32	331	**624**	**426**	**373**	**606**	**490**	**232**	**393**	NA
Mercury	2	0.063	0.26	**0.07 ER**	ND	ND	< 0.5	< 0.2	< 0.2	**0.37**	NA
Nickel	100	39	187	ND	ND	**5**	< 10	< 10	< 10	< 10	NA
Potassium	NLE	NLE	137,000	**12,900**	**8,960**	**13,000**	**11,700**	**10,500**	< 10000	**14,900**	NA
Selenium	40	10	29.6	ND	NA	ND	< 10	< 10	< 10	< 10	NA
Silver	40	9.4	ND	ND	**2.07**	ND	< 10	< 10	< 10	< 10	NA
Sodium	50,000	NLE	21,500	**34,900**	**16,200**	**65,200**	**19,800**	**30,800**	< 10000	**275,000**	NA
Thallium	2	0.02	5.5	ND	ND	ND	< 2	< 2	< 2	< 2	NA
Vanadium	NLE	8.6	108	**5.43**	ND	ND	< 50	< 50	< 50	< 50	NA
Zinc	2,000	600	233	**2.19**	**2.19**	**21.3**	< 20	< 20	**111**	**32.3**	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW04		M2MW04					
Sample ID				FTMM02-GW-M2MW04-42	FTMM02-GW-M2MW04-43	FTMM02-GW-M2MW04-44	FTMM02-GW-M2MW04-45	FTMM02-GW-M2MW04-46	FTMM02-GW-M2MW04-47	FTMM02-GW-M2MW04-48	FTMM02-GW-M2MW04-49
Sample Date				5/22/2008	8/26/2008	12/23/2008	3/30/2009	6/19/2009	9/22/2009	12/4/2009	3/10/2010
Sample Round				42	43	44	45	46	47	48	50
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	**0.62 J**	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	**0.34 J**	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	**7.29**	**1.49 J**	**0.61 J**	ND	**1.61**	**0.5 J**	**0.62**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	**0.24 J**	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	**3**	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	ND	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	ND	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	ND	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	ND	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	**23**	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	ND	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	ND	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	ND	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	ND	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	ND	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	ND	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	ND	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	ND	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	ND	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	ND	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	ND	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	ND	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	ND	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	ND	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	ND	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	ND	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	ND	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	ND	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	ND	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW04		M2MW04					
Sample ID				FTMM02-GW-M2MW04-42	FTMM02-GW-M2MW04-43	FTMM02-GW-M2MW04-44	FTMM02-GW-M2MW04-45	FTMM02-GW-M2MW04-46	FTMM02-GW-M2MW04-47	FTMM02-GW-M2MW04-48	FTMM02-GW-M2MW04-49
Sample Date				5/22/2008	8/26/2008	12/23/2008	3/30/2009	6/19/2009	9/22/2009	12/4/2009	3/10/2010
Sample Round				42	43	44	45	46	47	48	50
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	NA	ND	NA	NA	NA	**22.7**
Antimony	6	0.78	20.7	NA	NA	NA	**18**	NA	NA	NA	ND
Arsenic	3	0.052	89.3	NA	NA	NA	**56.9**	NA	NA	NA	ND
Barium	6,000	380	699	NA	NA	NA	**74.7**	NA	NA	NA	**51.8**
Beryllium	1	2.5	2.1	NA	NA	NA	ND	NA	NA	NA	ND
Cadmium	4	0.92	9.5	NA	NA	NA	ND	NA	NA	NA	ND
Calcium	NLE	NLE	45,400	NA	NA	NA	**28,800**	NA	NA	NA	**24,100**
Chromium	70	NLE	191	NA	NA	NA	**0.538 ER**	NA	NA	NA	ND
Cobalt	100	0.6	18.3	NA	NA	NA	ND	NA	NA	NA	ND
Copper	1,300	80	65.6	NA	NA	NA	ND	NA	NA	NA	ND
Iron	300	1,400	431,000	NA	NA	NA	**13,400**	NA	NA	NA	**9,610**
Lead	5	15[2]	22.7	NA	NA	NA	**6.55**	NA	NA	NA	ND
Magnesium	NLE	NLE	62,700	NA	NA	NA	**4,650**	NA	NA	NA	**4,200**
Manganese	50	32	331	NA	NA	NA	**111**	NA	NA	NA	**83.9**
Mercury	2	0.063	0.26	NA	NA	NA	ND	NA	NA	NA	ND
Nickel	100	39	187	NA	NA	NA	ND	NA	NA	NA	**0.786 ER**
Potassium	NLE	NLE	137,000	NA	NA	NA	**5,920**	NA	NA	NA	**5,820**
Selenium	40	10	29.6	NA	NA	NA	**85.6**	NA	NA	NA	**35.8**
Silver	40	9.4	ND	NA	NA	NA	ND	NA	NA	NA	ND
Sodium	50,000	NLE	21,500	NA	NA	NA	**8,320**	NA	NA	NA	**6,140**
Thallium	2	0.02	5.5	NA	NA	NA	ND	NA	NA	NA	ND
Vanadium	NLE	8.6	108	NA	NA	NA	**1.4**	NA	NA	NA	**1.59**
Zinc	2,000	600	233	NA	NA	NA	ND	NA	NA	NA	**4.53**

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW04	M2MW04						M2MW05
Sample ID				FTMM02-GW-M2MW04-50-Dup	FTMM02-GW-M2MW04-51	FTMM02-GW-M2MW04-52	FTMM02-GW-M2MW04-53	FTMM02-GW-M2MW04-54	FTMM02-GW-M2MW04-55	FTMM02-GW-M2MW04-56	FTMM02-GW-M2MW05-39
Sample Date				3/10/2010	6/14/2010	9/23/2010	12/16/2010	3/8/2011	6/15/2011	8/23/2011	3/17/2008
Sample Round				50	51	52	53	54	55	56	39
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	ND	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	**0.32 J**	**0.71**	**0.45 J**	ND	**0.29**	**0.46 J**	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	ND	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	NA	**6.23 J**
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW04	M2MW04						M2MW05
Sample ID				FTMM02-GW-M2MW04-50-Dup	FTMM02-GW-M2MW04-51	FTMM02-GW-M2MW04-52	FTMM02-GW-M2MW04-53	FTMM02-GW-M2MW04-54	FTMM02-GW-M2MW04-55	FTMM02-GW-M2MW04-56	FTMM02-GW-M2MW05-39
Sample Date				3/10/2010	6/14/2010	9/23/2010	12/16/2010	3/8/2011	6/15/2011	8/23/2011	3/17/2008
Sample Round				50	51	52	53	54	55	56	39
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	ND	**17.2**	**40.7**	< 200	< 200	< 200	< 200	NA
Antimony	6	0.78	20.7	ND	**8.09 ER**	**11**	< 6	< 6	< 6	< 6	NA
Arsenic	3	0.052	89.3	ND	**1.27 ER**	**0.77 ER**	< 3	< 3	< 3	< 3	NA
Barium	6,000	380	699	**30.6**	**81**	**116**	< 200	< 200	< 200	< 200	NA
Beryllium	1	2.5	2.1	ND	ND	ND	< 1	< 1	< 1	< 1	NA
Cadmium	4	0.92	9.5	ND	ND	**0.938 ER**	< 3	< 3	< 3	< 3	NA
Calcium	NLE	NLE	45,400	**14,100**	**25,300**	**30,200**	**28,100**	**26,200**	**39,200**	**37,000**	NA
Chromium	70	NLE	191	ND	ND	ND	< 10	< 10	< 10	< 10	NA
Cobalt	100	0.6	18.3	ND	ND	ND	< 50	< 50	< 50	< 50	NA
Copper	1,300	80	65.6	ND	ND	**1.82 ER**	< 10	< 10	< 10	< 10	NA
Iron	300	1,400	431,000	**5,641**	**15,200**	**23,400**	**23,200**	**14,700**	**23,400**	**22,900**	NA
Lead	5	15[2]	22.7	ND	ND	ND	< 3	< 3	< 3	< 3	NA
Magnesium	NLE	NLE	62,700	**2,410**	**4,500**	**4,730**	< 5000	< 5000	**5,790**	**5,380**	NA
Manganese	50	32	331	**47.2**	**70.6**	**98**	**93.8**	**67.4**	**163**	**265**	NA
Mercury	2	0.063	0.26	ND	**0.06 ER**	ND	< 0.5	< 0.2	< 0.2	< 0.2	NA
Nickel	100	39	187	ND	ND	**0.555 ER**	< 10	< 10	< 10	< 10	NA
Potassium	NLE	NLE	137,000	**3,280**	**5,890**	**6,750**	< 10000	< 10000	< 10000	< 10000	NA
Selenium	40	10	29.6	**23.6**	NA	ND	< 10	< 10	< 10	< 10	NA
Silver	40	9.4	ND	ND	**4.29**	**2.72**	< 10	< 10	< 10	< 10	NA
Sodium	50,000	NLE	21,500	**4,510**	**7,610**	**8,050**	< 10000	< 10000	< 10000	< 10000	NA
Thallium	2	0.02	5.5	ND	ND	ND	< 2	< 2	< 2	< 2	NA
Vanadium	NLE	8.6	108	**0.974**	ND	ND	< 50	< 50	< 50	< 50	NA
Zinc	2,000	600	233	**2.08**	**1.88**	**2.83**	< 20	< 20	< 20	< 20	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW05							M2MW05
Sample ID				FTMM02-GW-M2MW05-40	FTMM02-GW-M2MW05-41	FTMM02-GW-M2MW05-42	FTMM02-GW-M2MW05-42-Dup	FTMM02-GW-M2MW05-43	FTMM02-GW-M2MW05-44	FTMM02-GW-M2MW05-44-Dup	FTMM02-GW-M2MW05-45
Sample Date				5/23/2008	8/26/2008	12/27/2008	12/27/2008	3/31/2009	6/22/2009	6/22/2009	9/22/2009
Sample Round				40	41	42	42	43	44	44	45
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	ND	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	ND	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	**0.9 J**	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	**32**	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	ND	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	ND	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	ND	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	ND	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	ND	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	ND	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	**0.034**	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	**0.034**	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	**0.038**	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW05								M2MW05
Sample ID				FTMM02-GW-M2MW05-40	FTMM02-GW-M2MW05-41	FTMM02-GW-M2MW05-42	FTMM02-GW-M2MW05-42-Dup	FTMM02-GW-M2MW05-43	FTMM02-GW-M2MW05-44	FTMM02-GW-M2MW05-44-Dup	FTMM02-GW-M2MW05-45
Sample Date				5/23/2008	8/26/2008	12/27/2008	12/27/2008	3/31/2009	6/22/2009	6/22/2009	9/22/2009
Sample Round				40	41	42	42	43	44	44	45
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	NA	NA	ND	NA	NA	NA
Antimony	6	0.78	20.7	NA	NA	NA	NA	**12.8**	NA	NA	NA
Arsenic	3	0.052	89.3	NA	NA	NA	NA	**52**	NA	NA	NA
Barium	6,000	380	699	NA	NA	NA	NA	**93.9**	NA	NA	NA
Beryllium	1	2.5	2.1	NA	NA	NA	NA	ND	NA	NA	NA
Cadmium	4	0.92	9.5	NA	NA	NA	NA	ND	NA	NA	NA
Calcium	NLE	NLE	45,400	NA	NA	NA	NA	**28,700**	NA	NA	NA
Chromium	70	NLE	191	NA	NA	NA	NA	ND	NA	NA	NA
Cobalt	100	0.6	18.3	NA	NA	NA	NA	ND	NA	NA	NA
Copper	1,300	80	65.6	NA	NA	NA	NA	ND	NA	NA	NA
Iron	300	1,400	431,000	NA	NA	NA	NA	**22,800**	NA	NA	NA
Lead	5	15[2]	22.7	NA	NA	NA	NA	**2.68 ER**	NA	NA	NA
Magnesium	NLE	NLE	62,700	NA	NA	NA	NA	**4,770**	NA	NA	NA
Manganese	50	32	331	NA	NA	NA	NA	**53.2**	NA	NA	NA
Mercury	2	0.063	0.26	NA	NA	NA	NA	ND	NA	NA	NA
Nickel	100	39	187	NA	NA	NA	NA	ND	NA	NA	NA
Potassium	NLE	NLE	137,000	NA	NA	NA	NA	**6,110**	NA	NA	NA
Selenium	40	10	29.6	NA	NA	NA	NA	**58.8**	NA	NA	NA
Silver	40	9.4	ND	NA	NA	NA	NA	ND	NA	NA	NA
Sodium	50,000	NLE	21,500	NA	NA	NA	NA	**8,430**	NA	NA	NA
Thallium	2	0.02	5.5	NA	NA	NA	NA	ND	NA	NA	NA
Vanadium	NLE	8.6	108	NA	NA	NA	NA	**1.58**	NA	NA	NA
Zinc	2,000	600	233	NA	NA	NA	NA	ND	NA	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW05						M2MW05	
Sample ID				FTMM02-GW-M2MW05-45-Dup	FTMM02-GW-M2MW05-46	FTMM02-GW-M2MW05-46-Dup	FTMM02-GW-M2MW05-47	FTMM02-GW-M2MW05-47-Dup	FTMM02-GW-M2MW05-48	FTMM02-GW-M2MW05-48-Dup	FTMM02-GW-M2MW05-49
Sample Date				9/22/2009	12/3/2009	12/3/2009	3/8/2010	3/8/2010	6/14/2010	6/14/2010	9/22/2010
Sample Round				45	46	46	47	47	48	48	49
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	**4**
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW05						M2MW05	
Sample ID				FTMM02-GW-M2MW05-45-Dup	FTMM02-GW-M2MW05-46	FTMM02-GW-M2MW05-46-Dup	FTMM02-GW-M2MW05-47	FTMM02-GW-M2MW05-47-Dup	FTMM02-GW-M2MW05-48	FTMM02-GW-M2MW05-48-Dup	FTMM02-GW-M2MW05-49
Sample Date				9/22/2009	12/3/2009	12/3/2009	3/8/2010	3/8/2010	6/14/2010	6/14/2010	9/22/2010
Sample Round				45	46	46	47	47	48	48	49
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	NA	**16.2**	**13.8**	ND	ND	**48**
Antimony	6	0.78	20.7	NA	NA	NA	ND	ND	**7.58 ER**	**10.4**	**12**
Arsenic	3	0.052	89.3	NA	NA	NA	**1.44 ER**	**1.26 ER**	**1.94 ER**	**1.59 ER**	**1.35 ER**
Barium	6,000	380	699	NA	NA	NA	**149**	**147**	**115**	**113**	**88.2**
Beryllium	1	2.5	2.1	NA	NA	NA	ND	ND	ND	ND	ND
Cadmium	4	0.92	9.5	NA	NA	NA	**0.677 ER**	**0.665 ER**	**0.991 ER**	**0.897 ER**	**0.981 ER**
Calcium	NLE	NLE	45,400	NA	NA	NA	**61,800**	**60,500**	**43,000**	**43,300**	**31,700**
Chromium	70	NLE	191	NA	NA	NA	ND	ND	ND	ND	ND
Cobalt	100	0.6	18.3	NA	NA	NA	ND	ND	ND	ND	ND
Copper	1,300	80	65.6	NA	NA	NA	ND	ND	ND	ND	**1.58 ER**
Iron	300	1,400	431,000	NA	NA	NA	**43,800**	**43,100**	**31,300**	**31,300**	**22,500**
Lead	5	15[2]	22.7	NA	NA	NA	ND	ND	**2.74 ER**	ND	ND
Magnesium	NLE	NLE	62,700	NA	NA	NA	**10,400**	**10,200**	**7,390**	**7,440**	**5,380**
Manganese	50	32	331	NA	NA	NA	**113**	**113**	**80.6**	**80.8**	**56.3**
Mercury	2	0.063	0.26	NA	NA	NA	ND	ND	ND	ND	ND
Nickel	100	39	187	NA	NA	NA	ND	**0.515 ER**	ND	**0.711 ER**	**0.953 ER**
Potassium	NLE	NLE	137,000	NA	NA	NA	**10,600**	**10,400**	**8,330**	**8,250**	**8,350**
Selenium	40	10	29.6	NA	NA	NA	ND	ND	NA	NA	ND
Silver	40	9.4	ND	NA	NA	NA	ND	ND	**6.15**	**6.13**	**3.14**
Sodium	50,000	NLE	21,500	NA	NA	NA	**21,900**	**20,800**	**17,900**	**18,400**	**16,900**
Thallium	2	0.02	5.5	NA	NA	NA	ND	**0.53 ER**	ND	ND	ND
Vanadium	NLE	8.6	108	NA	NA	NA	**4.98**	**4.87**	ND	ND	ND
Zinc	2,000	600	233	NA	NA	NA	**1.43**	**1.45**	ND	ND	**1.35**

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW05					M2MW05		
Sample ID				FTMM02-GW-M2MW05-49-Dup	FTMM02-GW-M2MW05-50	FTMM02-GW-M2MW05-50-Dup	FTMM02-GW-M2MW05-51	FTMM02-GW-M2MW05-51-Dup	FTMM02-GW-M2MW05-52	FTMM02-GW-M2MW05-52-Dup	FTMM02-GW-M2MW05-53
Sample Date				9/22/2010	12/17/2010	12/17/2010	3/8/2011	3/8/2011	6/13/2011	6/13/2011	8/23/2011
Sample Round				49	50	50	51	51	52	52	53
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	ND
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	ND
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	**0.75 J**
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	NA
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	**4**	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW05					M2MW05		
Sample ID				FTMM02-GW-M2MW05-49-Dup	FTMM02-GW-M2MW05-50	FTMM02-GW-M2MW05-50-Dup	FTMM02-GW-M2MW05-51	FTMM02-GW-M2MW05-51-Dup	FTMM02-GW-M2MW05-52	FTMM02-GW-M2MW05-52-Dup	FTMM02-GW-M2MW05-53
Sample Date				9/22/2010	12/17/2010	12/17/2010	3/8/2011	3/8/2011	6/13/2011	6/13/2011	8/23/2011
Sample Round				49	50	50	51	51	52	52	53
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	**42.8**	< 200	< 200	< 200	< 200	**3,330**	**8,410**	**9,730**
Antimony	6	0.78	20.7	**10.9**	< 6	< 6	< 6	< 6	< 6	< 30	< 6
Arsenic	3	0.052	89.3	**1.26 ER**	< 3	< 3	< 3	< 3	**18**	**134**	**17.9**
Barium	6,000	380	699	**86**	< 200	< 200	< 200	< 200	**662**	**3,930**	**573**
Beryllium	1	2.5	2.1	ND	< 1	< 1	**1.3**	**1.3**	< 1	< 5	**1**
Cadmium	4	0.92	9.5	**0.822 ER**	< 3	< 3	< 3	< 3	< 3	< 15	< 3
Calcium	NLE	NLE	45,400	**31,800**	**33,900**	**33,500**	**29,400**	**29,200**	**45,800**	**73,299**	**44,500**
Chromium	70	NLE	191	ND	< 10	< 10	< 10	< 10	**41.8**	**108**	**118**
Cobalt	100	0.6	18.3	ND	< 50	< 50	< 50	< 50	< 50	< 250	< 50
Copper	1,300	80	65.6	**1.56 ER**	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Iron	300	1,400	431,000	**22,000**	**26,200**	**27,800**	**45,600**	**32,700**	**165,000**	**1,630,000**	**121,000**
Lead	5	15[2]	22.7	**3.19 ER**	< 3	< 3	< 3	< 3	**6.8**	< 15	**19.1**
Magnesium	NLE	NLE	62,700	**5,340**	**5,220**	**5,160**	< 5000	< 5000	**8,080**	< 25000	**9,400**
Manganese	50	32	331	**55.6**	**67.4**	**66.1**	**58.5**	**58.2**	**108**	**231**	**124**
Mercury	2	0.063	0.26	ND	< 0.5	< 0.5	< 0.19	< 0.2	< 0.2	< 1.6	**0.35**
Nickel	100	39	187	ND	< 10	< 10	< 10	< 10	< 10	< 50	**16.3**
Potassium	NLE	NLE	137,000	**8,310**	< 10000	< 10000	< 10000	< 10000	**10,400**	< 50000	**14,900**
Selenium	40	10	29.6	ND	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Silver	40	9.4	ND	**2.8**	< 10	< 10	< 10	< 10	< 10	< 50	< 10
Sodium	50,000	NLE	21,500	**17,900**	**22,000**	**22,100**	**22,200**	**22,000**	**28,000**	< 50000	**34,000**
Thallium	2	0.02	5.5	ND	< 2	< 2	< 2	< 2	< 2	< 10	< 2
Vanadium	NLE	8.6	108	ND	< 50	< 50	< 50	< 50	< 50	< 250	**63.9**
Zinc	2,000	600	233	ND	< 20	< 20	< 20	< 20	**26**	< 100	**111**

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW05	M2MW06			M2MW06			
Sample ID				FTMM02-GW-M2MW05-53-Dup	FTMM02-GW-M2MW06-41	FTMM02-GW-M2MW06-42	FTMM02-GW-M2MW06-43	FTMM02-GW-M2MW06-44	FTMM02-GW-M2MW06-45	FTMM02-GW-M2MW06-46	FTMM02-GW-M2MW06-47
Sample Date				8/23/2011	3/17/2008	5/23/2008	8/26/2008	12/27/2008	3/28/2009	6/22/2009	9/22/2009
Sample Round				53	41	42	43	44	45	46	47
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	ND	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	**0.38 J**	**0.42 J**	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	**0.41 J**	**0.4 J**	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	**1.94 J**	**2.2**	ND	**0.56 J**	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	**0.19 J**	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	**12.83**	**9.47**	**0.89 J**	**20.52**	**3.65**	**3.19**	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	ND	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	NA	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	**9**	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	ND	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	ND	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	ND	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	**18**	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	ND	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	ND	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	**0.027**	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	ND	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	ND	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	**0.043**	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	ND	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	ND	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	ND	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	ND	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	**0.045**	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW05	M2MW06			M2MW06			
Sample ID				FTMM02-GW-M2MW05-53-Dup	FTMM02-GW-M2MW06-41	FTMM02-GW-M2MW06-42	FTMM02-GW-M2MW06-43	FTMM02-GW-M2MW06-44	FTMM02-GW-M2MW06-45	FTMM02-GW-M2MW06-46	FTMM02-GW-M2MW06-47
Sample Date				8/23/2011	3/17/2008	5/23/2008	8/26/2008	12/27/2008	3/28/2009	6/22/2009	9/22/2009
Sample Round				53	41	42	43	44	45	46	47
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	**13,700**	NA	NA	NA	NA	ND	NA	NA
Antimony	6	0.78	20.7	< 6	NA	NA	NA	NA	**23.5**	NA	NA
Arsenic	3	0.052	89.3	**20.9**	NA	NA	NA	NA	**74.1**	NA	NA
Barium	6,000	380	699	**507**	NA	NA	NA	NA	**95.4**	NA	NA
Beryllium	1	2.5	2.1	**1.3**	NA	NA	NA	NA	ND	NA	NA
Cadmium	4	0.92	9.5	< 3	NA	NA	NA	NA	ND	NA	NA
Calcium	NLE	NLE	45,400	**51,000**	NA	NA	NA	NA	**56,500**	NA	NA
Chromium	70	NLE	191	**153**	NA	NA	NA	NA	ND	NA	NA
Cobalt	100	0.6	18.3	< 50	NA	NA	NA	NA	ND	NA	NA
Copper	1,300	80	65.6	< 10	NA	NA	NA	NA	ND	NA	NA
Iron	300	1,400	431,000	**148,000**	NA	NA	NA	NA	**12,700**	NA	NA
Lead	5	15[2]	22.7	**20.6**	NA	NA	NA	NA	**3.11 ER**	NA	NA
Magnesium	NLE	NLE	62,700	**11,000**	NA	NA	NA	NA	**5,420**	NA	NA
Manganese	50	32	331	**147**	NA	NA	NA	NA	**83**	NA	NA
Mercury	2	0.063	0.26	**0.47**	NA	NA	NA	NA	ND	NA	NA
Nickel	100	39	187	**16**	NA	NA	NA	NA	ND	NA	NA
Potassium	NLE	NLE	137,000	**17,300**	NA	NA	NA	NA	**6,960**	NA	NA
Selenium	40	10	29.6	**11.7**	NA	NA	NA	NA	**117**	NA	NA
Silver	40	9.4	ND	< 10	NA	NA	NA	NA	ND	NA	NA
Sodium	50,000	NLE	21,500	**35,600**	NA	NA	NA	NA	**9,830**	NA	NA
Thallium	2	0.02	5.5	< 2	NA	NA	NA	NA	ND	NA	NA
Vanadium	NLE	8.6	108	**88.4**	NA	NA	NA	NA	**1.73**	NA	NA
Zinc	2,000	600	233	**147**	NA	NA	NA	NA	**3.13**	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW06			M2MW06				
Sample ID				FTMM02-GW-M2MW06-48	FTMM02-GW-M2MW06-49	FTMM02-GW-M2MW06-50	FTMM02-GW-M2MW06-51	FTMM02-GW-M2MW06-52	FTMM02-GW-M2MW06-53	FTMM02-GW-M2MW06-54	FTMM02-GW-M2MW06-55
Sample Date				12/3/2009	3/9/2010	6/11/2010	9/23/2010	12/17/2010	3/8/2011	6/14/2011	8/24/2011
Sample Round				48	49	50	51	52	53	54	55
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	ND
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	**0.17 J**	**0.27 J**	**0.28 J**
1,3-Dichlorobenzene	600	NLE	-	ND	**0.28 J**	ND	ND	ND	ND	**0.26 J**	**0.47 J**
1,4-Dichlorobenzene	75	0.48	-	ND	**1.35**	**0.86**	ND	ND	**0.68**	**0.71**	**1.3**
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	**0.17 J**	**0.38 J**
Chlorobenzene	50	7.8	-	ND	**12.58**	**8.11**	**1.37**	**1.7**	**9.62**	**11.45**	**23.1**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	**1.8**
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	ND
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	**0.19 J**	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	NA
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW06			M2MW06				
Sample ID				FTMM02-GW-M2MW06-48	FTMM02-GW-M2MW06-49	FTMM02-GW-M2MW06-50	FTMM02-GW-M2MW06-51	FTMM02-GW-M2MW06-52	FTMM02-GW-M2MW06-53	FTMM02-GW-M2MW06-54	FTMM02-GW-M2MW06-55
Sample Date				12/3/2009	3/9/2010	6/11/2010	9/23/2010	12/17/2010	3/8/2011	6/14/2011	8/24/2011
Sample Round				48	49	50	51	52	53	54	55
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	**19.6**	ND	**26.5**	< 200	< 200	< 200	**715**
Antimony	6	0.78	20.7	NA	ND	**10.2**	**10.3**	< 6	< 6	< 6	< 6
Arsenic	3	0.052	89.3	NA	**0.66 ER**	**1.01 ER**	**0.67 ER**	< 3	< 3	< 3	< 3
Barium	6,000	380	699	NA	**205**	**125**	**72.9**	< 200	**304**	< 200	**391**
Beryllium	1	2.5	2.1	NA	ND	ND	ND	< 1	**3.5**	< 1	< 1
Cadmium	4	0.92	9.5	NA	**0.614 ER**	ND	ND	< 3	< 3	< 3	< 3
Calcium	NLE	NLE	45,400	NA	**85,200**	**67,200**	**47,500**	**43,900**	**119,000**	**74,500**	**77,000**
Chromium	70	NLE	191	NA	ND	ND	ND	< 10	< 10	< 10	< 10
Cobalt	100	0.6	18.3	NA	ND	ND	ND	< 50	< 50	< 50	< 50
Copper	1,300	80	65.6	NA	ND	ND	**1.21 ER**	< 10	< 10	< 10	**14.2**
Iron	300	1,400	431,000	NA	**32,300**	**18,600**	**9,190**	**11,600**	**38,700**	**16,500**	**61,000**
Lead	5	15[2]	22.7	NA	ND	ND	ND	< 3	< 3	< 3	**11**
Magnesium	NLE	NLE	62,700	NA	**10,700**	**7,070**	**5,000**	< 5000	**10,200**	**5,870**	**11,700**
Manganese	50	32	331	NA	**453**	**173**	**70.5**	**84.2**	**318**	**513**	**731**
Mercury	2	0.063	0.26	NA	**0.08 ER**	ND	**0.31 ER**	< 0.5	< 0.2	< 0.2	< 0.2
Nickel	100	39	187	NA	ND	ND	ND	< 10	< 10	< 10	< 10
Potassium	NLE	NLE	137,000	NA	**8,460**	**6,900**	**6,760**	< 10000	**12,000**	< 10000	< 10000
Selenium	40	10	29.6	NA	ND	NA	ND	< 10	< 10	< 10	< 10
Silver	40	9.4	ND	NA	ND	**3.71**	ND	< 10	< 10	< 10	< 10
Sodium	50,000	NLE	21,500	NA	**9,910**	**11,300**	**8,110**	< 10000	**13,200**	**18,500**	**29,700**
Thallium	2	0.02	5.5	NA	ND	ND	ND	< 2	< 2	< 2	< 2
Vanadium	NLE	8.6	108	NA	**4.05**	ND	ND	< 50	< 50	< 50	< 50
Zinc	2,000	600	233	NA	**14**	ND	ND	< 20	< 20	< 20	**79.7**

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW07		M2MW07					
Sample ID				FTMM02-GW-M2MW07-39	FTMM02-GW-M2MW07-40	FTMM02-GW-M2MW07-40-Dup	FTMM02-GW-M2MW07-41	FTMM02-GW-M2MW07-42	FTMM02-GW-M2MW07-43	FTMM02-GW-M2MW07-44	FTMM02-GW-M2MW07-45
Sample Date				3/17/2008	5/23/2008	5/23/2008	8/26/2008	12/27/2008	3/28/2009	6/22/2009	9/22/2009
Sample Round				39	40	40	41	42	43	44	45
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	ND	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	ND	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	ND	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	**18**	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	ND	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	ND	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	ND	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	ND	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	ND	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	ND	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	ND	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	ND	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	ND	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	ND	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW07		M2MW07					
Sample ID				FTMM02-GW-M2MW07-39	FTMM02-GW-M2MW07-40	FTMM02-GW-M2MW07-40-Dup	FTMM02-GW-M2MW07-41	FTMM02-GW-M2MW07-42	FTMM02-GW-M2MW07-43	FTMM02-GW-M2MW07-44	FTMM02-GW-M2MW07-45
Sample Date				3/17/2008	5/23/2008	5/23/2008	8/26/2008	12/27/2008	3/28/2009	6/22/2009	9/22/2009
Sample Round				39	40	40	41	42	43	44	45
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	NA	NA	NA	ND	NA	NA
Antimony	6	0.78	20.7	NA	NA	NA	NA	NA	**18.5**	NA	NA
Arsenic	3	0.052	89.3	NA	NA	NA	NA	NA	**84.3**	NA	NA
Barium	6,000	380	699	NA	NA	NA	NA	NA	**85.7**	NA	NA
Beryllium	1	2.5	2.1	NA	NA	NA	NA	NA	ND	NA	NA
Cadmium	4	0.92	9.5	NA	NA	NA	NA	NA	ND	NA	NA
Calcium	NLE	NLE	45,400	NA	NA	NA	NA	NA	**47,300**	NA	NA
Chromium	70	NLE	191	NA	NA	NA	NA	NA	ND	NA	NA
Cobalt	100	0.6	18.3	NA	NA	NA	NA	NA	ND	NA	NA
Copper	1,300	80	65.6	NA	NA	NA	NA	NA	ND	NA	NA
Iron	300	1,400	431,000	NA	NA	NA	NA	NA	**20,100**	NA	NA
Lead	5	15[2]	22.7	NA	NA	NA	NA	NA	**5.47**	NA	NA
Magnesium	NLE	NLE	62,700	NA	NA	NA	NA	NA	**6,500**	NA	NA
Manganese	50	32	331	NA	NA	NA	NA	NA	**77.4**	NA	NA
Mercury	2	0.063	0.26	NA	NA	NA	NA	NA	ND	NA	NA
Nickel	100	39	187	NA	NA	NA	NA	NA	ND	NA	NA
Potassium	NLE	NLE	137,000	NA	NA	NA	NA	NA	**5,010**	NA	NA
Selenium	40	10	29.6	NA	NA	NA	NA	NA	**85.6**	NA	NA
Silver	40	9.4	ND	NA	NA	NA	NA	NA	ND	NA	NA
Sodium	50,000	NLE	21,500	NA	NA	NA	NA	NA	**9,230**	NA	NA
Thallium	2	0.02	5.5	NA	NA	NA	NA	NA	ND	NA	NA
Vanadium	NLE	8.6	108	NA	NA	NA	NA	NA	**2.15**	NA	NA
Zinc	2,000	600	233	NA	NA	NA	NA	NA	**3.22**	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW07	M2MW07							
Sample ID				FTMM02-GW-M2MW07-46	FTMM02-GW-M2MW07-47	FTMM02-GW-M2MW07-48	FTMM02-GW-M2MW07-49	FTMM02-GW-M2MW07-50	FTMM02-GW-M2MW07-51	FTMM02-GW-M2MW07-52	FTMM02-GW-M2MW07-53
Sample Date				12/3/2009	3/8/2010	6/10/2010	9/22/2010	12/17/2010	3/7/2011	6/13/2011	8/24/2011
Sample Round				46	47	48	49	50	51	52	53
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	ND
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	ND
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	NA
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW07	M2MW07						
Sample ID				FTMM02-GW-M2MW07-46	FTMM02-GW-M2MW07-47	FTMM02-GW-M2MW07-48	FTMM02-GW-M2MW07-49	FTMM02-GW-M2MW07-50	FTMM02-GW-M2MW07-51	FTMM02-GW-M2MW07-52	FTMM02-GW-M2MW07-53
Sample Date				12/3/2009	3/8/2010	6/10/2010	9/22/2010	12/17/2010	3/7/2011	6/13/2011	8/24/2011
Sample Round				46	47	48	49	50	51	52	53
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	**10.9**	ND	ND	< 200	< 200	< 200	**362**
Antimony	6	0.78	20.7	NA	**6.06 ER**	**10.1**	**12.6**	< 6	< 6	< 6	< 6
Arsenic	3	0.052	89.3	NA	ND	**0.9 ER**	ND	< 3	< 3	< 3	< 3
Barium	6,000	380	699	NA	**82.9**	**131**	**67.4**	< 200	< 200	**480**	**432**
Beryllium	1	2.5	2.1	NA	ND	ND	ND	< 1	**5.1**	< 1	< 1
Cadmium	4	0.92	9.5	NA	ND	ND	**0.569 ER**	< 3	< 3	< 3	< 3
Calcium	NLE	NLE	45,400	NA	**48,900**	**41,800**	**49,400**	**48,100**	**51,300**	**52,000**	**72,000**
Chromium	70	NLE	191	NA	ND	ND	ND	< 10	< 10	< 10	< 10
Cobalt	100	0.6	18.3	NA	ND	ND	ND	< 50	< 50	< 50	< 50
Copper	1,300	80	65.6	NA	ND	ND	**1.51 ER**	< 10	< 10	< 10	< 10
Iron	300	1,400	431,000	NA	**13,700**	**14,200**	**8,310**	**16,000**	**40,300**	**116,000**	**83,700**
Lead	5	15[2]	22.7	NA	ND	ND	**2.66 ER**	< 3	< 3	< 3	**4.1**
Magnesium	NLE	NLE	62,700	NA	**7,020**	**6,160**	**6,050**	**5,660**	**5,450**	< 5000	**7,830**
Manganese	50	32	331	NA	**75.1**	**64.8**	**56.9**	**63.6**	**113**	**107**	**197**
Mercury	2	0.063	0.26	NA	**0.052 ER**	ND	ND	< 0.5	< 0.2	< 0.2	< 0.2
Nickel	100	39	187	NA	ND	ND	**0.407**	< 10	< 10	< 10	< 10
Potassium	NLE	NLE	137,000	NA	**6,360**	**4,590**	**5,070**	< 10000	< 10000	< 10000	< 10000
Selenium	40	10	29.6	NA	**22**	NA	ND	< 10	< 10	< 10	< 10
Silver	40	9.4	ND	NA	ND	**3.08**	ND	< 10	< 10	< 10	< 10
Sodium	50,000	NLE	21,500	NA	**10,800**	**7,800**	**8,130**	< 10000	< 10000	< 10000	**12,900**
Thallium	2	0.02	5.5	NA	ND	ND	ND	< 2	< 2	< 2	< 2
Vanadium	NLE	8.6	108	NA	**1.87**	ND	ND	< 50	< 50	< 50	< 50
Zinc	2,000	600	233	NA	ND	ND	ND	< 20	< 20	< 20	< 20

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW07	M2MW08						M2MW08
Sample ID				FTMM02-GW-M2MW07-54-Dup	FTMM02-GW-M2MW08-39	FTMM02-GW-M2MW08-40	FTMM02-GW-M2MW08-41	FTMM02-GW-M2MW08-42	FTMM02-GW-M2MW08-43	FTMM02-GW-M2MW08-44	FTMM02-GW-M2MW08-45
Sample Date				8/24/2011	3/17/2008	5/23/2008	8/26/2008	12/27/2008	3/30/2009	6/22/2009	9/22/2009
Sample Round				53	39	40	41	42	43	44	45
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	ND	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	**7.03**	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	ND	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	NA	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	ND	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	ND	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	ND	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	**19**	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	ND	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	ND	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	ND	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	ND	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	ND	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	ND	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	**0.027**	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	ND	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	**0.038**	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	ND	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	ND	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW07	M2MW08						M2MW08
Sample ID				FTMM02-GW-M2MW07-54-Dup	FTMM02-GW-M2MW08-39	FTMM02-GW-M2MW08-40	FTMM02-GW-M2MW08-41	FTMM02-GW-M2MW08-42	FTMM02-GW-M2MW08-43	FTMM02-GW-M2MW08-44	FTMM02-GW-M2MW08-45
Sample Date				8/24/2011	3/17/2008	5/23/2008	8/26/2008	12/27/2008	3/30/2009	6/22/2009	9/22/2009
Sample Round				53	39	40	41	42	43	44	45
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	**231**	NA	NA	NA	NA	ND	NA	NA
Antimony	6	0.78	20.7	< 6	NA	NA	NA	NA	**21.9**	NA	NA
Arsenic	3	0.052	89.3	< 3	NA	NA	NA	NA	**62.7**	NA	NA
Barium	6,000	380	699	**291**	NA	NA	NA	NA	**121**	NA	NA
Beryllium	1	2.5	2.1	< 1	NA	NA	NA	NA	ND	NA	NA
Cadmium	4	0.92	9.5	< 3	NA	NA	NA	NA	ND	NA	NA
Calcium	NLE	NLE	45,400	**66,400**	NA	NA	NA	NA	**39,200**	NA	NA
Chromium	70	NLE	191	< 10	NA	NA	NA	NA	ND	NA	NA
Cobalt	100	0.6	18.3	< 50	NA	NA	NA	NA	ND	NA	NA
Copper	1,300	80	65.6	< 10	NA	NA	NA	NA	ND	NA	NA
Iron	300	1,400	431,000	**54,600**	NA	NA	NA	NA	**24,100**	NA	NA
Lead	5	15[2]	22.7	**3.3**	NA	NA	NA	NA	**7.38**	NA	NA
Magnesium	NLE	NLE	62,700	**7,380**	NA	NA	NA	NA	**4,890**	NA	NA
Manganese	50	32	331	**137**	NA	NA	NA	NA	**39.4**	NA	NA
Mercury	2	0.063	0.26	< 0.2	NA	NA	NA	NA	ND	NA	NA
Nickel	100	39	187	< 10	NA	NA	NA	NA	ND	NA	NA
Potassium	NLE	NLE	137,000	< 10000	NA	NA	NA	NA	**6,730**	NA	NA
Selenium	40	10	29.6	< 10	NA	NA	NA	NA	**96.3**	NA	NA
Silver	40	9.4	ND	< 10	NA	NA	NA	NA	ND	NA	NA
Sodium	50,000	NLE	21,500	**11,600**	NA	NA	NA	NA	**8,710**	NA	NA
Thallium	2	0.02	5.5	< 2	NA	NA	NA	NA	ND	NA	NA
Vanadium	NLE	8.6	108	< 50	NA	NA	NA	NA	**2.39**	NA	NA
Zinc	2,000	600	233	< 20	NA	NA	NA	NA	ND	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW08						M2MW08	
Sample ID				FTMM02-GW-M2MW08-46	FTMM02-GW-M2MW08-47	FTMM02-GW-M2MW08-48	FTMM02-GW-M2MW08-49	FTMM02-GW-M2MW08-50	FTMM02-GW-M2MW08-51	FTMM02-GW-M2MW08-52	FTMM02-GW-M2MW08-52-Dup
Sample Date				12/3/2009	3/8/2010	6/10/2010	9/22/2010	12/17/2010	3/4/2011	6/14/2011	6/14/2011
Sample Round				46	47	48	49	50	51	52	52
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW08						M2MW08	
Sample ID				FTMM02-GW-M2MW08-46	FTMM02-GW-M2MW08-47	FTMM02-GW-M2MW08-48	FTMM02-GW-M2MW08-49	FTMM02-GW-M2MW08-50	FTMM02-GW-M2MW08-51	FTMM02-GW-M2MW08-52	FTMM02-GW-M2MW08-52-Dup
Sample Date				12/3/2009	3/8/2010	6/10/2010	9/22/2010	12/17/2010	3/4/2011	6/14/2011	6/14/2011
Sample Round				46	47	48	49	50	51	52	52
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	ND	ND	ND	< 200	< 200	**1,040**	**418**
Antimony	6	0.78	20.7	NA	ND	**9.29 ER**	**13.1**	< 6	< 6	< 6	< 6
Arsenic	3	0.052	89.3	NA	ND	ND	ND	< 3	< 3	**8.2**	**4**
Barium	6,000	380	699	NA	**99.8**	**67.4**	**55.3**	< 200	< 200	**1,910**	**905**
Beryllium	1	2.5	2.1	NA	ND	ND	ND	< 1	**1.8**	< 1	< 1
Cadmium	4	0.92	9.5	NA	ND	ND	**0.863 ER**	< 3	< 3	< 3	< 3
Calcium	NLE	NLE	45,400	NA	**38,800**	**33,400**	**43,600**	**39,700**	**37,000**	**47,400**	**39,200**
Chromium	70	NLE	191	NA	ND	ND	ND	< 10	< 10	**13.9**	< 10
Cobalt	100	0.6	18.3	NA	ND	ND	ND	< 50	< 50	< 50	< 50
Copper	1,300	80	65.6	NA	ND	ND	**1.49 ER**	< 10	< 10	< 10	< 10
Iron	300	1,400	431,000	NA	**26,700**	**12,400**	**14,500**	**26,200**	**39,300**	**310,000**	**173,000**
Lead	5	15[2]	22.7	NA	ND	ND	ND	< 3	< 3	**6.4**	< 3
Magnesium	NLE	NLE	62,700	NA	**5,130**	**4,450**	**5,680**	< 5000	< 5000	< 5000	< 5000
Manganese	50	32	331	NA	**36.8**	**31.8**	**40**	**50.6**	**39.6**	**121**	**82.8**
Mercury	2	0.063	0.26	NA	ND	ND	ND	< 0.5	< 0.2	< 0.4	< 0.2
Nickel	100	39	187	NA	ND	ND	ND	< 10	< 10	< 10	< 10
Potassium	NLE	NLE	137,000	NA	**7,820**	**5,890**	**7,540**	< 10000	< 10000	< 10000	< 10000
Selenium	40	10	29.6	NA	ND	NA	ND	< 10	< 10	< 10	< 10
Silver	40	9.4	ND	NA	ND	**2.43**	**1.51**	< 10	< 10	< 10	< 10
Sodium	50,000	NLE	21,500	NA	**8,830**	**7,960**	**9,070**	< 10000	< 10000	< 10000	< 10000
Thallium	2	0.02	5.5	NA	ND	ND	ND	< 2	< 2	< 2	< 2
Vanadium	NLE	8.6	108	NA	**3.4**	ND	ND	< 50	< 50	< 50	< 50
Zinc	2,000	600	233	NA	ND	ND	ND	< 20	< 20	< 20	< 20

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW08	M2MW09				M2MW09		
Sample ID				FTMM02-GW-M2MW08-53	FTMM02-GW-M2MW09-41	FTMM02-GW-M2MW09-42	FTMM02-GW-M2MW09-43	FTMM02-GW-M2MW09-44	FTMM02-GW-M2MW09-45	FTMM02-GW-M2MW09-46	FTMM02-GW-M2MW09-47
Sample Date				8/24/2011	3/17/2008	5/23/2008	8/26/2008	12/27/2008	3/28/2009	6/22/2009	9/22/2009
Sample Round				53	41	42	43	44	45	46	47
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	ND	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	**0.24 J**	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	ND	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	NA	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	ND	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	ND	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	ND	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	**19**	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	**0.034**	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	**0.034**	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	**0.044**	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	ND	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	ND	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	ND	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	ND	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	**0.031**	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	**0.028**	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	ND	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	**0.026**	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	ND	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	**0.023**	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	**0.034**	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	ND	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	**0.034**	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	**0.027**	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	**0.052**	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW08	M2MW09				M2MW09		
Sample ID				FTMM02-GW-M2MW08-53	FTMM02-GW-M2MW09-41	FTMM02-GW-M2MW09-42	FTMM02-GW-M2MW09-43	FTMM02-GW-M2MW09-44	FTMM02-GW-M2MW09-45	FTMM02-GW-M2MW09-46	FTMM02-GW-M2MW09-47
Sample Date				8/24/2011	3/17/2008	5/23/2008	8/26/2008	12/27/2008	3/28/2009	6/22/2009	9/22/2009
Sample Round				53	41	42	43	44	45	46	47
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	**295**	NA	NA	NA	NA	ND	NA	NA
Antimony	6	0.78	20.7	< 6	NA	NA	NA	NA	**13.5**	NA	NA
Arsenic	3	0.052	89.3	< 3	NA	NA	NA	NA	**90.1**	NA	NA
Barium	6,000	380	699	**257**	NA	NA	NA	NA	**42.2**	NA	NA
Beryllium	1	2.5	2.1	< 1	NA	NA	NA	NA	ND	NA	NA
Cadmium	4	0.92	9.5	< 3	NA	NA	NA	NA	ND	NA	NA
Calcium	NLE	NLE	45,400	**30,400**	NA	NA	NA	NA	**50,600**	NA	NA
Chromium	70	NLE	191	< 10	NA	NA	NA	NA	**0.442 ER**	NA	NA
Cobalt	100	0.6	18.3	< 50	NA	NA	NA	NA	ND	NA	NA
Copper	1,300	80	65.6	< 10	NA	NA	NA	NA	**1.05 ER**	NA	NA
Iron	300	1,400	431,000	**67,100**	NA	NA	NA	NA	**3,240**	NA	NA
Lead	5	15[2]	22.7	**3.2**	NA	NA	NA	NA	**2.01 ER**	NA	NA
Magnesium	NLE	NLE	62,700	< 5000	NA	NA	NA	NA	**4,380**	NA	NA
Manganese	50	32	331	**52.7**	NA	NA	NA	NA	**291**	NA	NA
Mercury	2	0.063	0.26	< 0.2	NA	NA	NA	NA	ND	NA	NA
Nickel	100	39	187	< 10	NA	NA	NA	NA	ND	NA	NA
Potassium	NLE	NLE	137,000	< 10000	NA	NA	NA	NA	**5,260**	NA	NA
Selenium	40	10	29.6	< 10	NA	NA	NA	NA	**117**	NA	NA
Silver	40	9.4	ND	< 10	NA	NA	NA	NA	ND	NA	NA
Sodium	50,000	NLE	21,500	< 10000	NA	NA	NA	NA	**8,140**	NA	NA
Thallium	2	0.02	5.5	< 2	NA	NA	NA	NA	ND	NA	NA
Vanadium	NLE	8.6	108	< 50	NA	NA	NA	NA	**1.01**	NA	NA
Zinc	2,000	600	233	< 20	NA	NA	NA	NA	**21.1**	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW09				M2MW09			
Sample ID				FTMM02-GW-M2MW09-48	FTMM02-GW-M2MW09-49	FTMM02-GW-M2MW09-50	FTMM02-GW-M2MW09-51	FTMM02-GW-M2MW09-52	FTMM02-GW-M2MW09-53	FTMM02-GW-M2MW09-54	FTMM02-GW-M2MW09-55
Sample Date				12/3/2009	3/8/2010	6/10/2010	9/22/2010	12/17/2010	3/7/2011	6/14/2011	8/24/2011
Sample Round				48	49	50	51	52	53	54	55
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	ND
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	**0.28 J**	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	ND
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	NA
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	**4**	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW09				M2MW09			
Sample ID				FTMM02-GW-M2MW09-48	FTMM02-GW-M2MW09-49	FTMM02-GW-M2MW09-50	FTMM02-GW-M2MW09-51	FTMM02-GW-M2MW09-52	FTMM02-GW-M2MW09-53	FTMM02-GW-M2MW09-54	FTMM02-GW-M2MW09-55
Sample Date				12/3/2009	3/8/2010	6/10/2010	9/22/2010	12/17/2010	3/7/2011	6/14/2011	8/24/2011
Sample Round				48	49	50	51	52	53	54	55
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	**75.5**	ND	**17.2**	< 200	**285**	**568**	**854**
Antimony	6	0.78	20.7	NA	**5.73 ER**	**6.82 ER**	**12.2**	< 6	< 6	< 6	< 6
Arsenic	3	0.052	89.3	NA	**1.04 ER**	ND	ND	< 3	< 3	< 3	< 3
Barium	6,000	380	699	NA	**56.9**	**30.5**	**41.6**	< 200	< 200	< 200	< 200
Beryllium	1	2.5	2.1	NA	ND	ND	ND	< 1	**3.1**	< 1	< 1
Cadmium	4	0.92	9.5	NA	ND	ND	**0.966 ER**	< 3	< 3	< 3	< 3
Calcium	NLE	NLE	45,400	NA	**56,400**	**43,100**	**54,800**	**53,200**	**54,700**	**51,500**	**48,900**
Chromium	70	NLE	191	NA	ND	ND	ND	< 10	< 10	< 10	< 10
Cobalt	100	0.6	18.3	NA	ND	ND	ND	< 50	< 50	< 50	< 50
Copper	1,300	80	65.6	NA	ND	ND	**1.32 ER**	< 10	< 10	< 10	< 10
Iron	300	1,400	431,000	NA	**6,010**	ND	**5,590**	**6,470**	**14,700**	**25,700**	**15,500**
Lead	5	15[2]	22.7	NA	ND	ND	ND	< 3	< 3	< 3	**4.3**
Magnesium	NLE	NLE	62,700	NA	**5,150**	**3,910**	**5,040**	< 5000	< 5000	< 5000	< 5000
Manganese	50	32	331	NA	**439**	**286**	**273**	**282**	**442**	**577**	**362**
Mercury	2	0.063	0.26	NA	ND	ND	ND	< 0.5	< 0.2	< 0.2	< 0.2
Nickel	100	39	187	NA	ND	**0.597 ER**	ND	< 10	< 10	< 10	< 10
Potassium	NLE	NLE	137,000	NA	**7,070**	**4,800**	**6,080**	< 10000	< 10000	< 10000	< 10000
Selenium	40	10	29.6	NA	**35.5**	NA	ND	< 10	< 10	< 10	< 10
Silver	40	9.4	ND	NA	**1.39**	**0.818**	ND	< 10	< 10	< 10	< 10
Sodium	50,000	NLE	21,500	NA	**10,900**	**7,280**	**11,100**	**10,100**	**11,400**	< 10000	< 10000
Thallium	2	0.02	5.5	NA	ND	ND	ND	< 2	< 2	< 2	< 2
Vanadium	NLE	8.6	108	NA	**1.78**	ND	ND	< 50	< 50	< 50	< 50
Zinc	2,000	600	233	NA	**36.9**	**15.1**	**17.4**	< 20	**104**	**112**	**118**

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW10			M2MW10				
Sample ID				FTMM02-GW-M2MW10-39	FTMM02-GW-M2MW10-40	FTMM02-GW-M2MW10-41	FTMM02-GW-M2MW10-42	FTMM02-GW-M2MW10-43	FTMM02-GW-M2MW10-44	FTMM02-GW-M2MW10-45	FTMM02-GW-M2MW10-46
Sample Date				3/17/2008	5/23/2008	8/26/2008	12/27/2008	3/30/2009	6/22/2009	9/22/2009	12/3/2009
Sample Round				39	40	41	42	43	44	45	46
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	**4**	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	ND	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	ND	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	ND	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	**14**	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	ND	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	ND	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	ND	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	ND	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	ND	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	ND	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	ND	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	ND	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	ND	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	ND	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	ND	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	ND	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW10			M2MW10				
Sample ID				FTMM02-GW-M2MW10-39	FTMM02-GW-M2MW10-40	FTMM02-GW-M2MW10-41	FTMM02-GW-M2MW10-42	FTMM02-GW-M2MW10-43	FTMM02-GW-M2MW10-44	FTMM02-GW-M2MW10-45	FTMM02-GW-M2MW10-46
Sample Date				3/17/2008	5/23/2008	8/26/2008	12/27/2008	3/30/2009	6/22/2009	9/22/2009	12/3/2009
Sample Round				39	40	41	42	43	44	45	46
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	NA	NA	ND	NA	NA	NA
Antimony	6	0.78	20.7	NA	NA	NA	NA	**19.8**	NA	NA	NA
Arsenic	3	0.052	89.3	NA	NA	NA	NA	**70.4**	NA	NA	NA
Barium	6,000	380	699	NA	NA	NA	NA	**56.8**	NA	NA	NA
Beryllium	1	2.5	2.1	NA	NA	NA	NA	ND	NA	NA	NA
Cadmium	4	0.92	9.5	NA	NA	NA	NA	ND	NA	NA	NA
Calcium	NLE	NLE	45,400	NA	NA	NA	NA	**47,100**	NA	NA	NA
Chromium	70	NLE	191	NA	NA	NA	NA	ND	NA	NA	NA
Cobalt	100	0.6	18.3	NA	NA	NA	NA	ND	NA	NA	NA
Copper	1,300	80	65.6	NA	NA	NA	NA	ND	NA	NA	NA
Iron	300	1,400	431,000	NA	NA	NA	NA	**3,960**	NA	NA	NA
Lead	5	15[2]	22.7	NA	NA	NA	NA	**4.78 ER**	NA	NA	NA
Magnesium	NLE	NLE	62,700	NA	NA	NA	NA	**3,420**	NA	NA	NA
Manganese	50	32	331	NA	NA	NA	NA	**48.9**	NA	NA	NA
Mercury	2	0.063	0.26	NA	NA	NA	NA	ND	NA	NA	NA
Nickel	100	39	187	NA	NA	NA	NA	ND	NA	NA	NA
Potassium	NLE	NLE	137,000	NA	NA	NA	NA	**5,660**	NA	NA	NA
Selenium	40	10	29.6	NA	NA	NA	NA	**102**	NA	NA	NA
Silver	40	9.4	ND	NA	NA	NA	NA	ND	NA	NA	NA
Sodium	50,000	NLE	21,500	NA	NA	NA	NA	**8,840**	NA	NA	NA
Thallium	2	0.02	5.5	NA	NA	NA	NA	ND	NA	NA	NA
Vanadium	NLE	8.6	108	NA	NA	NA	NA	**0.874**	NA	NA	NA
Zinc	2,000	600	233	NA	NA	NA	NA	ND	NA	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

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RSL values were current at the time the screening was conducted.

NA = Not analyzed.
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< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW10		M2MW10					
Sample ID				FTMM02-GW-M2MW10-47	FTMM02-GW-M2MW10-48	FTMM02-GW-M2MW10-48-Dup	FTMM02-GW-M2MW10-49	FTMM02-GW-M2MW10-49-Dup	FTMM02-GW-M2MW10-50	FTMM02-GW-M2MW10-51	FTMM02-GW-M2MW10-51-Dup
Sample Date				3/8/2010	6/10/2010	6/10/2010	9/23/2010	9/23/2010	12/17/2010	3/7/2011	3/7/2011
Sample Round				47	48	48	49	49	50	51	51
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW10		M2MW10					
Sample ID				FTMM02-GW-M2MW10-47	FTMM02-GW-M2MW10-48	FTMM02-GW-M2MW10-48-Dup	FTMM02-GW-M2MW10-49	FTMM02-GW-M2MW10-49-Dup	FTMM02-GW-M2MW10-50	FTMM02-GW-M2MW10-51	FTMM02-GW-M2MW10-51-Dup
Sample Date				3/8/2010	6/10/2010	6/10/2010	9/23/2010	9/23/2010	12/17/2010	3/7/2011	3/7/2011
Sample Round				47	48	48	49	49	50	51	51
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	ND	ND	ND	ND	ND	< 200	< 200	< 200
Antimony	6	0.78	20.7	ND	**7.21 ER**	**12.7**	**15.6**	**17.9**	< 6	< 6	< 6
Arsenic	3	0.052	89.3	ND	**0.94 ER**	**0.66 ER**	**0.87 ER**	ND	< 3	< 3	< 3
Barium	6,000	380	699	**27.1**	**22.8**	**28**	**29.1**	**29.9**	< 200	< 200	< 200
Beryllium	1	2.5	2.1	ND	ND	ND	ND	ND	< 1	**3.9**	**4.1**
Cadmium	4	0.92	9.5	ND	ND	ND	**0.503 ER**	ND	< 3	< 3	< 3
Calcium	NLE	NLE	45,400	**50,000**	**37,100**	**42,200**	**56,500**	**56,400**	**48,900**	**47,400**	**49,700**
Chromium	70	NLE	191	ND	ND	ND	ND	ND	< 10	< 10	< 10
Cobalt	100	0.6	18.3	ND	ND	ND	ND	ND	< 50	< 50	< 50
Copper	1,300	80	65.6	ND	ND	ND	ND	ND	< 10	< 10	< 10
Iron	300	1,400	431,000	**1,300**	**1,170**	**1,390**	**1,490**	**1,530**	**3,730**	**9,250**	**10,000**
Lead	5	15[2]	22.7	ND	ND	ND	ND	ND	< 3	< 3	< 3
Magnesium	NLE	NLE	62,700	**3,760**	**2,960**	**3,310**	**4,240**	**4,270**	< 5000	< 5000	< 5000
Manganese	50	32	331	**45.5**	**40.4**	**45.8**	**58.5**	**58.9**	**84.8**	**69.2**	**74.7**
Mercury	2	0.063	0.26	ND	ND	ND	**0.29**	**0.31 ER**	< 0.5	< 0.2	< 0.2
Nickel	100	39	187	ND	ND	ND	ND	ND	< 10	< 10	< 10
Potassium	NLE	NLE	137,000	**7,040**	**4,550**	**5,190**	**6,830**	**6,790**	< 10000	< 10000	< 10000
Selenium	40	10	29.6	**49.5**	NA	NA	ND	ND	< 10	< 10	< 10
Silver	40	9.4	ND	**2.5**	**0.788**	ND	ND	ND	< 10	< 10	< 10
Sodium	50,000	NLE	21,500	**9,830**	**6,580**	**8,010**	**8,870**	**8,940**	< 10000	< 10000	< 10000
Thallium	2	0.02	5.5	ND	ND	**1.83 ER**	ND	ND	< 2	< 2	< 2
Vanadium	NLE	8.6	108	**1.38**	ND	ND	ND	ND	< 50	< 50	< 50
Zinc	2,000	600	233	ND	ND	ND	ND	ND	< 20	< 20	< 20

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW10	M2MW10		M2MW11				
Sample ID				FTMM02-GW-M2MW10-52	FTMM02-GW-M2MW10-53	FTMM02-GW-M2MW10-53-Dup	FTMM02-GW-M2MW11-33	FTMM02-GW-M2MW11-34	FTMM02-GW-M2MW11-35	FTMM02-GW-M2MW11-36	FTMM02-GW-M2MW11-37
Sample Date				6/14/2011	8/22/2011	8/22/2011	3/18/2008	5/22/2008	8/26/2008	12/23/2008	3/28/2009
Sample Round				52	53	53	33	34	35	36	37
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	ND	ND	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	**68.23**	**54.5**	**48.43**	**100.78 E**	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	ND	ND	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	NA	NA	**11.96**	**10.85**	**8.21**	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	ND
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	ND
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	ND
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	**22**
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	ND
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	ND
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	ND
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	ND
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	ND
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	ND
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	**0.027**
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	**0.025**
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	ND
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	**0.033**
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	ND
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	**0.048**

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW10	M2MW10		M2MW11				
Sample ID				FTMM02-GW-M2MW10-52	FTMM02-GW-M2MW10-53	FTMM02-GW-M2MW10-53-Dup	FTMM02-GW-M2MW11-33	FTMM02-GW-M2MW11-34	FTMM02-GW-M2MW11-35	FTMM02-GW-M2MW11-36	FTMM02-GW-M2MW11-37
Sample Date				6/14/2011	8/22/2011	8/22/2011	3/18/2008	5/22/2008	8/26/2008	12/23/2008	3/28/2009
Sample Round				52	53	53	33	34	35	36	37
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	**949**	**1,610**	**1,610**	NA	NA	NA	NA	ND
Antimony	6	0.78	20.7	< 6	< 6	< 6	NA	NA	NA	NA	**27**
Arsenic	3	0.052	89.3	< 3	< 3	< 3	NA	NA	NA	NA	**56.7**
Barium	6,000	380	699	**675**	**447**	**670**	NA	NA	NA	NA	**28.1**
Beryllium	1	2.5	2.1	< 1	< 1	< 1	NA	NA	NA	NA	ND
Cadmium	4	0.92	9.5	< 3	< 3	< 3	NA	NA	NA	NA	ND
Calcium	NLE	NLE	45,400	**56,200**	**53,800**	**57,000**	NA	NA	NA	NA	**34,200**
Chromium	70	NLE	191	**17**	**26.7**	**28**	NA	NA	NA	NA	ND
Cobalt	100	0.6	18.3	< 50	< 50	< 50	NA	NA	NA	NA	ND
Copper	1,300	80	65.6	< 10	< 10	< 10	NA	NA	NA	NA	**0.916 ER**
Iron	300	1,400	431,000	**70,000**	**47,100**	**69,500**	NA	NA	NA	NA	**86.5**
Lead	5	15[2]	22.7	< 3	< 3	< 3	NA	NA	NA	NA	**2.24 ER**
Magnesium	NLE	NLE	62,700	< 5000	< 5000	< 5000	NA	NA	NA	NA	**3,740**
Manganese	50	32	331	**163**	**196**	**241**	NA	NA	NA	NA	**1.54**
Mercury	2	0.063	0.26	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	ND
Nickel	100	39	187	< 10	< 10	< 10	NA	NA	NA	NA	ND
Potassium	NLE	NLE	137,000	< 10000	< 10000	< 10000	NA	NA	NA	NA	**5,370**
Selenium	40	10	29.6	< 10	< 10	< 10	NA	NA	NA	NA	**111**
Silver	40	9.4	ND	< 10	< 10	< 10	NA	NA	NA	NA	ND
Sodium	50,000	NLE	21,500	< 10000	< 10000	< 10000	NA	NA	NA	NA	**3,890**
Thallium	2	0.02	5.5	< 2	< 2	< 2	NA	NA	NA	NA	ND
Vanadium	NLE	8.6	108	< 50	< 50	< 50	NA	NA	NA	NA	**0.226**
Zinc	2,000	600	233	< 20	**23.1**	**28.7**	NA	NA	NA	NA	ND

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW11							M2MW11
Sample ID				FTMM02-GW-M2MW11-37-Dup	FTMM02-GW-M2MW11-38	FTMM02-GW-M2MW11-39	FTMM02-GW-M2MW11-40	FTMM02-GW-M2MW11-41	FTMM02-GW-M2MW11-42	FTMM02-GW-M2MW11-43	FTMM02-GW-M2MW11-44
Sample Date				3/28/2009	6/22/2009	9/23/2009	12/3/2009	3/10/2010	6/14/2010	9/24/2010	12/18/2010
Sample Round				37	38	39	40	41	42	43	44
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	**12.45**	**0.2 J**	**13.39**	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	ND	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	ND	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	ND	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	ND	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	**28**	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	ND	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	ND	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	ND	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	ND	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	ND	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	ND	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	ND	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	ND	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	ND	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	ND	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	ND	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	ND	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	ND	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	ND	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	ND	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	ND	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	**0.033**	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	ND	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	ND	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW11							M2MW11
Sample ID				FTMM02-GW-M2MW11-37-Dup	FTMM02-GW-M2MW11-38	FTMM02-GW-M2MW11-39	FTMM02-GW-M2MW11-40	FTMM02-GW-M2MW11-41	FTMM02-GW-M2MW11-42	FTMM02-GW-M2MW11-43	FTMM02-GW-M2MW11-44
Sample Date				3/28/2009	6/22/2009	9/23/2009	12/3/2009	3/10/2010	6/14/2010	9/24/2010	12/18/2010
Sample Round				37	38	39	40	41	42	43	44
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	ND	NA	NA	NA	ND	ND	**27.4**	< 200
Antimony	6	0.78	20.7	**15.8**	NA	NA	NA	**7.22 ER**	**9.12 ER**	**15.4**	< 6
Arsenic	3	0.052	89.3	**66.1**	NA	NA	NA	ND	**0.93 ER**	**0.97 ER**	< 3
Barium	6,000	380	699	**28.1**	NA	NA	NA	**20.5**	**26.1**	**32.9**	< 200
Beryllium	1	2.5	2.1	ND	NA	NA	NA	ND	ND	ND	< 1
Cadmium	4	0.92	9.5	**0.344 ER**	NA	NA	NA	ND	ND	ND	< 3
Calcium	NLE	NLE	45,400	**34,100**	NA	NA	NA	**25,600**	**29,200**	**41,600**	**34,000**
Chromium	70	NLE	191	ND	NA	NA	NA	ND	ND	ND	< 10
Cobalt	100	0.6	18.3	ND	NA	NA	NA	ND	ND	ND	< 50
Copper	1,300	80	65.6	**0.899**	NA	NA	NA	ND	ND	ND	< 10
Iron	300	1,400	431,000	**63.6**	NA	NA	NA	**130**	**294**	**431**	**294**
Lead	5	15[2]	22.7	**14.4**	NA	NA	NA	ND	ND	ND	< 3
Magnesium	NLE	NLE	62,700	**3,730**	NA	NA	NA	**2,940**	**3,410**	**4,700**	< 5000
Manganese	50	32	331	**1.81**	NA	NA	NA	**0.763**	**35.5**	**19.2**	**17.3**
Mercury	2	0.063	0.26	ND	NA	NA	NA	**0.11 ER**	ND	ND	< 0.5
Nickel	100	39	187	ND	NA	NA	NA	**0.701 ER**	ND	ND	< 10
Potassium	NLE	NLE	137,000	**5,300**	NA	NA	NA	**4,000**	**4,430**	**6,390**	< 10000
Selenium	40	10	29.6	**84.9**	NA	NA	NA	**42**	NA	ND	< 10
Silver	40	9.4	ND	ND	NA	NA	NA	**1.08**	**1.18**	ND	< 10
Sodium	50,000	NLE	21,500	**3,980**	NA	NA	NA	**3,510**	**3,660**	**4,170**	< 10000
Thallium	2	0.02	5.5	ND	NA	NA	NA	**0.86 ER**	ND	ND	< 2
Vanadium	NLE	8.6	108	**0.324**	NA	NA	NA	ND	ND	ND	< 50
Zinc	2,000	600	233	ND	NA	NA	NA	ND	**4.68**	ND	< 20

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW11			M2MW12			M2MW12	
Sample ID				FTMM02-GW-M2MW11-45	FTMM02-GW-M2MW11-46	FTMM02-GW-M2MW11-47	FTMM02-GW-M2MW12-33	FTMM02-GW-M2MW12-34	FTMM02-GW-M2MW12-35	FTMM02-GW-M2MW12-36	FTMM02-GW-M2MW12-37
Sample Date				3/9/2011	6/15/2011	8/24/2011	3/18/2008	5/22/2008	8/26/2008	12/23/2008	3/30/2009
Sample Round				45	46	47	33	34	35	36	37
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	ND	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	**38.18**	**42.9**	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	ND	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	**11.2**	NA	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	ND
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	ND
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	ND
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	**12**
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	ND
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	ND
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	ND
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	ND
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	ND
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	ND
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	ND
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	**0.034**
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	ND
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	ND

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW11			M2MW12			M2MW12	
Sample ID				FTMM02-GW-M2MW11-45	FTMM02-GW-M2MW11-46	FTMM02-GW-M2MW11-47	FTMM02-GW-M2MW12-33	FTMM02-GW-M2MW12-34	FTMM02-GW-M2MW12-35	FTMM02-GW-M2MW12-36	FTMM02-GW-M2MW12-37
Sample Date				3/9/2011	6/15/2011	8/24/2011	3/18/2008	5/22/2008	8/26/2008	12/23/2008	3/30/2009
Sample Round				45	46	47	33	34	35	36	37
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	< 200	< 200	< 200	NA	NA	NA	NA	ND
Antimony	6	0.78	20.7	< 6	< 6	< 6	NA	NA	NA	NA	**22**
Arsenic	3	0.052	89.3	< 3	< 3	< 3	NA	NA	NA	NA	**66**
Barium	6,000	380	699	< 200	< 200	< 200	NA	NA	NA	NA	**30.1**
Beryllium	1	2.5	2.1	< 1	< 1	< 1	NA	NA	NA	NA	ND
Cadmium	4	0.92	9.5	< 3	< 3	< 3	NA	NA	NA	NA	ND
Calcium	NLE	NLE	45,400	**34,000**	**37,700**	**41,800**	NA	NA	NA	NA	**34,800**
Chromium	70	NLE	191	< 10	< 10	< 10	NA	NA	NA	NA	ND
Cobalt	100	0.6	18.3	< 50	< 50	< 50	NA	NA	NA	NA	ND
Copper	1,300	80	65.6	< 10	< 10	< 10	NA	NA	NA	NA	**1.14 ER**
Iron	300	1,400	431,000	**103**	< 100	**237**	NA	NA	NA	NA	**201**
Lead	5	15[2]	22.7	< 3	< 3	< 3	NA	NA	NA	NA	**2.44 ER**
Magnesium	NLE	NLE	62,700	< 5000	< 5000	< 5000	NA	NA	NA	NA	**3,580**
Manganese	50	32	331	< 15	**20.2**	**24**	NA	NA	NA	NA	**11.9**
Mercury	2	0.063	0.26	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	ND
Nickel	100	39	187	< 10	< 10	< 10	NA	NA	NA	NA	ND
Potassium	NLE	NLE	137,000	< 10000	< 10000	< 10000	NA	NA	NA	NA	**5,570**
Selenium	40	10	29.6	< 10	< 10	< 10	NA	NA	NA	NA	**101**
Silver	40	9.4	ND	< 10	< 10	< 10	NA	NA	NA	NA	ND
Sodium	50,000	NLE	21,500	< 10000	< 10000	< 10000	NA	NA	NA	NA	**3,560**
Thallium	2	0.02	5.5	< 2	< 2	< 2	NA	NA	NA	NA	ND
Vanadium	NLE	8.6	108	< 50	< 50	< 50	NA	NA	NA	NA	**0.629**
Zinc	2,000	600	233	< 20	< 20	< 20	NA	NA	NA	NA	ND

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW12					M2MW12		
Sample ID				FTMM02-GW-M2MW12-38	FTMM02-GW-M2MW12-39	FTMM02-GW-M2MW12-40	FTMM02-GW-M2MW12-41	FTMM02-GW-M2MW12-41-Dup	FTMM02-GW-M2MW12-42	FTMM02-GW-M2MW12-42-Dup	FTMM02-GW-M2MW12-43
Sample Date				6/22/2009	9/23/2009	12/3/2009	3/9/2010	3/9/2010	6/11/2010	6/11/2010	9/23/2010
Sample Round				38	39	40	41	41	42	42	43
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW12					M2MW12		
Sample ID				FTMM02-GW-M2MW12-38	FTMM02-GW-M2MW12-39	FTMM02-GW-M2MW12-40	FTMM02-GW-M2MW12-41	FTMM02-GW-M2MW12-41-Dup	FTMM02-GW-M2MW12-42	FTMM02-GW-M2MW12-42-Dup	FTMM02-GW-M2MW12-43
Sample Date				6/22/2009	9/23/2009	12/3/2009	3/9/2010	3/9/2010	6/11/2010	6/11/2010	9/23/2010
Sample Round				38	39	40	41	41	42	42	43
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	NA	ND	ND	ND	ND	**11.1**
Antimony	6	0.78	20.7	NA	NA	NA	ND	ND	**6.79 ER**	**7.79 ER**	**11.1**
Arsenic	3	0.052	89.3	NA	NA	NA	**0.69 ER**	ND	**1.5 ER**	**0.7 ER**	ND
Barium	6,000	380	699	NA	NA	NA	**30**	**29.4**	**27.2**	**26.6**	**32.8**
Beryllium	1	2.5	2.1	NA	NA	NA	ND	ND	ND	ND	ND
Cadmium	4	0.92	9.5	NA	NA	NA	ND	ND	ND	ND	ND
Calcium	NLE	NLE	45,400	NA	NA	NA	**35,100**	**34,600**	**30,000**	**29,500**	**40,200**
Chromium	70	NLE	191	NA	NA	NA	ND	ND	ND	ND	ND
Cobalt	100	0.6	18.3	NA	NA	NA	ND	ND	ND	ND	ND
Copper	1,300	80	65.6	NA	NA	NA	ND	ND	ND	ND	ND
Iron	300	1,400	431,000	NA	NA	NA	ND	**76.9**	**468**	**430**	**464**
Lead	5	15[2]	22.7	NA	NA	NA	ND	ND	ND	ND	ND
Magnesium	NLE	NLE	62,700	NA	NA	NA	**4,040**	**4,020**	**3,510**	**3,450**	**4,530**
Manganese	50	32	331	NA	NA	NA	**7.54**	**7.59**	**57.7**	**53.4**	**18.5**
Mercury	2	0.063	0.26	NA	NA	NA	ND	ND	ND	ND	**0.29 ER**
Nickel	100	39	187	NA	NA	NA	ND	ND	ND	ND	ND
Potassium	NLE	NLE	137,000	NA	NA	NA	**5,980**	**5,910**	**4,650**	**4,540**	**6,130**
Selenium	40	10	29.6	NA	NA	NA	**41**	**38.6**	NA	NA	ND
Silver	40	9.4	ND	NA	NA	NA	**1.76**	**2.01**	**1.02**	**1.01**	ND
Sodium	50,000	NLE	21,500	NA	NA	NA	**3,170**	**3,210**	**2,730**	**2,360**	**3,410**
Thallium	2	0.02	5.5	NA	NA	NA	ND	ND	ND	ND	ND
Vanadium	NLE	8.6	108	NA	NA	NA	**0.732**	**0.856**	ND	ND	ND
Zinc	2,000	600	233	NA	NA	NA	ND	ND	ND	ND	ND

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW12				M2MW13			
Sample ID				FTMM02-GW-M2MW12-44	FTMM02-GW-M2MW12-45	FTMM02-GW-M2MW12-46	FTMM02-GW-M2MW12-47	FTMM02-GW-M2MW13-33	FTMM02-GW-M2MW13-34	FTMM02-GW-M2MW13-35	FTMM02-GW-M2MW13-36
Sample Date				12/15/2010	3/4/2011	6/14/2011	8/24/2011	3/17/2008	5/22/2008	8/27/2008	12/23/2008
Sample Round				44	45	46	47	33	34	35	36
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	ND	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	ND	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	NA	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW12				M2MW13			
Sample ID				FTMM02-GW-M2MW12-44	FTMM02-GW-M2MW12-45	FTMM02-GW-M2MW12-46	FTMM02-GW-M2MW12-47	FTMM02-GW-M2MW13-33	FTMM02-GW-M2MW13-34	FTMM02-GW-M2MW13-35	FTMM02-GW-M2MW13-36
Sample Date				12/15/2010	3/4/2011	6/14/2011	8/24/2011	3/17/2008	5/22/2008	8/27/2008	12/23/2008
Sample Round				44	45	46	47	33	34	35	36
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	< 200	< 200	< 200	< 200	NA	NA	NA	NA
Antimony	6	0.78	20.7	< 6	< 6	< 6	< 6	NA	NA	NA	NA
Arsenic	3	0.052	89.3	< 3	< 3	< 3	< 3	NA	NA	NA	NA
Barium	6,000	380	699	< 200	< 200	< 200	< 200	NA	NA	NA	NA
Beryllium	1	2.5	2.1	< 1	< 1	< 1	< 1	NA	NA	NA	NA
Cadmium	4	0.92	9.5	< 3	< 3	< 3	< 3	NA	NA	NA	NA
Calcium	NLE	NLE	45,400	**35,800**	**34,200**	**43,200**	**43,500**	NA	NA	NA	NA
Chromium	70	NLE	191	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Cobalt	100	0.6	18.3	< 50	< 50	< 50	< 50	NA	NA	NA	NA
Copper	1,300	80	65.6	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Iron	300	1,400	431,000	**288**	**197**	**249**	**266**	NA	NA	NA	NA
Lead	5	15[2]	22.7	< 3	< 3	< 3	< 3	NA	NA	NA	NA
Magnesium	NLE	NLE	62,700	< 5000	< 5000	< 5000	< 5000	NA	NA	NA	NA
Manganese	50	32	331	**17.2**	< 15	**20.6**	**28**	NA	NA	NA	NA
Mercury	2	0.063	0.26	< 0.5	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA
Nickel	100	39	187	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Potassium	NLE	NLE	137,000	< 10000	< 10000	< 10000	< 10000	NA	NA	NA	NA
Selenium	40	10	29.6	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Silver	40	9.4	ND	< 10	< 10	< 10	< 10	NA	NA	NA	NA
Sodium	50,000	NLE	21,500	< 10000	< 10000	< 10000	< 10000	NA	NA	NA	NA
Thallium	2	0.02	5.5	< 2	< 2	< 2	< 2	NA	NA	NA	NA
Vanadium	NLE	8.6	108	< 50	< 50	< 50	< 50	NA	NA	NA	NA
Zinc	2,000	600	233	< 20	< 20	< 20	< 20	NA	NA	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW13			M2MW13				
Sample ID				FTMM02-GW-M2MW13-37	FTMM02-GW-M2MW13-38	FTMM02-GW-M2MW13-39	FTMM02-GW-M2MW13-40	FTMM02-GW-M2MW13-41	FTMM02-GW-M2MW13-42	FTMM02-GW-M2MW13-43	FTMM02-GW-M2MW13-44
Sample Date				3/30/2009	6/19/2009	9/22/2009	12/4/2009	3/9/2010	6/11/2010	9/23/2010	12/16/2010
Sample Round				37	38	39	40	41	42	43	44
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	ND	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	ND	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	ND	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	ND	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	**13**	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	ND	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	ND	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	**0.042**	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	ND	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	ND	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	ND	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	ND	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	ND	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	ND	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	**0.027**	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	ND	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	ND	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	ND	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	ND	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	**0.031**	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	ND	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	**0.035**	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	ND	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	**0.04**	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW13			M2MW13				
Sample ID				FTMM02-GW-M2MW13-37	FTMM02-GW-M2MW13-38	FTMM02-GW-M2MW13-39	FTMM02-GW-M2MW13-40	FTMM02-GW-M2MW13-41	FTMM02-GW-M2MW13-42	FTMM02-GW-M2MW13-43	FTMM02-GW-M2MW13-44
Sample Date				3/30/2009	6/19/2009	9/22/2009	12/4/2009	3/9/2010	6/11/2010	9/23/2010	12/16/2010
Sample Round				37	38	39	40	41	42	43	44
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	ND	NA	NA	NA	**8.52**	ND	**11.4**	< 200
Antimony	6	0.78	20.7	**19.4**	NA	NA	NA	ND	**8.58 ER**	**13.8**	< 6
Arsenic	3	0.052	89.3	**74.1**	NA	NA	NA	**2.53 ER**	**1.96 ER**	**1.57 ER**	**3.8**
Barium	6,000	380	699	**153**	NA	NA	NA	**138**	**108**	**111**	< 200
Beryllium	1	2.5	2.1	ND	NA	NA	NA	ND	ND	ND	< 1
Cadmium	4	0.92	9.5	ND	NA	NA	NA	ND	ND	**1.04 ER**	< 3
Calcium	NLE	NLE	45,400	**52,300**	NA	NA	NA	**43,400**	**37,600**	**48,400**	**46,800**
Chromium	70	NLE	191	ND	NA	NA	NA	ND	ND	ND	< 10
Cobalt	100	0.6	18.3	ND	NA	NA	NA	ND	ND	ND	< 50
Copper	1,300	80	65.6	ND	NA	NA	NA	ND	ND	**1.45 ER**	< 10
Iron	300	1,400	431,000	**27,300**	NA	NA	NA	**23,600**	**20,900**	**31,000**	**35,700**
Lead	5	15[2]	22.7	**5.49**	NA	NA	NA	ND	ND	**3.84 ER**	< 3
Magnesium	NLE	NLE	62,700	**5,420**	NA	NA	NA	**4,600**	**4,340**	**6,390**	**7,280**
Manganese	50	32	331	**218**	NA	NA	NA	**178**	**159**	**198**	**246**
Mercury	2	0.063	0.26	ND	NA	NA	NA	**0.08 ER**	ND	**0.32 ER**	< 0.5
Nickel	100	39	187	ND	NA	NA	NA	ND	ND	**0.452 ER**	**12.8**
Potassium	NLE	NLE	137,000	**9,720**	NA	NA	NA	**9,930**	**7,660**	**8,890**	< 10000
Selenium	40	10	29.6	**108**	NA	NA	NA	ND	NA	ND	< 10
Silver	40	9.4	ND	ND	NA	NA	NA	ND	**4.62**	**3.17**	< 10
Sodium	50,000	NLE	21,500	**20,900**	NA	NA	NA	**16,500**	**17,200**	**34,200**	**61,500**
Thallium	2	0.02	5.5	ND	NA	NA	NA	ND	ND	ND	< 2
Vanadium	NLE	8.6	108	**2.57**	NA	NA	NA	**2.79**	ND	ND	< 50
Zinc	2,000	600	233	**5.13**	NA	NA	NA	ND	ND	ND	**241**

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW13		M2MW13				M2MW15	M2MW16
Sample ID				FTMM02-GW-M2MW13-44-Dup	FTMM02-GW-M2MW13-45	FTMM02-GW-M2MW13-45-Dup	FTMM02-GW-M2MW13-46	FTMM02-GW-M2MW13-46-Dup	FTMM02-GW-M2MW13-47	FTMM02-GW-M2MW15-1	FTMM02-GW-M2MW16-1
Sample Date				12/16/2010	3/4/2011	3/4/2011	6/15/2011	6/15/2011	8/22/2011	3/14/2011	3/14/2011
Sample Round				44	45	45	46	46	47	1	1
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	ND	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	ND	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	NA	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW13		M2MW13				M2MW15	M2MW16
Sample ID				FTMM02-GW-M2MW13-44-Dup	FTMM02-GW-M2MW13-45	FTMM02-GW-M2MW13-45-Dup	FTMM02-GW-M2MW13-46	FTMM02-GW-M2MW13-46-Dup	FTMM02-GW-M2MW13-47	FTMM02-GW-M2MW15-1	FTMM02-GW-M2MW16-1
Sample Date				12/16/2010	3/4/2011	3/4/2011	6/15/2011	6/15/2011	8/22/2011	3/14/2011	3/14/2011
Sample Round				44	45	45	46	46	47	1	1
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	< 200	< 200	< 200	< 200	**216**	**459**	< 200	< 200
Antimony	6	0.78	20.7	< 6	< 6	< 6	< 6	< 6	< 6	< 6	< 6
Arsenic	3	0.052	89.3	< 3	**3.5**	< 3	**4.6**	**5.2**	**3.4**	< 3	**13**
Barium	6,000	380	699	< 200	< 200	< 200	< 200	< 200	< 200	< 200	**298**
Beryllium	1	2.5	2.1	< 1	< 1	**2.6**	< 1	< 1	< 1	< 1	< 1
Cadmium	4	0.92	9.5	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
Calcium	NLE	NLE	45,400	**48,600**	**49,800**	**48,400**	**45,100**	**45,500**	**45,500**	**49,200**	**173,000**
Chromium	70	NLE	191	< 10	< 10	< 10	< 10	< 10	**19.5**	< 10	< 10
Cobalt	100	0.6	18.3	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Copper	1,300	80	65.6	< 10	< 10	< 10	< 10	< 10	**24.4**	< 10	< 10
Iron	300	1,400	431,000	**37,000**	**26,400**	**25,500**	**30,400**	**32,400**	**34,000**	**990**	**80,500**
Lead	5	15[2]	22.7	< 3	< 3	< 3	< 3	**3.5**	**11.1**	< 3	< 3
Magnesium	NLE	NLE	62,700	**7,540**	< 5000	< 5000	**5,070**	**5,100**	**6,140**	< 5000	**24,500**
Manganese	50	32	331	**253**	**212**	**205**	**226**	**223**	**217**	< 15	**953**
Mercury	2	0.063	0.26	< 0.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Nickel	100	39	187	**13.4**	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Potassium	NLE	NLE	137,000	< 10000	**10,100**	< 10000	< 10000	< 10000	< 10000	< 10000	**14,700**
Selenium	40	10	29.6	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Silver	40	9.4	ND	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Sodium	50,000	NLE	21,500	**63,600**	**19,900**	**19,500**	**36,000**	**36,800**	**274,000**	**13,000**	**1,330,000**
Thallium	2	0.02	5.5	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Vanadium	NLE	8.6	108	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Zinc	2,000	600	233	**248**	< 20	< 20	**24**	**28.7**	**38.8**	**354**	< 20

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW17	M2MW21						
Sample ID				FTMM02-GW-M2MW17-1	FTMM02-GW-M2MW21-33	FTMM02-GW-M2MW21-34	FTMM02-GW-M2MW21-35	FTMM02-GW-M2MW21-35-Dup	FTMM02-GW-M2MW21-36	FTMM02-GW-M2MW21-37	FTMM02-GW-M2MW21-38
Sample Date				3/14/2011	3/17/2008	5/22/2008	8/27/2008	8/27/2008	12/23/2008	3/30/2009	6/19/2009
Sample Round				1	33	34	35	35	36	37	38
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	**1.62 J**	**1.39 J**	**0.65 J**	**0.66 J**	**1.38 J**	**1.36 J**	**0.9 J**
1,3-Dichlorobenzene	600	NLE	-	ND	**2.78**	**2.61**	**2.89**	**2.7**	**1.85 J**	**2.84**	**1.33 J**
1,4-Dichlorobenzene	75	0.48	-	ND	**5.43**	**4.71**	**4.04**	**3.93**	**3.96**	**5.19**	**2.46**
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	**1.42 J**	**1.07 J**	**2.03**	**1.98 J**	**1.63 J**	**1.16 J**	**0.73 J**
Chlorobenzene	50	7.8	-	ND	**39.37**	**31.25**	**46.85**	**46.84**	**34.12**	**34.61**	**15.75**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	**0.38 J**	**0.34 J**	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	**5.8**	ND	**4**	**3**	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	**0.7 J**	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	**1 J**	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	ND	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	ND	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	**23**	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	**0.093**	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	**0.069**	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	ND	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	ND	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	**0.031**	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	ND	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	ND	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	ND	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	**0.031**	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	ND	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	ND	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	ND	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	**0.04**	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	ND	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	**0.136**	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	**0.029**	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	ND	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	ND	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	**0.048**	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW17	M2MW21						
Sample ID				FTMM02-GW-M2MW17-1	FTMM02-GW-M2MW21-33	FTMM02-GW-M2MW21-34	FTMM02-GW-M2MW21-35	FTMM02-GW-M2MW21-35-Dup	FTMM02-GW-M2MW21-36	FTMM02-GW-M2MW21-37	FTMM02-GW-M2MW21-38
Sample Date				3/14/2011	3/17/2008	5/22/2008	8/27/2008	8/27/2008	12/23/2008	3/30/2009	6/19/2009
Sample Round				1	33	34	35	35	36	37	38
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	**238**	NA	NA	NA	NA	NA	ND	NA
Antimony	6	0.78	20.7	< 6	NA	NA	NA	NA	NA	**30**	NA
Arsenic	3	0.052	89.3	< 3	NA	NA	NA	NA	NA	**81.5**	NA
Barium	6,000	380	699	< 200	NA	NA	NA	NA	NA	**324**	NA
Beryllium	1	2.5	2.1	< 1	NA	NA	NA	NA	NA	ND	NA
Cadmium	4	0.92	9.5	< 3	NA	NA	NA	NA	NA	ND	NA
Calcium	NLE	NLE	45,400	**12,300**	NA	NA	NA	NA	NA	**81,500**	NA
Chromium	70	NLE	191	< 10	NA	NA	NA	NA	NA	ND	NA
Cobalt	100	0.6	18.3	< 50	NA	NA	NA	NA	NA	ND	NA
Copper	1,300	80	65.6	< 10	NA	NA	NA	NA	NA	ND	NA
Iron	300	1,400	431,000	< 100	NA	NA	NA	NA	NA	**49,100**	NA
Lead	5	15[2]	22.7	< 3	NA	NA	NA	NA	NA	**13.1**	NA
Magnesium	NLE	NLE	62,700	< 5000	NA	NA	NA	NA	NA	**4,990**	NA
Manganese	50	32	331	**44.1**	NA	NA	NA	NA	NA	**513**	NA
Mercury	2	0.063	0.26	< 0.2	NA	NA	NA	NA	NA	ND	NA
Nickel	100	39	187	< 10	NA	NA	NA	NA	NA	ND	NA
Potassium	NLE	NLE	137,000	< 10000	NA	NA	NA	NA	NA	**2,620**	NA
Selenium	40	10	29.6	< 10	NA	NA	NA	NA	NA	**78.2**	NA
Silver	40	9.4	ND	< 10	NA	NA	NA	NA	NA	ND	NA
Sodium	50,000	NLE	21,500	< 10000	NA	NA	NA	NA	NA	**17,600**	NA
Thallium	2	0.02	5.5	< 2	NA	NA	NA	NA	NA	ND	NA
Vanadium	NLE	8.6	108	< 50	NA	NA	NA	NA	NA	**4.2**	NA
Zinc	2,000	600	233	**315**	NA	NA	NA	NA	NA	**18.6**	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW21							M2MW21
Sample ID				FTMM02-GW-M2MW21-38-Dup	FTMM02-GW-M2MW21-39	FTMM02-GW-M2MW21-40	FTMM02-GW-M2MW21-40-Dup	FTMM02-GW-M2MW21-41	FTMM02-GW-M2MW21-42	FTMM02-GW-M2MW21-43	FTMM02-GW-M2MW21-44
Sample Date				6/19/2009	9/23/2009	12/4/2009	12/4/2009	3/10/2010	6/11/2010	9/24/2010	12/16/2010
Sample Round				38	39	40	40	41	42	43	44
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	**0.89 J**	**1.08**	**0.57**	**0.62**	**0.6**	**1.54**	**1.04**	**1.1**
1,3-Dichlorobenzene	600	NLE	-	**1.16 J**	**3.05**	**1.45**	**1.5**	**0.99**	**2.91**	**3.25**	**2.41**
1,4-Dichlorobenzene	75	0.48	-	**2.01**	**4.65**	**2.28**	**2.39**	**1.88**	**5.41**	**5.07**	**3.63**
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	**0.59 J**	**1.22**	**0.89**	**0.88**	**0.47 J**	**0.99**	**1.14**	**0.82**
Chlorobenzene	50	7.8	-	**10.66**	**42.93**	**24.56**	**24.52**	**12.37**	**28.84**	**50.63**	**28.79**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	**4**	ND	ND	ND	**14**	**105**	**16**
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW21							M2MW21
Sample ID				FTMM02-GW-M2MW21-38-Dup	FTMM02-GW-M2MW21-39	FTMM02-GW-M2MW21-40	FTMM02-GW-M2MW21-40-Dup	FTMM02-GW-M2MW21-41	FTMM02-GW-M2MW21-42	FTMM02-GW-M2MW21-43	FTMM02-GW-M2MW21-44
Sample Date				6/19/2009	9/23/2009	12/4/2009	12/4/2009	3/10/2010	6/11/2010	9/24/2010	12/16/2010
Sample Round				38	39	40	40	41	42	43	44
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	NA	NA	**154**	ND	**32.6**	< 200
Antimony	6	0.78	20.7	NA	NA	NA	NA	ND	**10.3**	**22.6**	< 6
Arsenic	3	0.052	89.3	NA	NA	NA	NA	ND	**1.3 ER**	**1.21 ER**	< 3
Barium	6,000	380	699	NA	NA	NA	NA	**75.5**	**267**	**467**	**533**
Beryllium	1	2.5	2.1	NA	NA	NA	NA	ND	ND	ND	< 1
Cadmium	4	0.92	9.5	NA	NA	NA	NA	ND	ND	**1.95 ER**	< 3
Calcium	NLE	NLE	45,400	NA	NA	NA	NA	**36,700**	**67,900**	**86,300**	**89,200**
Chromium	70	NLE	191	NA	NA	NA	NA	ND	ND	ND	< 10
Cobalt	100	0.6	18.3	NA	NA	NA	NA	**0.803**	ND	ND	< 50
Copper	1,300	80	65.6	NA	NA	NA	NA	**1.75 ER**	ND	**3.91 ER**	< 10
Iron	300	1,400	431,000	NA	NA	NA	NA	**12,100**	**37,200**	**57,000**	**67,400**
Lead	5	15[2]	22.7	NA	NA	NA	NA	ND	ND	**8.96**	< 3
Magnesium	NLE	NLE	62,700	NA	NA	NA	NA	**2,370**	**4,390**	**5,790**	**5,720**
Manganese	50	32	331	NA	NA	NA	NA	**148**	**430**	**513**	**614**
Mercury	2	0.063	0.26	NA	NA	NA	NA	**0.07 ER**	**0.07 ER**	ND	< 0.5
Nickel	100	39	187	NA	NA	NA	NA	**6.56**	ND	**1.79 ER**	< 10
Potassium	NLE	NLE	137,000	NA	NA	NA	NA	**2,860**	**2,530**	**4,090**	< 10000
Selenium	40	10	29.6	NA	NA	NA	NA	**30.9**	NA	ND	< 10
Silver	40	9.4	ND	NA	NA	NA	NA	ND	**6.64**	**6.32**	< 10
Sodium	50,000	NLE	21,500	NA	NA	NA	NA	**8,680**	**17,600**	**20,700**	**21,500**
Thallium	2	0.02	5.5	NA	NA	NA	NA	ND	ND	ND	< 2
Vanadium	NLE	8.6	108	NA	NA	NA	NA	**1.87**	ND	ND	< 50
Zinc	2,000	600	233	NA	NA	NA	NA	**50.2**	**19.7**	**50.3**	< 20

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW21			M2MW22			M2MW22	
Sample ID				FTMM02-GW-M2MW21-45	FTMM02-GW-M2MW21-46	FTMM02-GW-M2MW21-47	FTMM02-GW-M2MW22-33	FTMM02-GW-M2MW22-34	FTMM02-GW-M2MW22-35	FTMM02-GW-M2MW22-36	FTMM02-GW-M2MW22-37
Sample Date				3/8/2011	6/15/2011	8/22/2011	3/17/2008	5/22/2008	8/27/2008	12/23/2008	3/31/2009
Sample Round				45	46	47	33	34	35	36	37
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	**0.3 J**	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	**1.07**	**1.49**	**0.4 J**	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	**1.9**	**3.06**	**0.66 J**	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	**3.59**	**5.47**	**1.2**	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	**1.09**	**1.04**	ND	ND	ND	ND	ND	ND
Chlorobenzene	50	7.8	-	**27.19**	**37.96**	**7.5**	**0.33 J**	ND	ND	**0.33 J**	**0.32 J**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	ND	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	**0.31 J**	**0.9 J**	ND	**0.64 J**
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	NA	**251.4**	**228.05**	**416.66**	ND	**173.74**
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	**0.28 J**	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	**4**	**16**	ND	**53**	**53**	**343**	**491**	**47**
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	ND
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	ND
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	**0.9 J**
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	**450**
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	ND
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	**0.06**
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	ND
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	**0.028**
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	ND
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	ND
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	**0.057**
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	ND
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	ND
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	**0.039**
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	ND
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	**0.059**

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW21			M2MW22			M2MW22	
Sample ID				FTMM02-GW-M2MW21-45	FTMM02-GW-M2MW21-46	FTMM02-GW-M2MW21-47	FTMM02-GW-M2MW22-33	FTMM02-GW-M2MW22-34	FTMM02-GW-M2MW22-35	FTMM02-GW-M2MW22-36	FTMM02-GW-M2MW22-37
Sample Date				3/8/2011	6/15/2011	8/22/2011	3/17/2008	5/22/2008	8/27/2008	12/23/2008	3/31/2009
Sample Round				45	46	47	33	34	35	36	37
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	< 200	**204**	< 200	NA	NA	NA	NA	ND
Antimony	6	0.78	20.7	< 6	< 6	< 6	NA	NA	NA	NA	**8.77 ER**
Arsenic	3	0.052	89.3	< 3	< 3	**9**	NA	NA	NA	NA	**38.4**
Barium	6,000	380	699	**279**	**385**	< 200	NA	NA	NA	NA	**68.4**
Beryllium	1	2.5	2.1	< 1	< 1	< 1	NA	NA	NA	NA	ND
Cadmium	4	0.92	9.5	< 3	< 3	< 3	NA	NA	NA	NA	ND
Calcium	NLE	NLE	45,400	**81,200**	**88,300**	**54,100**	NA	NA	NA	NA	**32,200**
Chromium	70	NLE	191	< 10	< 10	< 10	NA	NA	NA	NA	ND
Cobalt	100	0.6	18.3	< 50	< 50	< 50	NA	NA	NA	NA	ND
Copper	1,300	80	65.6	< 10	< 10	< 10	NA	NA	NA	NA	ND
Iron	300	1,400	431,000	**42,500**	**49,500**	**37,000**	NA	NA	NA	NA	**21,800**
Lead	5	15[2]	22.7	< 3	**3.5**	**4.7**	NA	NA	NA	NA	**4.63 ER**
Magnesium	NLE	NLE	62,700	< 5000	**5,310**	< 5000	NA	NA	NA	NA	**5,070**
Manganese	50	32	331	**451**	**496**	**298**	NA	NA	NA	NA	**72.7**
Mercury	2	0.063	0.26	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	ND
Nickel	100	39	187	< 10	< 10	< 10	NA	NA	NA	NA	ND
Potassium	NLE	NLE	137,000	< 10000	< 10000	< 10000	NA	NA	NA	NA	**6,340**
Selenium	40	10	29.6	< 10	< 10	< 10	NA	NA	NA	NA	**46.9**
Silver	40	9.4	ND	< 10	< 10	< 10	NA	NA	NA	NA	ND
Sodium	50,000	NLE	21,500	**21,000**	**62,600**	**56,900**	NA	NA	NA	NA	**8,660**
Thallium	2	0.02	5.5	< 2	< 2	< 2	NA	NA	NA	NA	ND
Vanadium	NLE	8.6	108	< 50	< 50	< 50	NA	NA	NA	NA	**1.27**
Zinc	2,000	600	233	< 20	**34.7**	**42.9**	NA	NA	NA	NA	ND

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW22					M2MW22		
Sample ID				FTMM02-GW-M2MW22-38	FTMM02-GW-M2MW22-39	FTMM02-GW-M2MW22-40	FTMM02-GW-M2MW22-41	FTMM02-GW-M2MW22-42	FTMM02-GW-M2MW22-43	FTMM02-GW-M2MW22-44	FTMM02-GW-M2MW22-45
Sample Date				6/19/2009	9/23/2009	12/4/2009	3/10/2010	6/14/2010	9/24/2010	12/18/2010	3/9/2011
Sample Round				38	39	40	41	42	43	44	45
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	ND	**0.23 J**	ND	ND	ND
Chlorobenzene	50	7.8	-	**0.2 J**	ND	**0.28 J**	ND	**8.82**	**0.68**	**0.56**	**0.35 J**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	**0.95 J**	**3.07**	**3.26**	**3.95**	**5.44**	**12.1**	**13.08**	**7.43**
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	**264.54**	**544.33**	**252.98**	**277.36**	**455.06**	**332.94**	**304.32**	**164.35**
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	**82**	**141**	**54**	**196**	**229**	**458**	**171**	**168**
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW22					M2MW22		
Sample ID				FTMM02-GW-M2MW22-38	FTMM02-GW-M2MW22-39	FTMM02-GW-M2MW22-40	FTMM02-GW-M2MW22-41	FTMM02-GW-M2MW22-42	FTMM02-GW-M2MW22-43	FTMM02-GW-M2MW22-44	FTMM02-GW-M2MW22-45
Sample Date				6/19/2009	9/23/2009	12/4/2009	3/10/2010	6/14/2010	9/24/2010	12/18/2010	3/9/2011
Sample Round				38	39	40	41	42	43	44	45
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	NA	ND	ND	ND	< 200	< 200
Antimony	6	0.78	20.7	NA	NA	NA	ND	**11.3**	**10.8**	< 6	< 6
Arsenic	3	0.052	89.3	NA	NA	NA	ND	**0.94 ER**	ND	< 3	< 3
Barium	6,000	380	699	NA	NA	NA	**58.4**	**71.2**	**77**	< 200	< 200
Beryllium	1	2.5	2.1	NA	NA	NA	ND	ND	ND	< 1	< 1
Cadmium	4	0.92	9.5	NA	NA	NA	ND	**0.802 ER**	**1.32 ER**	< 3	< 3
Calcium	NLE	NLE	45,400	NA	NA	NA	**29,300**	**39,000**	**38,300**	**36,600**	**35,200**
Chromium	70	NLE	191	NA	NA	NA	ND	ND	ND	< 10	< 10
Cobalt	100	0.6	18.3	NA	NA	NA	ND	ND	ND	< 50	< 50
Copper	1,300	80	65.6	NA	NA	NA	ND	ND	**1.54 ER**	< 10	< 10
Iron	300	1,400	431,000	NA	NA	NA	**15,900**	**27,400**	**31,400**	**26,700**	**29,700**
Lead	5	15[2]	22.7	NA	NA	NA	ND	ND	**2.56 ER**	< 3	< 3
Magnesium	NLE	NLE	62,700	NA	NA	NA	**4,670**	**6,560**	**5,910**	**5,220**	**5,070**
Manganese	50	32	331	NA	NA	NA	**69.8**	**176**	**85.1**	**92.6**	**113**
Mercury	2	0.063	0.26	NA	NA	NA	ND	**0.06 ER**	ND	< 0.5	< 0.2
Nickel	100	39	187	NA	NA	NA	**0.634 ER**	**1.55 ER**	ND	< 10	< 10
Potassium	NLE	NLE	137,000	NA	NA	NA	**6,090**	**7,100**	**7,560**	< 10000	< 10000
Selenium	40	10	29.6	NA	NA	NA	**31.1**	NA	ND	< 10	< 10
Silver	40	9.4	ND	NA	NA	NA	ND	**5.78**	**3.65**	< 10	< 10
Sodium	50,000	NLE	21,500	NA	NA	NA	**6,900**	**9,360**	**8,970**	< 10000	< 10000
Thallium	2	0.02	5.5	NA	NA	NA	ND	ND	ND	< 2	< 2
Vanadium	NLE	8.6	108	NA	NA	NA	**2.07**	ND	ND	< 50	< 50
Zinc	2,000	600	233	NA	NA	NA	**2.45**	**2.3**	ND	< 20	< 20

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW22		M2MW23		M2MW23			
Sample ID				FTMM02-GW-M2MW22-46	FTMM02-GW-M2MW22-47	FTMM02-GW-M2MW23-33	FTMM02-GW-M2MW23-34	FTMM02-GW-M2MW23-35	FTMM02-GW-M2MW23-36	FTMM02-GW-M2MW23-37	FTMM02-GW-M2MW23-37-Dup
Sample Date				6/16/2011	8/23/2011	3/17/2008	5/22/2008	8/27/2008	12/23/2008	3/30/2009	3/30/2009
Sample Round				46	47	33	34	35	36	37	37
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	ND	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	ND	ND	ND	**0.85 J**	**0.38 J**	**0.34 J**	**0.35 J**
1,4-Dichlorobenzene	75	0.48	-	ND	ND	ND	ND	**2.68**	**1.24 J**	**1.09 J**	**1.07 J**
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	**0.21 J**	**0.61 J**	**0.71 J**	**0.5 J**	**0.53 J**
Chlorobenzene	50	7.8	-	**0.37 J**	**0.46 J**	**2.76**	**3.89**	**28.37**	**18.25**	**18.2**	**18.49**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	ND	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	**12.48**	**15.6**	ND	ND	**0.34 J**	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	**201.24**	NA	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	**204**	**75**	ND	ND	**35**	ND	ND	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	ND	ND
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	ND	**0.7 J**
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	ND	**0.7 J**
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	ND	ND
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	**24**	**35**
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	**0.034**	**0.035**
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	ND	**0.034**
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	**0.046**	**0.051**
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	ND	**0.029**
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	**0.028**	**0.029**
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	ND	**0.028**
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	ND	**0.034**
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	ND	ND
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	**0.029**	**0.028**
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	ND	**0.028**
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	ND	**0.028**
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	ND	**0.028**
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	ND	ND
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	**0.028**	**0.032**
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	**0.069**	**0.073**
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	ND	**0.028**
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	**0.036**	ND
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	ND	ND
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	**0.048**	**0.042**

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW22		M2MW23		M2MW23			
Sample ID				FTMM02-GW-M2MW22-46	FTMM02-GW-M2MW22-47	FTMM02-GW-M2MW23-33	FTMM02-GW-M2MW23-34	FTMM02-GW-M2MW23-35	FTMM02-GW-M2MW23-36	FTMM02-GW-M2MW23-37	FTMM02-GW-M2MW23-37-Dup
Sample Date				6/16/2011	8/23/2011	3/17/2008	5/22/2008	8/27/2008	12/23/2008	3/30/2009	3/30/2009
Sample Round				46	47	33	34	35	36	37	37
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	< 200	< 200	NA	NA	NA	NA	**15.8**	**43.4**
Antimony	6	0.78	20.7	< 6	< 6	NA	NA	NA	NA	**26.3**	**22.1**
Arsenic	3	0.052	89.3	< 3	< 3	NA	NA	NA	NA	**93.9**	**74**
Barium	6,000	380	699	< 200	< 200	NA	NA	NA	NA	**227**	**235**
Beryllium	1	2.5	2.1	< 1	< 1	NA	NA	NA	NA	ND	ND
Cadmium	4	0.92	9.5	< 3	< 3	NA	NA	NA	NA	ND	ND
Calcium	NLE	NLE	45,400	**32,400**	**53,300**	NA	NA	NA	NA	**67,400**	**66,800**
Chromium	70	NLE	191	< 10	< 10	NA	NA	NA	NA	**0.365 ER**	**0.598 ER**
Cobalt	100	0.6	18.3	< 50	< 50	NA	NA	NA	NA	ND	ND
Copper	1,300	80	65.6	< 10	**106**	NA	NA	NA	NA	ND	ND
Iron	300	1,400	431,000	**29,500**	**11,700**	NA	NA	NA	NA	**27,400**	**28,200**
Lead	5	15[2]	22.7	< 3	< 3	NA	NA	NA	NA	**10.7**	**6.39**
Magnesium	NLE	NLE	62,700	< 5000	**7,060**	NA	NA	NA	NA	**13,100**	**13,100**
Manganese	50	32	331	**84.4**	**323**	NA	NA	NA	NA	**157**	**161**
Mercury	2	0.063	0.26	< 0.2	**1.2**	NA	NA	NA	NA	ND	ND
Nickel	100	39	187	< 10	**22.4**	NA	NA	NA	NA	ND	ND
Potassium	NLE	NLE	137,000	< 10000	< 10000	NA	NA	NA	NA	**4,860**	**4,780**
Selenium	40	10	29.6	< 10	< 10	NA	NA	NA	NA	**84.2**	**96.7**
Silver	40	9.4	ND	< 10	< 10	NA	NA	NA	NA	ND	ND
Sodium	50,000	NLE	21,500	< 10000	**55,700**	NA	NA	NA	NA	**9,660**	**9,760**
Thallium	2	0.02	5.5	< 2	< 2	NA	NA	NA	NA	ND	ND
Vanadium	NLE	8.6	108	< 50	< 50	NA	NA	NA	NA	**6.06**	**6.17**
Zinc	2,000	600	233	< 20	**58.3**	NA	NA	NA	NA	**7.31**	**7.57**

Notes:

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(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
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NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
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D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
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[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

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Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
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Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW23			M2MW23				
Sample ID				FTMM02-GW-M2MW23-38	FTMM02-GW-M2MW23-39	FTMM02-GW-M2MW23-39-Dup	FTMM02-GW-M2MW23-40	FTMM02-GW-M2MW23-41	FTMM02-GW-M2MW23-42	FTMM02-GW-M2MW23-43	FTMM02-GW-M2MW23-44
Sample Date				6/19/2009	9/23/2009	9/23/2009	12/4/2009	3/10/2010	6/11/2010	9/24/2010	12/17/2010
Sample Round				38	39	39	40	41	42	43	44
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	600	NLE	-	ND	**0.78**	**0.88**	ND	ND	**0.75**	**0.54**	**0.29 J**
1,4-Dichlorobenzene	75	0.48	-	ND	**2.5**	**2.86**	ND	**0.57**	**2.45**	**1.73**	**0.83**
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	**0.44 J**	**0.48 J**	ND	**0.22 J**	**0.88**	ND	ND
Chlorobenzene	50	7.8	-	ND	**34.17**	**39.33**	**3.59**	**6.12**	**28.38**	**19.03**	**12.16**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	**8**	**12**	ND	ND	**3**	**4**	ND
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW23			M2MW23				
Sample ID				FTMM02-GW-M2MW23-38	FTMM02-GW-M2MW23-39	FTMM02-GW-M2MW23-39-Dup	FTMM02-GW-M2MW23-40	FTMM02-GW-M2MW23-41	FTMM02-GW-M2MW23-42	FTMM02-GW-M2MW23-43	FTMM02-GW-M2MW23-44
Sample Date				6/19/2009	9/23/2009	9/23/2009	12/4/2009	3/10/2010	6/11/2010	9/24/2010	12/17/2010
Sample Round				38	39	39	40	41	42	43	44
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	NA	NA	**24.5**	ND	**14.3**	< 200
Antimony	6	0.78	20.7	NA	NA	NA	NA	ND	**10.4**	**13.2**	< 6
Arsenic	3	0.052	89.3	NA	NA	NA	NA	ND	**1.78 ER**	**1.18 ER**	< 3
Barium	6,000	380	699	NA	NA	NA	NA	**41.9**	**251**	**252**	**219**
Beryllium	1	2.5	2.1	NA	NA	NA	NA	ND	ND	ND	< 1
Cadmium	4	0.92	9.5	NA	NA	NA	NA	ND	**1.7 ER**	**1.28 ER**	< 3
Calcium	NLE	NLE	45,400	NA	NA	NA	NA	**34,400**	**56,600**	**44,500**	**60,400**
Chromium	70	NLE	191	NA	NA	NA	NA	ND	ND	ND	< 10
Cobalt	100	0.6	18.3	NA	NA	NA	NA	ND	ND	ND	< 50
Copper	1,300	80	65.6	NA	NA	NA	NA	ND	ND	**1.78**	< 10
Iron	300	1,400	431,000	NA	NA	NA	NA	**6,230**	**58,200**	**37,200**	**19,500**
Lead	5	15[2]	22.7	NA	NA	NA	NA	ND	ND	**3.75 ER**	< 3
Magnesium	NLE	NLE	62,700	NA	NA	NA	NA	**7,090**	**10,600**	**8,320**	**12,400**
Manganese	50	32	331	NA	NA	NA	NA	**35.7**	**231**	**185**	**121**
Mercury	2	0.063	0.26	NA	NA	NA	NA	**0.09 ER**	**0.06 ER**	ND	< 0.5
Nickel	100	39	187	NA	NA	NA	NA	**0.975 ER**	**1.46 ER**	**0.622 ER**	< 10
Potassium	NLE	NLE	137,000	NA	NA	NA	NA	**3,380**	**3,640**	**3,700**	< 10000
Selenium	40	10	29.6	NA	NA	NA	NA	**31.2**	NA	ND	< 10
Silver	40	9.4	ND	NA	NA	NA	NA	ND	**10.5**	**4.25**	< 10
Sodium	50,000	NLE	21,500	NA	NA	NA	NA	**3,770**	**10,800**	**10,200**	< 10000
Thallium	2	0.02	5.5	NA	NA	NA	NA	**2.34 ER**	ND	ND	< 2
Vanadium	NLE	8.6	108	NA	NA	NA	NA	**1.49**	ND	ND	< 50
Zinc	2,000	600	233	NA	NA	NA	NA	**10.6**	ND	ND	< 20

Notes:

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MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW23		M2MW23	M2MW24				
Sample ID				FTMM02-GW-M2MW23-45	FTMM02-GW-M2MW23-46	FTMM02-GW-M2MW23-47	FTMM02-GW-M2MW24-33	FTMM02-GW-M2MW24-34	FTMM02-GW-M2MW24-35	FTMM02-GW-M2MW24-36	FTMM02-GW-M2MW24-37
Sample Date				3/9/2011	6/15/2011	8/23/2011	3/17/2008	5/22/2008	8/27/2008	12/23/2008	3/30/2009
Sample Round				45	46	47	33	34	35	36	37
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	ND	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	ND	ND	ND	**0.54 J**	**0.54 J**	**0.52 J**	**0.45 J**	**0.5 J**
1,3-Dichlorobenzene	600	NLE	-	ND	**0.3 J**	ND	**0.58 J**	**0.6 J**	**0.59 J**	**0.62 J**	**0.59 J**
1,4-Dichlorobenzene	75	0.48	-	ND	**0.97**	ND	**3.82**	**3.82**	**3.63**	**3.74**	**3.62**
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	ND	ND	ND	**2.24**	**1.82 J**	**1.59 J**	**2.65**	**1.68 J**
Chlorobenzene	50	7.8	-	**0.45 J**	**10.72**	**0.4 J**	**7.46**	**7.36**	**4.7**	**7.38**	**7.35**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	ND	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	NA	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	ND	ND	ND	**187**	**169**	**264**	**171**	**136**
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	ND
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	ND
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	**0.9 J**
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	**29**
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	**0.036**
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	**0.033**
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	ND
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	**0.031**
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	**0.027**
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	ND
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	ND
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	ND
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	ND
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	**0.075**
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	ND
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	ND
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	ND
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	**0.059**

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW23		M2MW23	M2MW24				
Sample ID				FTMM02-GW-M2MW23-45	FTMM02-GW-M2MW23-46	FTMM02-GW-M2MW23-47	FTMM02-GW-M2MW24-33	FTMM02-GW-M2MW24-34	FTMM02-GW-M2MW24-35	FTMM02-GW-M2MW24-36	FTMM02-GW-M2MW24-37
Sample Date				3/9/2011	6/15/2011	8/23/2011	3/17/2008	5/22/2008	8/27/2008	12/23/2008	3/30/2009
Sample Round				45	46	47	33	34	35	36	37
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	**249**	**515**	**2,790**	NA	NA	NA	NA	**18.8**
Antimony	6	0.78	20.7	< 6	< 6	< 6	NA	NA	NA	NA	**26.8**
Arsenic	3	0.052	89.3	< 3	< 3	**5.3**	NA	NA	NA	NA	**71.9**
Barium	6,000	380	699	< 200	**243**	< 200	NA	NA	NA	NA	**279**
Beryllium	1	2.5	2.1	< 1	< 1	< 1	NA	NA	NA	NA	ND
Cadmium	4	0.92	9.5	< 3	< 3	< 3	NA	NA	NA	NA	ND
Calcium	NLE	NLE	45,400	**31,900**	**49,800**	**43,300**	NA	NA	NA	NA	**60,500**
Chromium	70	NLE	191	< 10	< 10	**31**	NA	NA	NA	NA	**0.346 ER**
Cobalt	100	0.6	18.3	< 50	< 50	< 50	NA	NA	NA	NA	ND
Copper	1,300	80	65.6	< 10	**12.5**	**18.8**	NA	NA	NA	NA	ND
Iron	300	1,400	431,000	**2,760**	**37,500**	**11,500**	NA	NA	NA	NA	**64,300**
Lead	5	15[2]	22.7	< 3	< 3	**10.8**	NA	NA	NA	NA	**11.9**
Magnesium	NLE	NLE	62,700	**5,940**	**8,800**	**7,680**	NA	NA	NA	NA	**5,050**
Manganese	50	32	331	< 15	**188**	**41.2**	NA	NA	NA	NA	**647**
Mercury	2	0.063	0.26	< 0.2	< 0.2	< 0.2	NA	NA	NA	NA	ND
Nickel	100	39	187	< 10	< 10	< 10	NA	NA	NA	NA	ND
Potassium	NLE	NLE	137,000	< 10000	< 10000	< 10000	NA	NA	NA	NA	**2,830**
Selenium	40	10	29.6	< 10	< 10	< 10	NA	NA	NA	NA	**76**
Silver	40	9.4	ND	< 10	< 10	< 10	NA	NA	NA	NA	ND
Sodium	50,000	NLE	21,500	< 10000	**38,900**	**92,300**	NA	NA	NA	NA	**14,500**
Thallium	2	0.02	5.5	< 2	< 2	< 2	NA	NA	NA	NA	ND
Vanadium	NLE	8.6	108	< 50	< 50	< 50	NA	NA	NA	NA	**4.63**
Zinc	2,000	600	233	< 20	< 20	**40.2**	NA	NA	NA	NA	**13.7**

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.
[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW24	M2MW24						
Sample ID				FTMM02-GW-M2MW24-38	FTMM02-GW-M2MW24-39	FTMM02-GW-M2MW24-40	FTMM02-GW-M2MW24-41	FTMM02-GW-M2MW24-42	FTMM02-GW-M2MW24-43	FTMM02-GW-M2MW24-44	FTMM02-GW-M2MW24-44-Dup
Sample Date				6/19/2009	9/23/2009	12/4/2009	3/10/2010	6/14/2010	9/24/2010	12/18/2010	12/18/2010
Sample Round				38	39	40	41	42	43	44	44
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	**0.58**	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	600	30	-	**0.5 J**	**0.47 J**	**0.45 J**	**0.45 J**	**0.54**	**0.51**	**0.42 J**	**0.46 J**
1,3-Dichlorobenzene	600	NLE	-	**0.53 J**	**0.5**	**0.56**	**0.65**	**0.62**	**0.68**	**0.7**	**0.69**
1,4-Dichlorobenzene	75	0.48	-	**3.5**	**3.46**	**3.49**	**3.75**	**3.63**	**4.03**	**3.91**	**3.77**
Acetone	6,000	1,400	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1	0.45	-	**1.36 J**	**1.27**	**1.92**	**1.9**	**1.82**	**1.62**	**1.49**	**1.52**
Chlorobenzene	50	7.8	-	**5.53**	**4.3**	**6.03**	**7.82**	**6.48**	**8.07**	**8.73**	**8.86**
Chloroethane	5	2,100	-	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	**0.25 J**	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)											
Total TIC, Volatile	500	NLE	-	**179**	**127**	**141**	**131**	**182**	**179**	**256**	**270**
Semivolatile Organic Compounds (µg/l)											
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (µg/l)											
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pesticides & PCBs (µg/l)											
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard[1]	2014-05 USEPA RSL Tap Water (HQ=0.1)[2]	Weston 1995 Background (Main Post)[3]	M2MW24	M2MW24							
Sample ID				FTMM02-GW-M2MW24-38	FTMM02-GW-M2MW24-39	FTMM02-GW-M2MW24-40	FTMM02-GW-M2MW24-41	FTMM02-GW-M2MW24-42	FTMM02-GW-M2MW24-43	FTMM02-GW-M2MW24-44	FTMM02-GW-M2MW24-44-Dup
Sample Date				6/19/2009	9/23/2009	12/4/2009	3/10/2010	6/14/2010	9/24/2010	12/18/2010	12/18/2010
Sample Round				38	39	40	41	42	43	44	44
Filtered				Total	Total	Total	Total	Total	Total	Total	Total
Inorganics (µg/l)											
Aluminum	200	2,000	121,000	NA	NA	NA	**36.7**	ND	ND	< 200	< 200
Antimony	6	0.78	20.7	NA	NA	NA	ND	**11.5**	**16.7**	< 6	< 6
Arsenic	3	0.052	89.3	NA	NA	NA	ND	**0.83 ER**	**0.92 ER**	< 3	< 3
Barium	6,000	380	699	NA	NA	NA	**198**	**202**	**297**	**351**	**365**
Beryllium	1	2.5	2.1	NA	NA	NA	ND	ND	ND	< 1	< 1
Cadmium	4	0.92	9.5	NA	NA	NA	ND	**1.11 ER**	**2.44 ER**	< 3	< 3
Calcium	NLE	NLE	45,400	NA	NA	NA	**39,900**	**44,300**	**62,400**	**62,400**	**64,600**
Chromium	70	NLE	191	NA	NA	NA	ND	ND	ND	< 10	< 10
Cobalt	100	0.6	18.3	NA	NA	NA	ND	ND	ND	< 50	< 50
Copper	1,300	80	65.6	NA	NA	NA	ND	ND	**2.44 ER**	< 10	< 10
Iron	300	1,400	431,000	NA	NA	NA	**44,200**	**47,800**	**66,300**	**70,500**	**72,900**
Lead	5	15[2]	22.7	NA	NA	NA	ND	**2.85 ER**	**6.24**	< 3	< 3
Magnesium	NLE	NLE	62,700	NA	NA	NA	**3,380**	**3,720**	**4,860**	< 5000	< 5000
Manganese	50	32	331	NA	NA	NA	**427**	**480**	**642**	**686**	**713**
Mercury	2	0.063	0.26	NA	NA	NA	**0.11 ER**	ND	ND	< 0.5	< 0.5
Nickel	100	39	187	NA	NA	NA	**1.15 ER**	**0.471 ER**	**0.629 ER**	< 10	< 10
Potassium	NLE	NLE	137,000	NA	NA	NA	**2,680**	**2,450**	**3,120**	< 10000	< 10000
Selenium	40	10	29.6	NA	NA	NA	**15.3**	NA	ND	< 10	< 10
Silver	40	9.4	ND	NA	NA	NA	ND	**8.83**	**7.63**	< 10	< 10
Sodium	50,000	NLE	21,500	NA	NA	NA	**9,480**	**11,000**	**14,200**	**14,800**	**15,300**
Thallium	2	0.02	5.5	NA	NA	NA	**1.17 ER**	ND	ND	< 2	< 2
Vanadium	NLE	8.6	108	NA	NA	NA	**4.71**	ND	ND	< 50	< 50
Zinc	2,000	600	233	NA	NA	NA	**7.64**	**2.41**	ND	< 20	< 20

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**NJ Ground Water Quality Standard[1]**	**2014-05 USEPA RSL Tap Water (HQ=0.1)[2]**	**Weston 1995 Background (Main Post)[3]**	M2MW24			
Sample ID				FTMM02-GW-M2MW24-45	FTMM02-GW-M2MW24-46	FTMM02-GW-M2MW24-46-Dup	FTMM02-GW-M2MW24-47
Sample Date				3/9/2011	6/16/2011	6/16/2011	8/22/2011
Sample Round				45	46	46	47
Filtered				Total	Total	Total	Total
Volatile Organic Compounds (µg/l)							
1,1,2-Trichloroethane	3	0.041	-	ND	ND	ND	ND
1,1-Dichloroethane	50	2.7	-	ND	ND	ND	ND
1,2,4-Trichlorobenzene	9	0.4	-	NA	NA	NA	ND
1,2-Dichlorobenzene	600	30	-	**0.49 J**	**0.47 J**	**0.45 J**	**0.43 J**
1,3-Dichlorobenzene	600	NLE	-	**0.55**	**0.47 J**	**0.46 J**	**0.53 J**
1,4-Dichlorobenzene	75	0.48	-	**3.46**	**3.65**	**3.6**	**4.1**
Acetone	6,000	1,400	-	NA	NA	NA	NA
Benzene	1	0.45	-	**1.49**	**0.86**	**0.87**	**1.3**
Chlorobenzene	50	7.8	-	**6.58**	**4.14**	**4.21**	**4.5**
Chloroethane	5	2,100	-	ND	ND	ND	ND
Ethyl benzene	700	1.5	-	ND	ND	ND	ND
Isopropylbenzene	700	45	-	NA	NA	NA	**4.5**
Methyl ethyl ketone	300	560	-	NA	NA	NA	NA
Methyl Tertbutyl Ether	70	14	-	ND	ND	ND	ND
Methylene chloride	3	11	-	ND	ND	ND	ND
Naphthalene	300	0.17	-	NA	NA	NA	NA
n-Butylbenzene	NLE	100	-	NA	NA	NA	NA
Propylbenzene	NLE	66	-	NA	NA	NA	NA
sec-Butylbenzene	NLE	200	-	NA	NA	NA	NA
Styrene	100	120	-	ND	ND	ND	ND
Tert Butyl Alcohol	100	NLE	-	ND	ND	ND	NA
tert-Butylbenzene	NLE	69	-	NA	NA	NA	NA
Toluene	600	110	-	ND	ND	ND	ND
TIC VOCs (µg/l)							
Total TIC, Volatile	500	NLE	-	**150**	**114**	**113**	**55.5**
Semivolatile Organic Compounds (µg/l)							
1,3-Dichlorobenzene	600	NLE	-	NA	NA	NA	NA
1,4-Dichlorobenzene	75	0.48	-	NA	NA	NA	NA
Acenaphthene	400	53	-	NA	NA	NA	NA
Benzyl alcohol	2,000	200	-	NA	NA	NA	NA
TIC SVOCs (µg/l)							
Total TIC, Semi-Volatile	500	NLE	-	NA	NA	NA	NA
Pesticides & PCBs (µg/l)							
4,4'-DDD	0.1	0.031	-	NA	NA	NA	NA
4,4'-DDE	0.1	0.23	-	NA	NA	NA	NA
4,4'-DDT	0.1	0.23	-	NA	NA	NA	NA
Aldrin	0.04	0.0046	-	NA	NA	NA	NA
Alpha-BHC	0.02	0.0071	-	NA	NA	NA	NA
Alpha-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA
Beta-BHC	0.04	0.025	-	NA	NA	NA	NA
Decachlorobiphenyl	NLE	NLE	-	NA	NA	NA	NA
Delta-BHC	100	NLE	-	NA	NA	NA	NA
Dieldrin	0.03	0.0017	-	NA	NA	NA	NA
Endosulfan I	40	NLE	-	NA	NA	NA	NA
Endosulfan II	40	NLE	-	NA	NA	NA	NA
Endosulfan sulfate	40	NLE	-	NA	NA	NA	NA
Endrin	2	0.23	-	NA	NA	NA	NA
Endrin aldehyde	100	0.23	-	NA	NA	NA	NA
Endrin ketone	100	NLE	-	NA	NA	NA	NA
Gamma-Chlordane	0.5	0.22 [1]	-	NA	NA	NA	NA
Heptachlor	0.05	0.002	-	NA	NA	NA	NA
Heptachlor epoxide	0.2	0.0038	-	NA	NA	NA	NA
Methoxychlor	40	3.7	-	NA	NA	NA	NA

TABLE 4.4
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
MARCH 2008 TO AUGUST 2011
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	**NJ Ground Water Quality Standard[1]**	**2014-05 USEPA RSL Tap Water (HQ=0.1)[2]**	**Weston 1995 Background (Main Post)[3]**	M2MW24			
Sample ID				FTMM02-GW-M2MW24-45	FTMM02-GW-M2MW24-46	FTMM02-GW-M2MW24-46-Dup	FTMM02-GW-M2MW24-47
Sample Date				3/9/2011	6/16/2011	6/16/2011	8/22/2011
Sample Round				45	46	46	47
Filtered				Total	Total	Total	Total
Inorganics (µg/l)							
Aluminum	200	2,000	121,000	< 200	< 200	< 200	< 200
Antimony	6	0.78	20.7	< 6	< 6	< 6	< 6
Arsenic	3	0.052	89.3	< 3	< 3	< 3	< 3
Barium	6,000	380	699	**386**	**243**	**223**	**312**
Beryllium	1	2.5	2.1	< 1	< 1	< 1	< 1
Cadmium	4	0.92	9.5	< 3	< 3	< 3	< 3
Calcium	NLE	NLE	45,400	**75,400**	**54,400**	**50,300**	**60,200**
Chromium	70	NLE	191	< 10	< 10	< 10	< 10
Cobalt	100	0.6	18.3	< 50	< 50	< 50	< 50
Copper	1,300	80	65.6	< 10	< 10	< 10	< 10
Iron	300	1,400	431,000	**79,200**	**56,100**	**51,900**	**69,200**
Lead	5	15[2]	22.7	< 3	< 3	< 3	< 3
Magnesium	NLE	NLE	62,700	**6,210**	< 5000	< 5000	< 5000
Manganese	50	32	331	**901**	**700**	**645**	**788**
Mercury	2	0.063	0.26	< 0.2	< 0.2	< 0.2	< 0.2
Nickel	100	39	187	< 10	< 10	< 10	< 10
Potassium	NLE	NLE	137,000	< 10000	< 10000	< 10000	< 10000
Selenium	40	10	29.6	< 10	< 10	< 10	< 10
Silver	40	9.4	ND	< 10	< 10	< 10	< 10
Sodium	50,000	NLE	21,500	**15,400**	**15,200**	**14,200**	**21,100**
Thallium	2	0.02	5.5	< 2	< 2	< 2	< 2
Vanadium	NLE	8.6	108	< 50	< 50	< 50	< 50
Zinc	2,000	600	233	**21**	< 20	< 20	< 20

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14. RSL values were current at the time the screening was conducted.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
RSL values were current at the time the screening was conducted.

NA = Not analyzed.
ND = Not detected.
NLE = No limit established.
J = estimated (detect or non-detect) value.
D = Results from dilution of sample.
ER = Estimated Result.
< = analyte not detected above method detection limit (MDL).
µg/L = micrograms per liter.

[1] No USEPA RSLs are available for isomers of chlordane. The chlordane (technical) RSL is used for gamma-chlordane and alpha-chlordane.

[2] No lead limit established. USEPA MCL was used instead of USEPA Tapwater RSL.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS
Shaded cells = concentration exceeds USEPA Tapwater RSLs
Shaded cells = concentration exceeds NJDEP GWQS and USEPA Tapwater RSLs.
Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.5
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
AUGUST 2013 AND DECEMBER 2014
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard	2014-05 USEPA RSL Tap Water (HQ=0.1)	M2MW02	M2MW03		M2MW04	M2MW05	M2MW06	M2MW07	M2MW08	M2MW09	M2MW10	
Sample ID			FTMM-2-GW-M2MW02	FTMM-2-GW-M2MW03	FTMM-2-GW-M2MW03-10.27_2014_Q4	FTMM-2-GW-M2MW04	FTMM-2-GW-M2MW05	FTMM-2-GW-M2MW06	FTMM-2-GW-M2MW07	FTMM-2-GW-M2MW08	FTMM-2-GW-M2MW09	FTMM-2-GW-M2MW10_20130822	FTMM-2-GW-M2MW10_20130827
Sample Date			8/22/2013	8/21/2013	12/18/2014	8/22/2013	8/22/2013	8/21/2013	8/21/2013	8/21/2013	8/21/2013	8/22/2013	8/27/2013
Filtered			Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)													
1,1,2-Trichloroethane	3	0.041	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
1,1-Dichloroethane	50	2.7	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
1,2,4-Trichlorobenzene	9	0.4	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
1,2-Dichlorobenzene	600	30	**0.64 J**	< 10	**1.3 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
1,3-Dichlorobenzene	600	NLE	**1.4 J**	< 10	**1 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
1,4-Dichlorobenzene	75	0.48	**4.1 J**	**5.8 J**	**3.9 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Acetone	6,000	1,400	**3.1 J**	< 50	< 5	< 5	< 5	**1.7 J**	< 5	< 5	**1.7 J**	**1.3 J**	NA
Benzene	1	0.45	< 1	**3.7 J**	**2.2 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Chlorobenzene	50	7.8	**38**	**79**	**49**	**0.85 J**	< 1	**0.97 J**	< 1	< 1	< 1	< 1	NA
Chloroethane	5	2,100	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Ethyl benzene	700	1.5	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Isopropylbenzene	700	45	**0.23 J**	< 10	**0.73 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Methyl ethyl ketone	300	560	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Methyl Tertbutyl Ether	70	14	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Methylene chloride	3	11	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Naphthalene	300	0.17	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
n-Butylbenzene	100	100	**0.48 J**	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Propylbenzene	100	66	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
sec-Butylbenzene	100	200	**0.72 J**	< 10	**0.35 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Styrene	100	120	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Tert Butyl Alcohol	100	NLE	NA	NA	< 20	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	100	69	**0.44 J**	< 10	**0.43 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
Toluene	600	110	< 1	< 10	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	NA
TIC VOCs (mg/l)													
Total TIC, Volatile	0.5	NLE	**6.2**	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
Pesticides (µg/l)													
Decachlorobiphenyl	NLE	NLE	**40.4**	**44.36**	NA	**28.07 ***	**44.53**	**52.82**	**62.23**	**32.62**	**43.24**	NA	**54.84**
Tetrachloro-m-xylene	NLE	NLE	**80.88**	**82.68**	NA	**86.56**	**89.31**	**93.66**	**93.98**	**86.49**	**90.85**	NA	**92.49**

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised November 2013.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm

RSL values were current at the time the screening was conducted.

NA = Not analyzed.

ND = Not detected.

NLE = No limit established.

J = estimated (detect or non-detect) value.

ER = Estimated Result.

< = analyte not detected above method detection limit (MDL).

µg/L = micrograms per liter.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS

Shaded cells = concentration exceeds USEPA Tapwater RSLs

RSLs.

Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.5
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
AUGUST 2013 AND DECEMBER 2014
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard	2014-05 USEPA RSL Tap Water (HQ=0.1)	M2MW10			M2MW11	M2MW11		
Sample ID			FTMM-2-GW-M2MW10-12.32_2014_Q4	FTMM-2-GW-M2MW10-17.31_2014_Q4	FTMM-2-GW-M2MW10-7.32_2014_Q4	FTMM-2-GW-M2MW11	FTMM-2-GW-M2MW11-31.91_2014_Q4	FTMM-2-GW-M2MW11-36.91_2014_Q4	FTMM-2-GW-M2MW11-41.91_2014_Q4
Sample Date			12/18/2014	12/18/2014	12/18/2014	8/21/2013	12/18/2014	12/18/2014	12/18/2014
Filtered			Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)									
1,1,2-Trichloroethane	3	0.041	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	2.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	0.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	30	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	0.48	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	1,400	**1.7 J**	**2.2 J**	**2.5 J**	< 5	**1.7 J**	< 5	< 5
Benzene	1	0.45	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	7.8	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	2,100	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	1.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	45	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	560	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	14	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	11	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	0.17	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	66	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	120	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	< 20	< 20	< 20	NA	< 20	< 20	< 20
tert-Butylbenzene	100	69	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	110	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (mg/l)									
Total TIC, Volatile	0.5	NLE	NA	NA	NA	ND	NA	NA	NA
Pesticides (µg/l)									
Decachlorobiphenyl	NLE	NLE	NA	NA	NA	**57.03**	NA	NA	NA
Tetrachloro-m-xylene	NLE	NLE	NA	NA	NA	**89.25**	NA	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised November 2013.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm

RSL values were current at the time the screening was conducted.

NA = Not analyzed.

ND = Not detected.

NLE = No limit established.

J = estimated (detect or non-detect) value.

ER = Estimated Result.

< = analyte not detected above method detection limit (MDL).

µg/L = micrograms per liter.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS

Shaded cells = concentration exceeds USEPA Tapwater RSLs

RSLs.

Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.5
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
AUGUST 2013 AND DECEMBER 2014
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard	2014-05 USEPA RSL Tap Water (HQ=0.1)	M2MW11	M2MW12	M2MW13	M2MW21			M2MW22		
Sample ID			FTMM-2-GW-M2MW11-46.91_2014_Q4	FTMM-2-GW-M2MW12	FTMM-2-GW-M2MW13	FTMM-2-GW-M2MW21	FTMM-2-GW-M2MW21-15.97_2014_Q4	FTMM-2-GW-M2MW21-8.8_2014_Q4	FTMM-2-GW-M2MW22	FTMM-2-GW-M2MW22-10.03_2014_Q4	FTMM-2-GW-M2MW22-10.67_2014_Q4
Sample Date			12/18/2014	8/21/2013	8/22/2013	8/22/2013	12/18/2014	12/18/2014	8/23/2013	12/18/2014	12/18/2014
Filtered			Total	Total	Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	3	0.041	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	2.7	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	0.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	30	< 1	< 1	< 1	**1.1 J**	**0.59 J**	**0.58 J**	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	< 1	< 1	< 1	**2.2 J**	**0.95 J**	**0.97 J**	< 1	< 1	< 1
1,4-Dichlorobenzene	75	0.48	< 1	< 1	**0.92 J**	**4.6 J**	**2.1 J**	**2 J**	< 1	< 1	< 1
Acetone	6,000	1,400	**1.6 J**	**1.3 J**	**1.7 J**	**2.8 J**	< 5	< 5	**2.9 J**	**1.3 J**	< 5
Benzene	1	0.45	< 1	< 1	< 1	**0.32 J**	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	7.8	< 1	< 1	**0.63 J**	**25**	**22**	**16**	**3.4 J**	**1.5 J**	**2.8 J**
Chloroethane	5	2,100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	1.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	45	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	560	< 1	< 1	< 1	< 1	< 1	< 1	**1 J**	< 1	< 1
Methyl Tertbutyl Ether	70	14	< 1	< 1	< 1	< 1	< 1	< 1	**26**	**23**	**17**
Methylene chloride	3	11	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	0.17	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	100	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	66	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	200	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	120	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	< 20	NA	NA	NA	< 20	< 20	NA	< 20	< 20
tert-Butylbenzene	100	69	< 1	< 1	< 1	**0.24 J**	< 1	< 1	< 1	< 1	< 1
Toluene	600	110	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (mg/l)											
Total TIC, Volatile	0.5	NLE	NA	ND	ND	ND	NA	NA	**48.3**	NA	NA
Pesticides (µg/l)											
Decachlorobiphenyl	NLE	NLE	NA	**58.2**	**37.28**	**42.07**	NA	NA	**31.31**	NA	NA
Tetrachloro-m-xylene	NLE	NLE	NA	**91.49**	**84.6**	**83.07**	NA	NA	**92.19**	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised November 2013.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm

RSL values were current at the time the screening was conducted.

NA = Not analyzed.

ND = Not detected.

NLE = No limit established.

J = estimated (detect or non-detect) value.

ER = Estimated Result.

< = analyte not detected above method detection limit (MDL).

µg/L = micrograms per liter.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS

Shaded cells = concentration exceeds USEPA Tapwater RSLs

RSLs.

Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.5
GROUNDWATER SAMPLING SUMMARY RESULTS FOR
AUGUST 2013 AND DECEMBER 2014
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Standard	2014-05 USEPA RSL Tap Water (HQ=0.1)	M2MW23	M2MW24		M2MW24
Sample ID			FTMM-2-GW-M2MW23	FTMM-2-GW-M2MW24	FTMM-2-GW-M2MW24-16.5_2014_Q4	FTMM-2-GW-M2MW24-9.97_2014_Q4
Sample Date			8/22/2013	8/23/2013	12/18/2014	12/18/2014
Filtered			Total	Total	Total	Total
Volatile Organic Compounds (µg/l)						
1,1,2-Trichloroethane	3	0.041	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	2.7	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	0.4	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	30	< 1	**0.56 J**	**0.41 J**	**0.38 J**
1,3-Dichlorobenzene	600	NLE	< 1	**0.55 J**	**0.46 J**	**0.54 J**
1,4-Dichlorobenzene	75	0.48	**0.59 J**	**3.3 J**	**2.6 J**	**2.8 J**
Acetone	6,000	1,400	**3.5 J**	**2 J**	< 5	< 5
Benzene	1	0.45	< 1	**0.7 J**	**0.46 J**	**0.49 J**
Chlorobenzene	50	7.8	**4.9 J**	**4.4 J**	**5.1**	**5 J**
Chloroethane	5	2,100	< 1	< 1	< 1	< 1
Ethyl benzene	700	1.5	< 1	< 1	< 1	< 1
Isopropylbenzene	700	45	< 1	**4.2 J**	**3.5 J**	**3.7 J**
Methyl ethyl ketone	300	560	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	14	< 1	< 1	< 1	< 1
Methylene chloride	3	11	< 1	< 1	< 1	< 1
Naphthalene	300	0.17	< 1	**0.24 J**	< 1	< 1
n-Butylbenzene	100	100	< 1	**1.8 J**	**0.34 J**	**0.39 J**
Propylbenzene	100	66	< 1	**3.1 J**	**1.7 J**	**1.4 J**
sec-Butylbenzene	100	200	< 1	**3.6 J**	**1.5 J**	**1.9 J**
Styrene	100	120	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	NA	NA	< 20	< 20
tert-Butylbenzene	100	69	< 1	**0.9 J**	**0.6 J**	**0.75 J**
Toluene	600	110	< 1	< 1	< 1	< 1
TIC VOCs (mg/l)						
Total TIC, Volatile	0.5	NLE	ND	**55.2**	NA	NA
Pesticides (µg/l)						
Decachlorobiphenyl	NLE	NLE	**43.52**	**29.38 ***	NA	NA
Tetrachloro-m-xylene	NLE	NLE	**79.37**	**89.02**	NA	NA

Notes:

(1) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)

(2) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised November 2013.

(3) Background data from Weston. 1995. Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.

(4) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm

RSL values were current at the time the screening was conducted.

NA = Not analyzed.

ND = Not detected.

NLE = No limit established.

J = estimated (detect or non-detect) value.

ER = Estimated Result.

< = analyte not detected above method detection limit (MDL).

µg/L = micrograms per liter.

Detections are bolded

Shaded cells = concentration exceeds NJDEP GWQS

Shaded cells = concentration exceeds USEPA Tapwater RSLs

RSLs.

Shaded cells = concentration exceeds Weston (1995) background

TABLE 4.6
GROUNDWATER SAMPLING SUMMARY OF EXCEEDANCES
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Analyte	Maximum Detected Concentration		Location of Maximum Concentration	Date of Maximum Concentration	Number of Samples	Number of Detections	Number of Exceedances			Identification of COPCs	
							NJ Ground Water Quality Standard	2014-05 USEPA RSL Tap Water (HQ=0.1)	Weston 1995 Background (Main Post)	Evaluated as COPC in Risk Assessment	Rationale
Volatile Organic Compounds (µg/l)											
1,1,2-Trichloroethane	0.58		M2MW24	3/10/2010	188	2	0	2	n/a	No	Anomalous occurrence; exceeded Tapwater RSL in only 2 samples and well, followed by multiple sample events where not detected
1,1-Dichloroethane	1.2		M2MW03	8/22/2011	188	1	0	0	n/a	No	Less than RSLs
1,2,4-Trichlorobenzene	0.3	J	M2MW21	8/22/2011	49	1	0	0	n/a	No	Less than RSLs
1,2-Dichlorobenzene	2.77		M2MW03	3/8/2011	188	38	0	0	n/a	No	Less than RSLs
1,3-Dichlorobenzene	3.25		M2MW21	9/24/2010	188	46	0	NLE	n/a	No	No RSLs
1,4-Dichlorobenzene	7.56		M2MW03	3/8/2011	188	56	0	55	n/a	**Yes**	Exceeds USEPA Tapwater RSL in 55 samples at MW02, MW03, MW06, MW13, MW21, MW23, and MW24
Acetone	3.5	J	M2MW23	8/22/2013	30	16	0	0	n/a	No	Less than RSLs
Benzene	42.9		M2MW11	8/24/2011	188	37	19	30	n/a	**Yes**	Exceeds USEPA Tapwater RSL in 30 samples at MW03, MW11, MW21, MW23, and MW24
Chlorobenzene	133.27		M2MW03	3/9/2010	188	82	5	42	n/a	**Yes**	Exceeds USEPA Tapwater RSL in 42 samples at MW02, MW03, MW06, MW13, MW21, MW22, MW23, and MW24
Chloroethane	1.5		M2MW03	8/22/2011	188	1	0	0	n/a	No	Less than RSLs
Ethyl benzene	2.13		M2MW03	6/14/2011	188	2	0	2	n/a	No	Anomalous occurrence; exceeded Tapwater RSL in only 2 samples and well, followed by multiple sample events where not detected
Isopropylbenzene	4.5		M2MW24	8/22/2011	49	7	0	0	n/a	No	Less than RSLs
Methyl ethyl ketone	1	J	M2MW22	8/23/2013	30	1	0	0	n/a	No	Less than RSLs
Methyl Tertbutyl Ether	26		M2MW22	8/23/2013	188	13	0	4	n/a	**Yes**	Exceeds USEPA Tapwater RSL in 4 samples at M2MW22 in most recent sample events; possibly related to upgradient source
Methylene chloride	0.75	J	M2MW05	8/23/2011	188	1	0	0	n/a	No	Less than RSLs
Naphthalene	0.24	J	M2MW24	8/23/2013	30	1	0	1	n/a	**Yes**	Exceeds USEPA Tapwater RSL in 1 sample at M2MW24 in most recent sample event
n-Butylbenzene	1.8	J	M2MW24	8/23/2013	30	4	0	0	n/a	No	Less than RSLs
Propylbenzene	3.1	J	M2MW24	8/23/2013	30	3	0	0	n/a	No	Less than RSLs
sec-Butylbenzene	3.6	J	M2MW24	8/23/2013	30	5	0	0	n/a	No	Less than RSLs
Styrene	6.25		M2MW03	6/14/2011	188	1	0	0	n/a	No	Less than RSLs
Tert Butyl Alcohol	455.06		M2MW22	6/14/2010	153	8	7	NLE	n/a	No	No RSLs
tert-Butylbenzene	0.9	J	M2MW24	8/23/2013	30	6	0	0	n/a	No	Less than RSLs
Toluene	0.4	J	M2MW03	8/22/2011	188	2	0	0	n/a	No	Less than RSLs
TIC VOCs (mg/l)											
Total TIC, Volatile	458		M2MW22	9/24/2010	175	38	3	NLE	n/a	No	No RSLs
Semivolatile Organic Compounds (µg/l)	**No Detections**										
Pesticides (µg/l)											
Decachlorobiphenyl	62.23		M2MW07	8/21/2013	16	16	NLE	NLE	n/a	No	No RSLs
Tetrachloro-m-xylene	93.98		M2MW07	8/21/2013	16	16	NLE	NLE	n/a	No	No RSLs
Inorganics (µg/l)											
Aluminum	13,700		M2MW05	8/23/2011	141	51	27	5	0	No	Less than maximum background
Antimony	22.6		M2MW21	9/24/2010	141	43	41	43	1	No	Higher concentrations at several wells occurs early in data set, followed by multiple rounds of nondetects or less than maximum background

TABLE 4.6
GROUNDWATER SAMPLING SUMMARY OF EXCEEDANCES
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Analyte	Maximum Detected Concentration		Location of Maximum Concentration	Date of Maximum Concentration	Number of Samples	Number of Detections	Number of Exceedances			Identification of COPCs	
							NJ Ground Water Quality Standard	2014-05 USEPA RSL Tap Water (HQ=0.1)	Weston 1995 Background (Main Post)	Evaluated as COPC in Risk Assessment	Rationale
Arsenic	134		M2MW05	6/13/2011	141	53	15	53	1	No	Higher concentrations at nearly every well occurs early in data set, followed by multiple rounds of nondetects or less than maximum background
Barium	3,930		M2MW05	6/13/2011	141	91	0	18	3	No	Exceedances of max background were anomalous and isolated (the 3 exceedances were in 2 monitoring wells during the June 2011 sampling event). Overall not representative of the vast majority of the dataset.
Beryllium	5.1		M2MW07	3/7/2011	141	14	12	7	7	No	Anomalous occurrence; exceedance of USEPA Tapwater RSL and background only in the 3/2011 sample event at several wells, followed by multiple nondetects
Cadmium	2.44	ER	M2MW24	9/24/2010	141	25	0	13	0	No	Less than maximum background
Calcium	186,000		M2MW03	3/9/2010	141	141	NLE	NLE	76	No	Essential nutrient
Chromium	153		M2MW05	8/23/2011	141	11	3	0	0	No	Less than maximum background
Cobalt	0.803		M2MW21	3/10/2010	141	1	0	1	0	No	Less than maximum background
Copper	106		M2MW22	8/23/2011	141	22	0	1	1	No	Anomalous occurrence; exceeded background in only 1 sample and well
Iron	1,630,000		M2MW05	6/13/2011	141	135	125	117	1	No	Essential nutrient
Lead	20.6		M2MW05	8/23/2011	141	27	11	3	0	No	Less than maximum background
Magnesium	49,200		M2MW02	3/9/2011	141	96	NLE	NLE	0	No	Essential nutrient
Manganese	1,250		M2MW02	8/23/2011	141	137	112	116	31	**Yes**	Exceeds USEPA Tapwater RSL and maximum background in multiple rounds of sampling at MW01, MW02, MW03, MW06, MW09, MW16, MW21 and MW24
Mercury	1.2		M2MW22	8/23/2011	140	22	0	17	9	No	Exceedances of max background were anomalous and were limited to the September 2010 and August 2011 sampling events, and occurred during only 1 event at a given well. Overall not representative of the vast majority of the dataset. Hg exceedances were slight in magnitude (BG = 0.26 ug/L, detections ranged from 0.29 to 0.47 except for 1 anomalous detection of 1.2 ug/L).
Nickel	22.4		M2MW22	8/23/2011	141	28	0	0	0	No	Less than Tapwater RSLs
Potassium	17,300		M2MW05	8/23/2011	141	69	NLE	NLE	0	No	Essential nutrient
Selenium	49.5		M2MW10	3/8/2010	122	13	3	13	9	No	Higher concentrations at several wells occurs early in data set, followed by multiple rounds of nondetects
Silver	10.5		M2MW23	6/11/2010	141	34	0	1	141	No	Anomalous occurrence; exceeded USEPA Tapwater RSLs in only 1 sample and well, followed by multiple sample events where not detected
Sodium	1,330,000		M2MW16	3/14/2011	141	99	10	NLE	25	No	Essential nutrient
Thallium	2.34	ER	M2MW23	3/10/2010	141	5	1	5	0	No	Less than maximum background

TABLE 4.6
GROUNDWATER SAMPLING SUMMARY OF EXCEEDANCES
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Analyte	Maximum Detected Concentration		Location of Maximum Concentration	Date of Maximum Concentration	Number of Samples	Number of Detections	Number of Exceedances			Identification of COPCs	
							NJ Ground Water Quality Standard	2014-05 USEPA RSL Tap Water (HQ=0.1)	Weston 1995 Background (Main Post)	Evaluated as COPC in Risk Assessment	Rationale
Vanadium	88.4		M2MW05	8/23/2011	141	20	NLE	2	0	No	Less than maximum background
Zinc	725		M2MW01	3/14/2011	141	52	0	2	6	No	Exceedances of Tapwater RSL and maximum background are in upgradient well M2MW01

Notes:
(1) Data from the most recent 8 quarters of groundwater sampling are included here, plus data from August 2013 and December 2014 events.
Number of Samples is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.
(2) New Jersey Department of Environmental Protection Ground Water Quality Standards, Specific Ground Water Quality Criteria - Class IIA and Practical Quantitation Levels. (http://www.state.nj.us/dep/wms/bwqsa/Appendix_Table_1.htm)
(3) U.S. Environmental Protection Agency, Regional Screening Levels (RSLs). Residential Tapwaters (TR=1E-06, THQ = 0.1). (http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm). Revised 5/31/14.
RSL values were current at the time the screening was conducted.
(4) Weston, 1995. Final Site Investigation - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December.
(5) B and BJ qualified data were treated as nondetected chemicals and are not considered COPCs.
(6) Essential nutrients (calcium, iron, magnesium, potassium, and sodium) are not considered COPCs.
(7) New Jersey Interim Generic Ground Water Quality Criteria for synthetic organics; see http://www.nj.gov/dep/wms/bwqsa/Appendix_Table_2.htm
µg/L = micrograms/liter.
COPC = contaminant of potential concern.
Dash (-) = background concentrations are given only for metals for use as comparison criteria.
J = estimated (detect or non-detect) value.
ER = Estimated Result.
n/a = not applicable.
NLE = No limit established.

TABLE 4.7
SURFACE WATER SAMPLING SUMMARY RESULTS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA National Recommended Water Quality Criteria [1]	NJDEP SWQS Fresh Water (FW2) Criteria [2]	FTMM02-SS-13					FTMM02-SS-13					FTMM02-SS-13
Sample ID			FTMM02-SW-SS-13-42	FTMM02-SW-SS-13-43	FTMM02-SW-SS-13-44	FTMM02-SW-SS-13-45	FTMM02-SW-SS-13-46	FTMM02-SW-SS-13-47	FTMM02-SW-SS-13-48	FTMM02-SW-SS-13-49	FTMM02-SW-SS-13-50	FTMM02-SW-SS-13-51	FTMM02-SW-SS-13-52
Sample Date			3/13/2007	6/26/2007	9/13/2007	12/19/2007	3/25/2008	6/26/2008	9/30/2008	12/29/2008	3/24/2009	6/29/2009	9/25/2009
Sample Round			42	43	44	45	46	47	48	49	50	51	52
Volatile Organic Compounds (µg/l)													
Acetone [b]	1400	NLE	**1.21 J**	ND	ND	ND	ND	**4.01**	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethene [b]	3.6	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl ethyl ketone [b]	560	NLE	ND	ND	ND	ND	ND	ND	ND	**8.3**	ND	ND	ND
Methyl Tertbutyl Ether [b]	14	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	NLE	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	3.3	0.34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	30	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TIC VOCs (µg/l)													
Total TIC, Volatile	NLE	NLE	ND	ND	ND	ND	ND	ND	ND	**12**	ND	ND	ND
Inorganics (µg/l)													
Antimony	640	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.14	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium [a]	1,000	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium [a]	4	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium [a]	5	3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium [a]	100	92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper [a]	1,300	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead [b]	15	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.57	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	4,600	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	4,200	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Historic Wet Chemistry													
Dissolved Oxygen (mg/l)	NLE	NLE	**8.8**	**6.81**	**6.11**	**3.12**	**8.79**	**8.19**	**8.54**	**6.44**	**4.66**	**8.36**	**8.21**
Fecal Coliform (cfu/100ml)	NLE	NLE	NA	**50**	**3,000**	ND	ND	ND	**650**	ND	ND	NA	NA
Nitrates (mg/l) [a]	10	NLE	ND	ND	ND	NA	**4.27**	**8.08**	ND	ND	ND	ND	NA
pH (su) [a]	5-9	NLE	**6.94**	**7.32**	**7.84**	**6.63**	**7.81**	**8.44**	**7.04**	**7.05**	**6.97**	**7.1**	**6.94**
Phosphate (mg/l)	NLE	NLE	ND	ND	ND	NA	**0.06**	ND	ND	ND	**0.01**	ND	NA
Salinity (%)	NLE	NLE	**0.02**	0 U	0 U	**0.02**	0 U	0 U	0 U	**0.02**	0 U	0 U	0 U
Sulfate (mg/l)	NLE	NLE	**25.7**	**21.3**	**22.7**	NA	**23.1**	**21.04**	**14.5**	**21.8**	**28**	**26.3**	NA
Temperature (c)	NLE	NLE	**8.9**	**22.5**	**19.5**	**4.86**	**8.99**	**22.96**	**18.09**	**8.87**	**6.28**	**21.12**	**17.93**
Total Coliform (cfu/100ml)	NLE	NLE	**250**	**3,150**	**15,600**	**700**	**100**	**3,600**	**4,500**	**1,200**	**1,400**	NA	NA

Notes:

(1) The USEPA Composite National Recommended Water Quality Criteria (NRWQC) 2014-05 refers to the USEPA NRWQC - 2014-07 and 2015-01 RSLs Tapwater & MCL (HQ=0.1)
http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm

(2) The NJ Surface Water Quality Standards (SWQS) Fresh Water (FW2) Criteria refers to the NJDEP SWQS for Human Health for fresh waters as per N.J.A.C 7:9B effective 4-4-11. Available at:
http://www.nj.gov/dep/wms/bwqsa/swqs.htm.

a - U.S. Environmental Protection Agency (USEPA) National Recommended Water Quality Criteria (NRWQC) for protection of human health (water + organism) was used in place of the organism only value. Available at:
http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm.

b - Tapwater RSL was used in place of NRWQC, available at
http://www.epa.gov/region9/superfund/prg/. RSL values were current at the time the screening was conducted.

mg/L = milligrams/liter

µg/L = micrograms/liter

cfu/100 mL = colony-forming units/100 milliliters

Data Flags:

U = non-detect, i.e. not detected equal to or above this value.

J = Estimated concentration exceeds the MDL and is less than the RL.

ER = Estimated result.

mg/L = milligrams/liter; µg/L = micrograms/liter; cfu/100 mL = colony-forming units/100 milliliters.

NA = Not analyzed.

ND = Not detected.

NLE = No limit established.

Detections are Bolded.

Shaded cells = concentration exceeds NJDEP SWQC Human Health (Fresh

Shaded cells = concentration exceeds the USEPA Composite NRWQC

Shaded cells = concentration exceeds NJDEP and USEPA criteria.

TABLE 4.7
SURFACE WATER SAMPLING SUMMARY RESULTS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA National Recommended Water Quality Criteria [1]	NJDEP SWQS Fresh Water (FW2) Criteria [2]	FTMM02-SS-13				FTMM02-SS-15						FTMM02-SS-15	
Sample ID			FTMM02-SW-SS-13-53	FTMM02-SW-SS-13-54	FTMM02-SW-SS-13-55	FTMM02-SW-SS-13-56	FTMM02-SW-SS-15-42	FTMM02-SW-SS-15-43	FTMM02-SW-SS-15-44	FTMM02-SW-SS-15-45	FTMM02-SW-SS-15-46	FTMM02-SW-SS-15-47	FTMM02-SW-SS-15-48
Sample Date			12/7/2009	3/28/2010	6/22/2010	9/21/2010	3/13/2007	6/26/2007	9/13/2007	12/19/2007	3/25/2008	6/26/2008	9/30/2008
Sample Round			53	54	55	56	42	43	44	45	46	47	48
Volatile Organic Compounds (µg/l)													
Acetone [b]	1400	NLE	ND	ND	ND	ND	**0.92 J**	ND	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethene [b]	3.6	NLE	ND	ND	ND	ND	**0.81 J**	**2.14**	**2.81**	ND	**1.35 J**	**2.89**	**0.88 J**
Methyl ethyl ketone [b]	560	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertbutyl Ether [b]	14	70	ND	**0.23 J**	ND	ND	**0.47 J**	ND	**1 J**	ND	**0.88 J**	**0.63 J**	ND
Tert Butyl Alcohol	NLE	NLE	ND	ND	ND	ND	ND	ND	**20.81**	**14.52**	ND	ND	ND
Tetrachloroethene	3.3	0.34	ND	ND	ND	ND	**2.21**	ND	**1.54 J**	**0.93 J**	**2.42**	**2.28**	ND
Trichloroethene	30	1	ND	ND	ND	ND	**0.65 J**	ND	ND	ND	**1.02 J**	**1.01 J**	ND
TIC VOCs (µg/l)													
Total TIC, Volatile	NLE	NLE	ND	ND	ND	ND	ND	ND	ND	**7**	ND	ND	ND
Inorganics (µg/l)													
Antimony	640	5.6	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Arsenic	0.14	0.017	NA	NA	NA	NA	ND	**3.12 ER**	ND	ND	ND	**3.37 ER**	**3.5 ER**
Barium [a]	1,000	2000	NA	NA	NA	NA	**58.8**	**52.6**	**52.5**	**50.6**	**57.4**	**61.5**	**58.4**
Beryllium [a]	4	6	NA	NA	NA	NA	**0.156**	ND	ND	**0.106**	ND	ND	**0.247 ER**
Cadmium [a]	5	3.4	NA	NA	NA	NA	**0.857 ER**	**0.435 ER**	ND	**0.879 ER**	**0.298 ER**	ND	**1.08 ER**
Chromium [a]	100	92	NA	NA	NA	NA	**0.692 ER**	**0.432 ER**	**0.906 ER**	**1.44 ER**	**0.433 ER**	**0.758 ER**	**3.66 ER**
Copper [a]	1,300	NLE	NA	NA	NA	NA	ND	**1.84 ER**	**0.801 ER**	**2.5 ER**	**2 ER**	ND	ND
Lead [b]	15	5	NA	NA	NA	NA	ND	ND	ND	ND	ND	**1.49 ER**	ND
Mercury	0.57	0.05	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND
Nickel	4,600	500	NA	NA	NA	NA	**9.76**	**6.09**	**6.44**	**14.4**	**13**	**6.15**	**10.6**
Selenium	4,200	170	NA	NA	NA	NA	**7.29 ER**	**6.39 ER**	ND	ND	ND	**6.62 ER**	**8.61 ER**
Historic Wet Chemistry													
Dissolved Oxygen (mg/l)	NLE	NLE	**4.37**	**3.89**	**6.74**	**5.98**	**8.41**	**6.94**	**6.54**	**3.01**	**9.47**	**8.28**	**7.55**
Fecal Coliform (cfu/100ml)	NLE	NLE	NA	NA	NA	NA	NA	**100**	**2,000**	**50**	ND	ND	**50**
Nitrates (mg/l) [a]	10	NLE	NA	NA	NA	NA	**1.05**	ND	ND	NA	**2.76**	**5.97**	ND
pH (su) [a]	5-9	NLE	**7.13**	**6.97**	**6.87**	**5.12**	**6.87**	**6.86**	**7.81**	**6.63**	**7.87**	**8.22**	**6.97**
Phosphate (mg/l)	NLE	NLE	NA	NA	NA	NA	ND	ND	ND	NA	**0.07**	ND	ND
Salinity (%)	NLE	NLE	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Sulfate (mg/l)	NLE	NLE	NA	NA	NA	NA	**30**	**20.9**	**22.8**	NA	**21.2**	**17.63**	**18.4**
Temperature (c)	NLE	NLE	**5.11**	**6.58**	**19.71**	**15.74**	**8.21**	**22.3**	**18.7**	**4.82**	**8.62**	**23.47**	**17.6**
Total Coliform (cfu/100ml)	NLE	NLE	NA	NA	NA	NA	**600**	**2,450**	**11,400**	**800**	**120**	**4,080**	**2,650**

Notes:

(1) The USEPA Composite National Recommended Water Quality Criteria (NRWQC) 2014-05 refers to the USEPA NRWQC - 2014-07 and 2015-01 RSLs Tapwater & MCL (HQ=0.1)
http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm

(2) The NJ Surface Water Quality Standards (SWQS) Fresh Water (FW2) Criteria refers to the NJDEP SWQS for Human Health for fresh waters as per N.J.A.C 7:9B effective 4-4-11. Available at:
http://www.nj.gov/dep/wms/bwqsa/swqs.htm.

a - U.S. Environmental Protection Agency (USEPA) National Recommended Water Quality Criteria (NRWQC) for protection of human health (water + organism) was used in place of the organism only value. Available at:
http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm.

b - Tapwater RSL was used in place of NRWQC, available at http://www.epa.gov/region9/superfund/prg/. RSL values were current at the time the screening was conducted.

mg/L = milligrams/liter

µg/L = micrograms/liter

cfu/100 mL = colony-forming units/100 milliliters

Data Flags:

U = non-detect, i.e. not detected equal to or above this value.

J = Estimated concentration exceeds the MDL and is less than the RL.

ER = Estimated result.

mg/L = milligrams/liter; µg/L = micrograms/liter; cfu/100 mL = colony-forming units/100 milliliters.

NA = Not analyzed.

ND = Not detected.

NLE = No limit established.

Detections are Bolded.

Shaded cells = concentration exceeds NJDEP SWQC Human Health (Fresh

Shaded cells = concentration exceeds the USEPA Composite NRWQC

Shaded cells = concentration exceeds NJDEP and USEPA criteria.

TABLE 4.7
SURFACE WATER SAMPLING SUMMARY RESULTS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA National Recommended Water Quality Criteria [1]	NJDEP SWQS Fresh Water (FW2) Criteria [2]	FTMM02-SS-15								FTMM02-SS-24		
Sample ID			FTMM02-SW-SS-15-49	FTMM02-SW-SS-15-50	FTMM02-SW-SS-15-51	FTMM02-SW-SS-15-52	FTMM02-SW-SS-15-53	FTMM02-SW-SS-15-54	FTMM02-SW-SS-15-55	FTMM02-SW-SS-15-56	FTMM02-SW-SS-24-28	FTMM02-SW-SS-24-29	FTMM02-SW-SS-24-30
Sample Date			12/29/2008	3/24/2009	6/29/2009	9/25/2009	12/7/2009	3/28/2010	6/22/2010	9/21/2010	3/13/2007	6/26/2007	9/13/2007
Sample Round			49	50	51	52	53	54	55	56	28	29	30
Volatile Organic Compounds (µg/l)													
Acetone [b]	1400	NLE	ND	ND	ND	ND	ND	ND	ND	ND	**1.33 J**	ND	ND
Cis-1,2-Dichloroethene [b]	3.6	NLE	**0.94 J**	**0.96 J**	**1.33 J**	**1.92**	**0.7**	**1.04**	**1.96**	**2.81**	**0.94 J**	**1.5 J**	**2.06**
Methyl ethyl ketone [b]	560	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertbutyl Ether [b]	14	70	ND	ND	ND	ND	**0.18 J**	**0.24 J**	ND	ND	**0.57 J**	ND	**0.78 J**
Tert Butyl Alcohol	NLE	NLE	ND	ND	ND	ND	**9.16**	ND	ND	ND	ND	ND	**3.88 J**
Tetrachloroethene	3.3	0.34	**1.55 J**	**3.03**	**2.02**	**1.87**	**1.11**	**3.01**	**1.99**	**1.03**	**2.29**	ND	**1.05 J**
Trichloroethene	30	1	ND	**1.26 J**	**0.77 J**	**0.96**	**0.44 J**	**0.88**	**0.75**	**0.61**	**0.69 J**	ND	ND
TIC VOCs (µg/l)													
Total TIC, Volatile	NLE	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics (µg/l)													
Antimony	640	5.6	ND	**17.8 ER**	**5.52**	**6.06**	ND	**6.44 ER**	**6.18 ER**	**10.8 ER**	NA	NA	NA
Arsenic	0.14	0.017	ND	**66.6**	**14.1**	**19.6**	ND	**1.45 ER**	ND	**1.13 ER**	NA	NA	NA
Barium [a]	1,000	2000	**58.3**	**60.1**	**58.3**	**61.2**	**47.5**	**59.6**	**61.4**	**49.8**	NA	NA	NA
Beryllium [a]	4	6	**0.336 ER**	ND	ND	ND	**0.0702 ER**	**0.082 ER**	ND	ND	NA	NA	NA
Cadmium [a]	5	3.4	**0.471 ER**	ND	ND	ND	**0.608 ER**	ND	ND	**0.512 ER**	NA	NA	NA
Chromium [a]	100	92	**3.37 ER**	**0.838 ER**	**0.628**	ND	**3.85 ER**	**1.07 ER**	ND	ND	NA	NA	NA
Copper [a]	1,300	NLE	ND	**1.45 ER**	**2.49**	**4.6**	ND	ND	**2.49 ER**	**1.4 ER**	NA	NA	NA
Lead [b]	15	5	**5.74**	**2.59 ER**	ND	ND	ND	ND	ND	ND	NA	NA	NA
Mercury	0.57	0.05	ND	ND	ND	ND	**0.18 ER**	ND	ND	ND	NA	NA	NA
Nickel	4,600	500	**11.9**	**11.2**	**12**	**9.18**	**8.05**	**16**	**8.07**	**8.88**	NA	NA	NA
Selenium	4,200	170	ND	**104**	**24.3**	**24.5**	ND	NA	NA	NA	NA	NA	NA
Historic Wet Chemistry													
Dissolved Oxygen (mg/l)	NLE	NLE	**6.99**	**7.85**	**8.08**	**8.61**	**4.65**	**4.45**	**7.86**	**4.67**	**9.37**	**6.81**	**4.61**
Fecal Coliform (cfu/100ml)	NLE	NLE	**20**	ND	NA	NA	NA	NA	NA	NA	NA	**100**	**550**
Nitrates (mg/l) [a]	10	NLE	ND	ND	ND	NA	NA	NA	NA	NA	ND	ND	ND
pH (su) [a]	5-9	NLE	**7.09**	**7.11**	**7.42**	**7.05**	**7.21**	**6.96**	**7.34**	**5.92**	**7.12**	**7.28**	**8.16**
Phosphate (mg/l)	NLE	NLE	ND	**0.03**	ND	NA	NA	NA	NA	NA	ND	ND	ND
Salinity (%)	NLE	NLE	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Sulfate (mg/l)	NLE	NLE	**19.1**	**29**	**18.9**	NA	NA	NA	NA	NA	**26.5**	**21.4**	**22.9**
Temperature (c)	NLE	NLE	**8.33**	**6.59**	**23.58**	**18.31**	**4.79**	**7.5**	**22.74**	**16.01**	**8.89**	**23.3**	**20.2**
Total Coliform (cfu/100ml)	NLE	NLE	**600**	**1,460**	NA	NA	NA	NA	NA	NA	**600**	**2,650**	**9,800**

Notes:

(1) The USEPA Composite National Recommended Water Quality Criteria (NRWQC) 2014-05 refers to the USEPA NRWQC - 2014-07 and 2015-01 RSLs Tapwater & MCL (HQ=0.1)
http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm

(2) The NJ Surface Water Quality Standards (SWQS) Fresh Water (FW2) Criteria refers to the NJDEP SWQS for Human Health for fresh waters as per N.J.A.C 7:9B effective 4-4-11. Available at:
http://www.nj.gov/dep/wms/bwqsa/swqs.htm.

a - U.S. Environmental Protection Agency (USEPA) National Recommended Water Quality Criteria (NRWQC) for protection of human health (water + organism) was used in place of the organism only value. Available at:
http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm.

b - Tapwater RSL was used in place of NRWQC, available at http://www.epa.gov/region9/superfund/prg/. RSL values were current at the time the screening was conducted.

mg/L = milligrams/liter

µg/L = micrograms/liter

cfu/100 mL = colony-forming units/100 milliliters

Data Flags:

U = non-detect, i.e. not detected equal to or above this value.

J = Estimated concentration exceeds the MDL and is less than the RL.

ER = Estimated result.

mg/L = milligrams/liter; µg/L = micrograms/liter; cfu/100 mL = colony-forming units/100 milliliters.

NA = Not analyzed.

ND = Not detected.

NLE = No limit established.

Detections are Bolded.

Shaded cells = concentration exceeds NJDEP SWQC Human Health (Fresh

Shaded cells = concentration exceeds the USEPA Composite NRWQC

Shaded cells = concentration exceeds NJDEP and USEPA criteria.

TABLE 4.7
SURFACE WATER SAMPLING SUMMARY RESULTS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA National Recommended Water Quality Criteria [1]	NJDEP SWQS Fresh Water (FW2) Criteria [2]	FTMM02-SS-24		FTMM02-SS-24					FTMM02-SS-24			
Sample ID			FTMM02-SW-SS-24-31	FTMM02-SW-SS-24-32	FTMM02-SW-SS-24-33	FTMM02-SW-SS-24-34	FTMM02-SW-SS-24-35	FTMM02-SW-SS-24-36	FTMM02-SW-SS-24-37	FTMM02-SW-SS-24-38	FTMM02-SW-SS-24-39	FTMM02-SW-SS-24-40	FTMM02-SW-SS-24-41
Sample Date			12/19/2007	3/25/2008	6/26/2008	9/30/2008	12/29/2008	3/24/2009	6/29/2009	9/25/2009	12/7/2009	3/28/2010	6/22/2010
Sample Round			31	32	33	34	35	36	37	38	39	40	41
Volatile Organic Compounds (µg/l)													
Acetone [b]	1400	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cis-1,2-Dichloroethene [b]	3.6	NLE	ND	**1.16 J**	**1.97 J**	**0.92 J**	**0.81 J**	**0.79 J**	**1.01 J**	**1.15**	**0.82**	**0.92**	**1.03**
Methyl ethyl ketone [b]	560	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Tertbutyl Ether [b]	14	70	ND	**0.82 J**	**0.46 J**	ND	ND	ND	ND	ND	ND	ND	ND
Tert Butyl Alcohol	NLE	NLE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	3.3	0.34	**0.97 J**	**1.93 J**	**1.81 J**	ND	**1.41 J**	**2.52**	**1.87 J**	**1.19**	**1.24**	**2.66**	**1.2**
Trichloroethene	30	1	ND	**0.83 J**	**0.72 J**	ND	ND	**1.04 J**	**0.66 J**	**0.61**	**0.48 J**	**0.79**	**0.42 J**
TIC VOCs (µg/l)													
Total TIC, Volatile	NLE	NLE	**4**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Inorganics (µg/l)													
Antimony	640	5.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	0.14	0.017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium [a]	1,000	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium [a]	4	6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium [a]	5	3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium [a]	100	92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper [a]	1,300	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead [b]	15	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	0.57	0.05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	4,600	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	4,200	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Historic Wet Chemistry													
Dissolved Oxygen (mg/l)	NLE	NLE	**2.9**	**9.63**	**8.01**	**9.53**	**8.15**	**4.37**	**8.12**	**7.58**	**5.6**	**4.39**	**7.53**
Fecal Coliform (cfu/100ml)	NLE	NLE	**50**	ND	**40**	**150**	**20**	ND	NA	NA	NA	NA	NA
Nitrates (mg/l) [a]	10	NLE	NA	**3.51**	**7.53**	ND	ND	ND	ND	NA	NA	NA	NA
pH (su) [a]	5-9	NLE	**6.88**	**7.95**	**8.43**	**7.3**	**7.19**	**7.16**	**7.45**	**7.03**	**7.22**	**7.09**	**7.27**
Phosphate (mg/l)	NLE	NLE	NA	**0.04**	ND	ND	ND	**0.05**	ND	NA	NA	NA	NA
Salinity (%)	NLE	NLE	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Sulfate (mg/l)	NLE	NLE	NA	**21.9**	**32.99**	**37.2**	**25.4**	**43.2**	**33.1**	NA	NA	NA	NA
Temperature (c)	NLE	NLE	**4.8**	**8.99**	**22.94**	**18.16**	**8.29**	**5.74**	**23.17**	**19.13**	**4.49**	**7.34**	**22.32**
Total Coliform (cfu/100ml)	NLE	NLE	**600**	**100**	**4,720**	**4,350**	**1,220**	**1,220**	NA	NA	NA	NA	NA

Notes:

(1) The USEPA Composite National Recommended Water Quality Criteria (NRWQC) 2014-05 refers to the USEPA NRWQC - 2014-07 and 2015-01 RSLs Tapwater & MCL (HQ=0.1)
http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm

(2) The NJ Surface Water Quality Standards (SWQS) Fresh Water (FW2) Criteria refers to the NJDEP SWQS for Human Health for fresh waters as per N.J.A.C 7:9B effective 4-4-11. Available at:
http://www.nj.gov/dep/wms/bwqsa/swqs.htm.

a - U.S. Environmental Protection Agency (USEPA) National Recommended Water Quality Criteria (NRWQC) for protection of human health (water + organism) was used in place of the organism only value. Available at:
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mg/L = milligrams/liter

µg/L = micrograms/liter

cfu/100 mL = colony-forming units/100 milliliters

Data Flags:

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J = Estimated concentration exceeds the MDL and is less than the RL.

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mg/L = milligrams/liter; µg/L = micrograms/liter; cfu/100 mL = colony-forming units/100 milliliters.

NA = Not analyzed.

ND = Not detected.

NLE = No limit established.

Detections are Bolded.

Shaded cells = concentration exceeds NJDEP SWQC Human Health (Fresh

Shaded cells = concentration exceeds the USEPA Composite NRWQC

Shaded cells = concentration exceeds NJDEP and USEPA criteria.

TABLE 4.7
SURFACE WATER SAMPLING SUMMARY RESULTS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Loc ID	USEPA National Recommended Water Quality Criteria [1]	NJDEP SWQS Fresh Water (FW2) Criteria [2]	FTMM02-SS-24
Sample ID			FTMM02-SW-SS-24-42
Sample Date			9/21/2010
Sample Round			42
Volatile Organic Compounds (µg/l)			
Acetone [b]	1400	NLE	ND
Cis-1,2-Dichloroethene [b]	3.6	NLE	**1.56**
Methyl ethyl ketone [b]	560	NLE	ND
Methyl Tertbutyl Ether [b]	14	70	ND
Tert Butyl Alcohol	NLE	NLE	ND
Tetrachloroethene	3.3	0.34	**0.65**
Trichloroethene	30	1	**0.38 J**
TIC VOCs (µg/l)			
Total TIC, Volatile	NLE	NLE	ND
Inorganics (µg/l)			
Antimony	640	5.6	NA
Arsenic	0.14	0.017	NA
Barium [a]	1,000	2000	NA
Beryllium [a]	4	6	NA
Cadmium [a]	5	3.4	NA
Chromium [a]	100	92	NA
Copper [a]	1,300	NLE	NA
Lead [b]	15	5	NA
Mercury	0.57	0.05	NA
Nickel	4,600	500	NA
Selenium	4,200	170	NA
Historic Wet Chemistry			
Dissolved Oxygen (mg/l)	NLE	NLE	**4.35**
Fecal Coliform (cfu/100ml)	NLE	NLE	NA
Nitrates (mg/l) [a]	10	NLE	NA
pH (su) [a]	5-9	NLE	**5.78**
Phosphate (mg/l)	NLE	NLE	NA
Salinity (%)	NLE	NLE	0 U
Sulfate (mg/l)	NLE	NLE	NA
Temperature (c)	NLE	NLE	**16.38**
Total Coliform (cfu/100ml)	NLE	NLE	NA

Notes:

(1) The USEPA Composite National Recommended Water Quality Criteria (NRWQC) 2014-05 refers to the USEPA NRWQC - 2014-07 and 2015-01 RSLs Tapwater & MCL (HQ=0.1)
http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm

(2) The NJ Surface Water Quality Standards (SWQS) Fresh Water (FW2) Criteria refers to the NJDEP SWQS for Human Health for fresh waters as per N.J.A.C 7:9B effective 4-4-11. Available at:
http://www.nj.gov/dep/wms/bwqsa/swqs.htm.

a - U.S. Environmental Protection Agency (USEPA) National Recommended Water Quality Criteria (NRWQC) for protection of human health (water + organism) was used in place of the organism only value. Available at:
http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm.

b - Tapwater RSL was used in place of NRWQC, available at http://www.epa.gov/region9/superfund/prg/. RSL values were current at the time the screening was conducted.

mg/L = milligrams/liter

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Data Flags:

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J = Estimated concentration exceeds the MDL and is less than the RL.

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mg/L = milligrams/liter; µg/L = micrograms/liter; cfu/100 mL = colony-forming units/100 milliliters.

NA = Not analyzed.

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Detections are Bolded.

Shaded cells = concentration exceeds NJDEP SWQC Human Health (Fresh

Shaded cells = concentration exceeds the USEPA Composite NRWQC

Shaded cells = concentration exceeds NJDEP and USEPA criteria.

TABLE 4.8
SURFACE WATER SAMPLING SUMMARY OF EXCEEDANCES
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Analyte	Maximum Detected Concentration		Location of Maximum Concentration	Number of Samples	Number of Detections	Number of Exceedances		Evaluated as COPC in Risk Assessment	Rationale
						USEPA National Recommended Water Quality Criteria [2]	NJDEP SWQS Fresh Water (FW2) Criteria [3]		
Volatile Organic Compounds (µg/l)									
Acetone	4.01		FTMM02-SS-13	24	4	0	NLE	No	Less than NRWQC
Cis-1,2-Dichloroethene	2.81		FTMM02-SS-15	24	16	0	NLE	No	Less than NRWQC
Methyl ethyl ketone	8.3		FTMM02-SS-13	24	1	0	NLE	No	Less than NRWQC
Methyl Tertbutyl Ether	0.24	J	FTMM02-SS-15	24	3	0	0	No	Less than NRWQC
Tert Butyl Alcohol	9.16		FTMM02-SS-15	24	1	NLE	NLE	No	No NRWQC
Tetrachloroethene	3.03		FTMM02-SS-15	24	16	0	16	No	Less than NRWQC
Trichloroethene	1.26	J	FTMM02-SS-15	24	14	0	2	No	Less than NRWQC
TIC VOCs (µg/l)									
Total TIC, Volatile	12		FTMM02-SS-13	24	1	NLE	NLE	No	No NRWQC
Inorganics (µg/l)									
Antimony	17.8	ER	FTMM02-SS-15	8	6	0	5	No	Less than NRWQC
Arsenic	66.6		FTMM02-SS-15	8	5	5	5	No	Sampling location upgradient of the site; not consistently detected
Barium	61.4		FTMM02-SS-15	8	8	0	0	No	Less than NRWQC
Beryllium	0.336	ER	FTMM02-SS-15	8	3	0	0	No	Less than NRWQC
Cadmium	0.608	ER	FTMM02-SS-15	8	3	0	0	No	Less than NRWQC
Chromium	3.85	ER	FTMM02-SS-15	8	5	0	0	No	Less than NRWQC
Copper	4.6		FTMM02-SS-15	8	5	0	NLE	No	Less than NRWQC
Lead	5.74		FTMM02-SS-15	8	2	0	1	No	Less than NRWQC
Mercury	0.18	ER	FTMM02-SS-15	8	1	0	1	No	Less than NRWQC
Nickel	16		FTMM02-SS-15	8	8	0	0	No	Less than NRWQC
Selenium	104		FTMM02-SS-15	5	3	0	0	No	Less than NRWQC
Historic Wet Chemistry									
Dissolved Oxygen (mg/l)	8.61		FTMM02-SS-15	24	24	NLE	NLE	No	No NRWQC
Fecal Coliform (cfu/100ml)	20		FTMM02-SS-15 FTMM02-SS-24	6	2	NLE	NLE	No	No NRWQC
Nitrates (mg/L)	8.08		FTMM02-SS-13	45	7	0	NLE	No	Less than NRWQC
pH (su)	7.45		FTMM02-SS-24	24	0	0	NLE	No	Within NRWQC Range
Phosphate (mg/l)	0.05		FTMM02-SS-24	9	3	NLE	NLE	No	No NRWQC
Salinity (%)	0.02		FTMM02-SS-13	24	1	NLE	NLE	No	No NRWQC
Sulfate (mg/l)	43.2		FTMM02-SS-24	9	9	NLE	NLE	No	No NRWQC
Temperature (c)	23.58		FTMM02-SS-15	24	24	NLE	NLE	No	No NRWQC
Total Coliform (cfu/100ml)	1,460		FTMM02-SS-15	6	6	NLE	NLE	No	No NRWQC

Notes:

(1) The samples from the most recent 8 quarters of surface water sampling are included here

(2) The National Recommended Water Quality Criteria refers to the USEPA NRWQC - 2014-05 and the 2015-01 RSLs Tapwater & MCL (HQ=0.1) http://water.epa.gov/scitech/swguidance/standards/criteria/current/index.cfm

(3) The NJ Surface Water Quality Standards (SWQS) Fresh Water (FW2) Criteria refers to the NJDEP SWQS for Human Health for fresh waters as per N.J.A.C 7:9B effective 4-4-11. Available at: http://www.nj.gov/dep/wms/bwqsa/swqs.htm.

mg/L = milligrams/liter; µg/L = micrograms/liter; cfu/100 mL = colony-forming units/100 milliliters

COPC = contaminant of potential concern

mg/L = milligrams/liter; µg/L = micrograms/liter; cfu/100 mL = colony-forming units/100 milliliters

NLE = No limit established

ER = Estimated result.

TABLE 4.9
SEDIMENT PCB SAMPLING SUMMARY
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Boring ID	Sample Depth (bgs)	Date Collected	Total PCBs (mg/kg)	Aroclor 1254 (mg/kg)
B-1	0-6"	4/12/2000	ND	ND
	6"-12"	4/12/2000	ND	ND
B-2	0-6"	4/12/2000	ND	ND
	6"-12"	4/12/2000	ND	ND
B-3	0-6"	4/12/2000	ND	ND
	6"-12"	4/12/2000	ND	ND
	18"-24"	4/12/2000	ND	ND
B-4	0-6"	4/12/2000	ND	ND
	6"-12"	4/12/2000	ND	ND
B-5	0-6"	4/12/2000	ND	ND
	6"-12"	4/12/2000	ND	ND
B-6	0-6"	4/12/2000	ND	ND
	6"-12"	4/12/2000	ND	ND
B-7	0-6"	4/12/2000	ND	ND
	6"-12"	4/12/2000	ND	ND
B-8	0-6"	4/12/2000	ND	ND
	6"-12"	4/12/2000	ND	ND
B-9	0-6"	4/12/2000	ND	ND
	6"-12"	4/12/2000	ND	ND
B-10	0-6"	4/12/2000	ND	ND
	6"-12"	4/12/2000	ND	ND
B-11	0-6"	4/12/2000	**0.047**	**0.047**
	6"-12"	4/12/2000	ND	ND
B-12	0-6"	4/12/2000	ND	ND
	6"-12"	4/12/2000	ND	ND
B-12 (Dup)	0-6"	4/12/2000	**0.055**	**0.055**
	6"-12"	4/12/2000	ND	ND

TABLE 4.9
SEDIMENT PCB SAMPLING SUMMARY
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

NJDEP RDCSRS	0.2	0.2
NJDEP NRDCSRS	1	1
USEPA RSL - Residential	NLE	0.11
USEPA RSL - NonResidential	NLE	0.74

Notes:

PCBs = Polychlorinated Biphenyls

bgs = below ground surface

mg/kg = milligram per kilogram

Dup = duplicate

NLE = No limit established

NJDEP = New Jersey Department of Environmental Protection

USEPA = United States Environmental Protection Agency

Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's May 7, 2012 Remediation Standards. http://www.nj.gov/dep/rules/rules/njac7_26d.pdf
- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's May 7, 2012 Remediation Standards. http://www.nj.gov/dep/rules/rules/njac7_26d.pdf
- The 2014-05 USEPA RSL Residential Soil (HQ=0.1) refers to the USEPA's Region 9 Regional Screening Levels (HQ=0.1) - 5/31/2014 http://www.epa.gov/region9/superfund/prg/
- The 2014-05 USEPA RSL Industrial Soil (HQ=0.1) refers to the USEPA's Region 9 Regional Screening Levels (HQ=0.1) - 5/31/2014 http://www.epa.gov/region9/superfund/prg/

RSL values were current at the time that the screening was conducted.

TABLE 6.1
RISK RATIO CALCULATIONS FOR POTENTIAL EXPOSURE TO SOIL BY A CURRENT/FUTURE OUTDOOR WORKER
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

CAS No.	Compound	Exposure Point Concentration (EPC) (mg/kg) [1]			USEPA Regional Screening Level Industrial Soil (HQ = 1.0) (mg/kg) [2]		Carcinogenic? [3]	Percent of cumulative non-carcinogenic risk?	Percent of cumulative carcinogenic risk?	Outdoor worker Non-Carcinogenic Risk Ratio (EPC/USEPA RSL)	Outdoor worker Carcinogenic Risk Ratio (EPC/USEPA RSL)
					non-carcinogenic	carcinogenic					
Volatile Organic Compounds											
67-66-3	Chloroform	2.5		Max	1000	1.4	both	0.32%	1.9%	0.0025	1.8E-06
Semivolatile Organic Compounds											
56-55-3	Benzo[a]anthracene	9.5		Max	--	2.9	yes	--	3.5%	--	3.3E-06
50-32-8	Benzo[a]pyrene	10	D	Max	--	0.29	yes	--	37%	--	3.4E-05
205-99-2	Benzo[b]fluoranthene	13	D	Max	--	2.9	yes	--	4.8%	--	4.5E-06
207-08-9	Benzo[k]fluoranthene	11	D	Max	--	29	yes	--	0.41%	--	3.8E-07
53-70-3	Dibenz[a,h]anthracene	2.0		Max	--	0.29	yes	--	7.4%	--	6.9E-06
193-39-5	Indeno[1,2,3-cd]pyrene	3.3		Max	--	2.9	yes	--	1.2%	--	1.1E-06
Pesticides & PCBs											
72-55-9	4,4'-DDE	3.7		Max	--	9.3	yes	--	0.43%	--	4.0E-07
50-29-3	4,4'-DDT	6.8		Max	520	8.5	both	1.7%	0.86%	0.013	8.0E-07
60-57-1	Dieldrin	0.091		Max	41	0.14	both	0.29%	0.70%	0.0022	6.5E-07
12674-11-2	Aroclor-1016	5.7		UCL	51	27	both	14%	0.23%	0.11	2.1E-07
53469-21-9	Aroclor-1242	7.6		UCL	--	0.97	yes	--	8.4%	--	7.9E-06
12672-29-6	Aroclor-1248	3.1		Max	--	0.94	yes	--	3.5%	--	3.3E-06
11097-69-1	Aroclor-1254	0.44		UCL	15	0.97	both	3.8%	0.48%	0.029	4.5E-07
11096-82-5	Aroclor-1260	10		Max	--	0.99	yes	--	11%	--	1.1E-05
1336-36-3	PCB (total)	13		UCL	--	0.97	yes	--	14%	--	1.3E-05
Metals											
7429-90-5	Aluminum	32000		Max	1100000	--	no	3.8%	--	0.029	--
7440-36-0	Antimony	8.5		Max	470	--	no	2.3%	--	0.018	--
7440-38-2	Arsenic	12		UCL	480	3	both	3.1%	4.1%	0.024	3.9E-06
7440-43-9	Cadmium	16		UCL	980	9300	both	2.1%	0.0018%	0.016	1.7E-09
7440-48-4	Cobalt	36		Max	350	1900	both	13%	0.020%	0.10	1.9E-08
7440-50-8	Copper	391		Max	47000	--	no	1.1%	--	0.0083	--
7439-96-5	Manganese	4680		Max	26000	--	no	23%	--	0.18	--
7439-97-6	Mercury	1.03		UCL	40	--	no	3.3%	--	0.026	--
7440-02-0	Nickel	1760		Max	22000	64000	both	10%	0.029%	0.080	2.8E-08
7440-28-0	Thallium	1.0		Max	12	--	no	11%	--	0.086	--
7440-62-2	Vanadium	189		Max	5800	--	no	4.2%	--	0.033	--
7440-66-6	Zinc	4510		Max	350000	--	no	1.7%	--	0.013	--
Lead											
7439-92-1	Lead	63		UCL	800	--	no	--	--	0.08	--
									Cumulative Risk Ratio	**0.8**	**9E-05**

(1) Exposure point concentration (EPC) is the maximum detected concentration or 95% UCL for each analyte for all soil samples combined. 95% UCLs are calculated using ProUCL (version 5.0) and the output files are presented in **Appendix B**. 95% UCLs are presented in blue font.

(2) USEPA Regional Screening Level (RSL) for Industrail soil, Target Risk (TR) = 1 x 10^{-6} and Target Hazard Quotient (THQ) = 1.0. Revised June 2015. http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/docs/composite_sl_table_run_JUNE2015_rev.pdf

(3) "yes" indicates that the chemical exerts carcinogenic effects; "no" indicates that the chemical exerts non-carcinogenic effects; and "both" indicates that the chemical exerts both carcinogenic and non-carcinogenic effects

mg/kg = milligrams per kilogram

Max = Maximum detected concentration

UCL = Upper confidence limit

D = Result from dilution of sample

TABLE 6.2
RISK RATIO CALCULATIONS FOR POTENTIAL EXPOSURE TO SOIL BY A FUTURE UTILITY WORKER
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

CAS No.	Compound	Exposure Point Concentration (EPC) (mg/kg) [1]		Utility Worker Calculated Screening Level (SL) (HQ = 1.0) (mg/kg) [2]		Carcinogenic? [3]	Percent of cumulative non-carcinogenic risk?	Percent of cumulative carcinogenic risk?	Utility Worker Non-Carcinogenic Risk Ratio (EPC/SL)	Utility Worker Carcinogenic Risk Ratio (EPC/SL)
				non-carcinogenic	carcinogenic					
Volatile Organic Compounds										
67-66-3	Chloroform	2.5	Max	8990	380	both	0.10%	0.60%	0.00028	6.6E-09
Semivolatile Organic Compounds										
56-55-3	Benzo[a]anthracene	9.5	Max	--	243	yes	--	3.6%	--	3.9E-08
50-32-8	Benzo[a]pyrene	10 D	Max	--	24	yes	--	38%	--	4.1E-07
205-99-2	Benzo[b]fluoranthene	13 D	Max	--	243	yes	--	4.9%	--	5.3E-08
207-08-9	Benzo[k]fluoranthene	11 D	Max	--	2430	yes	--	0.42%	--	4.5E-09
53-70-3	Dibenz[a,h]anthracene	2.0	Max	--	24	yes	--	7.6%	--	8.2E-08
193-39-5	Indeno[1,2,3-cd]pyrene	3.3	Max	--	243	yes	--	1.2%	--	1.4E-08
Pesticides & PCBs										
72-55-9	4,4'-DDE	3.7	Max	--	602	yes	--	0.57%	--	6.2E-09
50-29-3	4,4'-DDT	6.8	Max	1420	585	both	1.7%	1.1%	0.0048	1.2E-08
60-57-1	Dieldrin	0.091	Max	131	12	both	0.25%	0.73%	0.00069	7.9E-09
12674-11-2	Aroclor-1016	5.7	UCL	175	2450	both	12%	0.21%	0.033	2.3E-09
53469-21-9	Aroclor-1242	7.6	UCL	--	86	yes	--	8.1%	--	8.8E-08
12672-29-6	Aroclor-1248	3.1	Max	--	85	yes	--	3.3%	--	3.6E-08
11097-69-1	Aroclor-1254	0.44	UCL	50	86	both	3.2%	0.47%	0.0087	5.1E-09
11096-82-5	Aroclor-1260	10	Max	--	87	yes	--	11%	--	1.2E-07
1336-36-3	PCB (total)	13	UCL	--	86	yes	--	13%	--	1.5E-07
Metals										
7429-90-5	Aluminum	32000	Max	2930000	--	no	4.0%	--	0.011	--
7440-36-0	Antimony	8.5	Max	1180	--	no	2.6%	--	0.0072	--
7440-38-2	Arsenic	12	UCL	1390	216	both	3.0%	4.9%	0.0083	5.4E-08
7440-43-9	Cadmium	16	UCL	2800	4590000	both	2.0%	0.00031%	0.0056	3.4E-12
7440-48-4	Cobalt	36	Max	884	918000	both	15%	0.0036%	0.041	3.9E-11
7440-50-8	Copper	391	Max	118000	--	no	1.2%	--	0.0033	--
7439-96-5	Manganese	4680	Max	69900	--	no	24%	--	0.067	--
7439-97-6	Mercury	1.03	UCL	455	--	no	0.82%	--	0.0023	--
7440-02-0	Nickel	1760	Max	58700	31800000	both	11%	0.0051%	0.030	5.5E-11
7440-28-0	Thallium	1.0	Max	30	--	no	13%	--	0.035	--
7440-62-2	Vanadium	189	Max	14800	--	no	4.6%	--	0.013	--
7440-66-6	Zinc	4510	Max	885000	--	no	1.9%	--	0.0051	--
Lead										
7439-92-1	Lead [4]	63	UCL	1400	--	no	--	--	0.05	--
								Cumulative Risk Ratio	**0.3**	**1E-06**

(1) Exposure point concentration (EPC) is the maximum detected concentration or 95% UCL for each analyte for all soil samples combined. 95% UCLs are calculated using ProUCL (version 5.0) and the output files are presented in **Appendix B**. 95% UCLs are presented in blue font.

(2) Calculated screening level for utility workers using the USEPA RSL calculator for outdoor worker, using site-specific and receptor-specific exposure parameters. The calculations and exposure parameters are provided in **Appendix B.**

(3) "yes" indicates that the chemical exerts carcinogenic effects; "no" indicates that the chemical exerts non-carcinogenic effects; and "both" indicates that the chemical exerts both carcinogenic and non-carcinogenic effects

(4) Utility Worker Soil Screening Level for Lead was generated using USEPA's Adult Lead Model (ALM). ALM inputs provided in **Appendix B**.

mg/kg = milligrams per kilogram
Max = Maximum detected concentration
UCL = Upper confidence limit
D = Result from dilution of sample

TABLE 6.3
RISK RATIO CALCULATIONS FOR POTENTIAL EXPOSURE TO SOIL BY A FUTURE RECREATIONAL USER
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

CAS No.	Compound	Exposure Point Concentration (EPC) (mg/kg) [1]		Recreational User Soil Calculated Screening Level (SL) (HQ = 1.0) (mg/kg) [2]		Carcinogenic? [3]	Percent of cumulative non-carcinogenic risk?	Percent of cumulative carcinogenic risk?	Recreational User Non-Carcinogenic Risk Ratio (EPC/SL)	Recreational User Carcinogenic Risk Ratio (EPC/SL)
				non-carcinogenic	carcinogenic					
Volatile Organic Compounds										
67-66-3	Chloroform	2.5	Max	21200	38	both	0.094%	0.26%	0.00012	6.6E-08
Semivolatile Organic Compounds										
56-55-3	Benzo[a]anthracene	9.5	Max	--	7.6	yes	--	4.9%	--	1.2E-06
50-32-8	Benzo[a]pyrene	10 D	Max	--	0.76	yes	--	52%	--	1.3E-05
205-99-2	Benzo[b]fluoranthene	13 D	Max	--	7.6	yes	--	6.8%	--	1.7E-06
207-08-9	Benzo[k]fluoranthene	11 D	Max	--	76.3	yes	--	0.57%	--	1.4E-07
53-70-3	Dibenz[a,h]anthracene	2.0	Max	--	0.76	yes	--	10%	--	2.6E-06
193-39-5	Indeno[1,2,3-cd]pyrene	3.3	Max	--	7.6	yes	--	1.7%	--	4.3E-07
Pesticides & PCBs										
72-55-9	4,4'-DDE	3.7	Max	--	57.1	yes	--	0.26%	--	6.5E-08
50-29-3	4,4'-DDT	6.8	Max	3090	53.0	both	1.8%	0.51%	0.0022	1.3E-07
60-57-1	Dieldrin	0.091	Max	261	0.95	both	0.28%	0.38%	0.00035	9.6E-08
12674-11-2	Aroclor-1016	5.7	UCL	335	196	both	14%	0.12%	0.017	2.9E-08
53469-21-9	Aroclor-1242	7.6	UCL	--	6.9	yes	--	4.4%	--	1.1E-06
12672-29-6	Aroclor-1248	3.1	Max	--	6.8	yes	--	1.8%	--	4.5E-07
11097-69-1	Aroclor-1254	0.44	UCL	96	6.9	both	3.7%	0.25%	0.0046	6.3E-08
11096-82-5	Aroclor-1260	10	Max	--	6.9	yes	--	6.0%	--	1.5E-06
1336-36-3	PCB (total)	13	UCL	--	6.9	yes	--	7.2%	--	1.8E-06
Metals										
7429-90-5	Aluminum	32000	Max	6670000	--	no	3.8%	--	0.0048	--
7440-36-0	Antimony	8.5	Max	2680	--	no	2.5%	--	0.0032	--
7440-38-2	Arsenic	12	UCL	2930	19	both	3.2%	2.4%	0.0040	6.1E-07
7440-43-9	Cadmium	16	UCL	6000	459000	both	2.1%	0.00013%	0.0026	3.4E-11
7440-48-4	Cobalt	36	Max	2010	91800	both	14%	0.0016%	0.018	3.9E-10
7440-50-8	Copper	391	Max	268000	--	no	--	--	0.0015	--
7439-96-5	Manganese	4680	Max	159000	--	no	--	--	0.029	--
7439-97-6	Mercury	1.0	UCL	1090	--	no	--	--	0.00094	--
7440-02-0	Nickel	1760	Max	133000	3180000	both	--	0.0022%	0.013	5.5E-10
7440-28-0	Thallium	1.03	Max	67	--	no	--	--	0.015	--
7440-62-2	Vanadium	189	Max	33700	--	no	--	--	0.0056	--
7440-66-6	Zinc	4510	Max	2010000	--	no	--	--	0.0022	--
Lead										
7439-92-1	Lead [4]	63	UCL	2700	--	no	--	--	0.02	--
						Cumulative Risk Ratio			**0.1**	**3E-05**

(1) Exposure point concentration (EPC) is the maximum detected concentration or 95% UCL for each analyte for all soil samples combined. 95% UCLs are calculated using ProUCL (version 5.0) and the output files are presented in **Appendix B**. 95% UCLs are presented in blue font.

(2) Calculated screening level for recreational users using the USEPA RSL calculator for recreator, using site-specific and receptor-specific exposure parameters. The calculations and exposure parameters are provided in **Appendix B**.

(3) "yes" indicates that the chemical exerts carcinogenic effects; "no" indicates that the chemical exerts non-carcinogenic effects; and "both" indicates that the chemical exerts both carcinogenic and non-carcinogenic effects

(4) Future Recreational User Soil Screening Level for Lead was generated using USEPA's Adult Lead Model (ALM). ALM inputs provided in **Appendix B**.

mg/kg = milligrams per kilogram

Max = Maximum detected concentration

SL = Screening level

UCL = Upper confidence limit

D = Result from dilution of sample

TABLE 6.4
RISK RATIO CALCULATIONS FOR POTENTIAL EXPOSURE TO GROUNDWATER BY A FUTURE UTILITY WORKER
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

CAS No.	Compound	Exposure Point Concentration (EPC) (µg/L) [1]		Utility Worker Calculated Screening Level (SL) (HQ = 1.0) (µg/L) [2]		Carcinogenic? [3]	Percent of cumulative non-carcinogenic risk?	Percent of cumulative carcinogenic risk?	Utility worker Non-Carcinogenic Risk Ratio (EPC/SL)	Utility Worker Carcinogenic Risk Ratio (EPC/SL)
				non-carcinogenic	carcinogenic					
Volatile Organic Compounds										
106-46-7	1,4-Dichlorobenzene	7.56	Max	90600	16800	both	0.44%	6.0%	0.000083	4.5E-10
71-43-2	Benzene	43	Max	19400	6130	both	12%	94%	0.0022	7.0E-09
108-90-7	Chlorobenzene	133	Max	48500	--	no	14%	--	0.0027	--
1634-04-4	Methyl Tertbutyl Ether	26	Max	--	783000	yes	--	0.44%	--	3.3E-11
91-20-3	Naphthalene	0.24 J	Max	28200	--	no	0.045%	--	0.0000085	--
Metals										
7439-96-5	Manganese	1250	Max	89200	--	no	74%	--	0.014	--
								Cumulative Risk Ratio	**0.02**	**7E-09**

(1) Exposure Point Concentration is the maximum detected concentration for all groundwater samples combined.

(2) Calculated screening level for utility workers using the USEPA RSL calculator for outdoor worker, using site-specific and receptor-specific exposure parameters. The calculations and exposure parameters are provided in **Appendix B**.
(3) "yes" indicates that the chemical exerts carcinogenic effects; "no" indicates that the chemical exerts non-carcinogenic effects; and "both" indicates that the chemical exerts both carcinogenic and non-carcinogenic effects
µg/L = micrograms per liter
Max = Maximum detected concentration
J = Analyte detected between MDL and practical quantitation limit (PQL).

FIGURES

Figure 1.1 Fort Monmouth Location
Figure 1.2 Main Post Layout
Figure 1.3 Layout of FTMM-02
Figure 2.1 FTMM-02 PCBS Soil Sample Locations
Figure 2.2 FTMM-02 VOCs and Near Surface Investigation Soil Sample Locations
Figure 2.3 FTMM-02 Surface Water and Sediment Sample Locations
Figure 3.1 FTMM-02 Shallow Groundwater Contours - September 30, 2014
Figure 3.2 FTMM-02 Shallow Groundwater Contours - October 8, 2015
Figure 4.1 Summary of Method to Determine COPCs
Figure 6.1 Evaluation of Risk to Human Receptors
Figure 6.2 Human Health Conceptual Site Model



Legend

Installation Boundary

Site Description:
Fort Monmouth
Main Post & Charles Wood Area
Monmouth County, NJ
Longitude: 74˚ 2' 33.39" W
Latitude: 40˚ 18' 49.33" N
Longitude and Latitude represent the center point of Main Post.

N

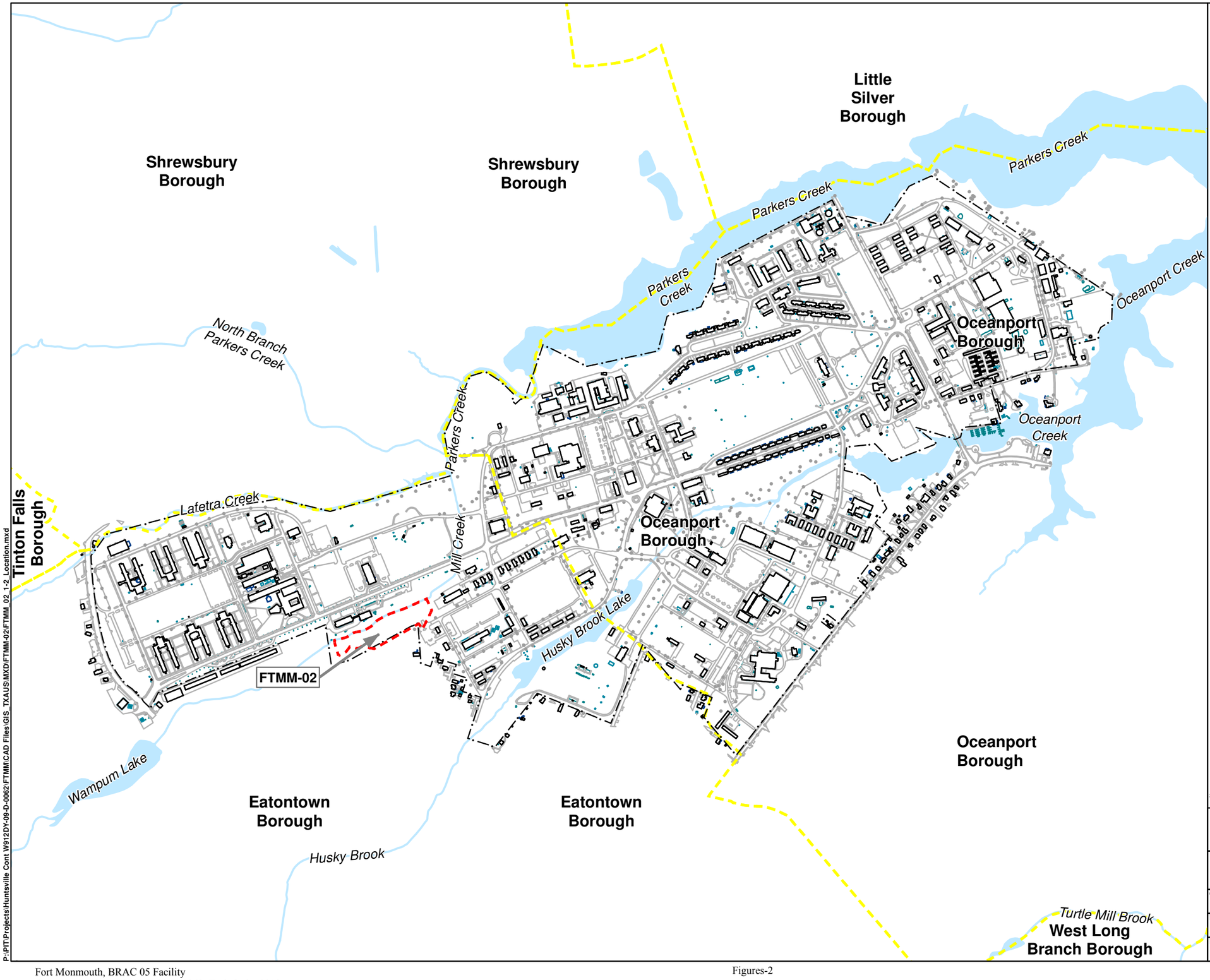
1 inch = 2,500 feet

0 0.5 1 Miles

Source: ESRI online imagery; ESRI Data and Maps, 2011.

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
Fort Monmouth Location	
CREATED BY: TS	REVIEWED BY: BG
DATE: August 2014	FIGURE NUMBER: Figure 1.1
PROJECT NUMBER: 748810.02020	FILE: Figure1-1_Location.mxd

J:\748\748810 Fort Monmouth\GIS\MXD\FTMM-03\Figure1-1_Location.mxd



LEGEND:

- FTMM-2 Landfill Revised Boundary (2015)
- Installation Boundary
- Municipal Boundary
- Surface Water Feature

N

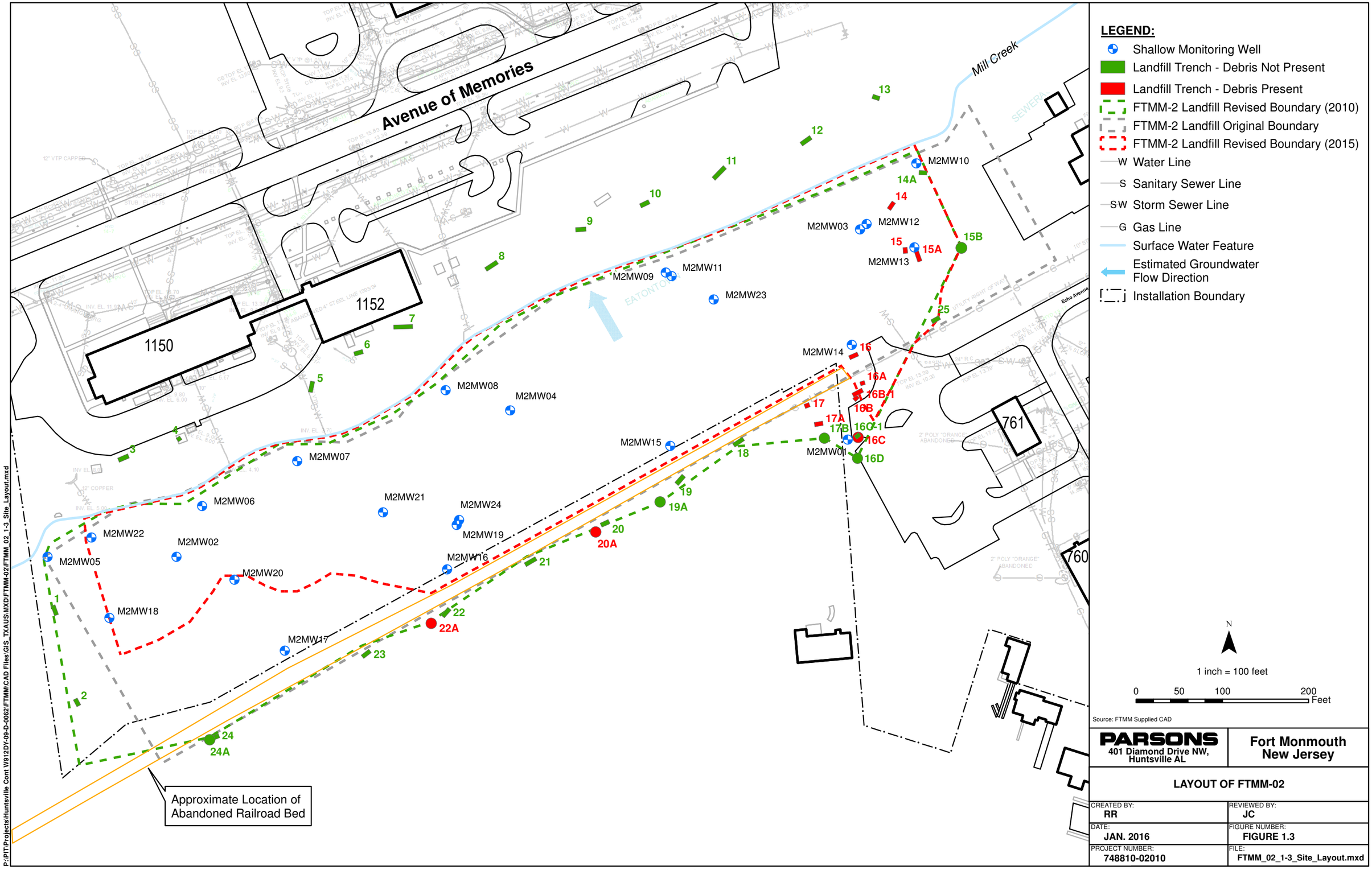
1 inch = 1,000 feet

0 500 1,000 2,000 Feet

Source: FTMM Supplied CAD; ESRI Data and Maps 2011; USGS NHD.

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
MAIN POST LAYOUT	
CREATED BY: RR	REVIEWED BY: RF
DATE: JUL. 2015	FIGURE NUMBER: FIGURE 1.2
PROJECT NUMBER: 748810-02010	FILE: FTMM_02_1-2_Location.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS_TXAUS.MXD\FTMM-02\FTMM_02_1-2_Location.mxd



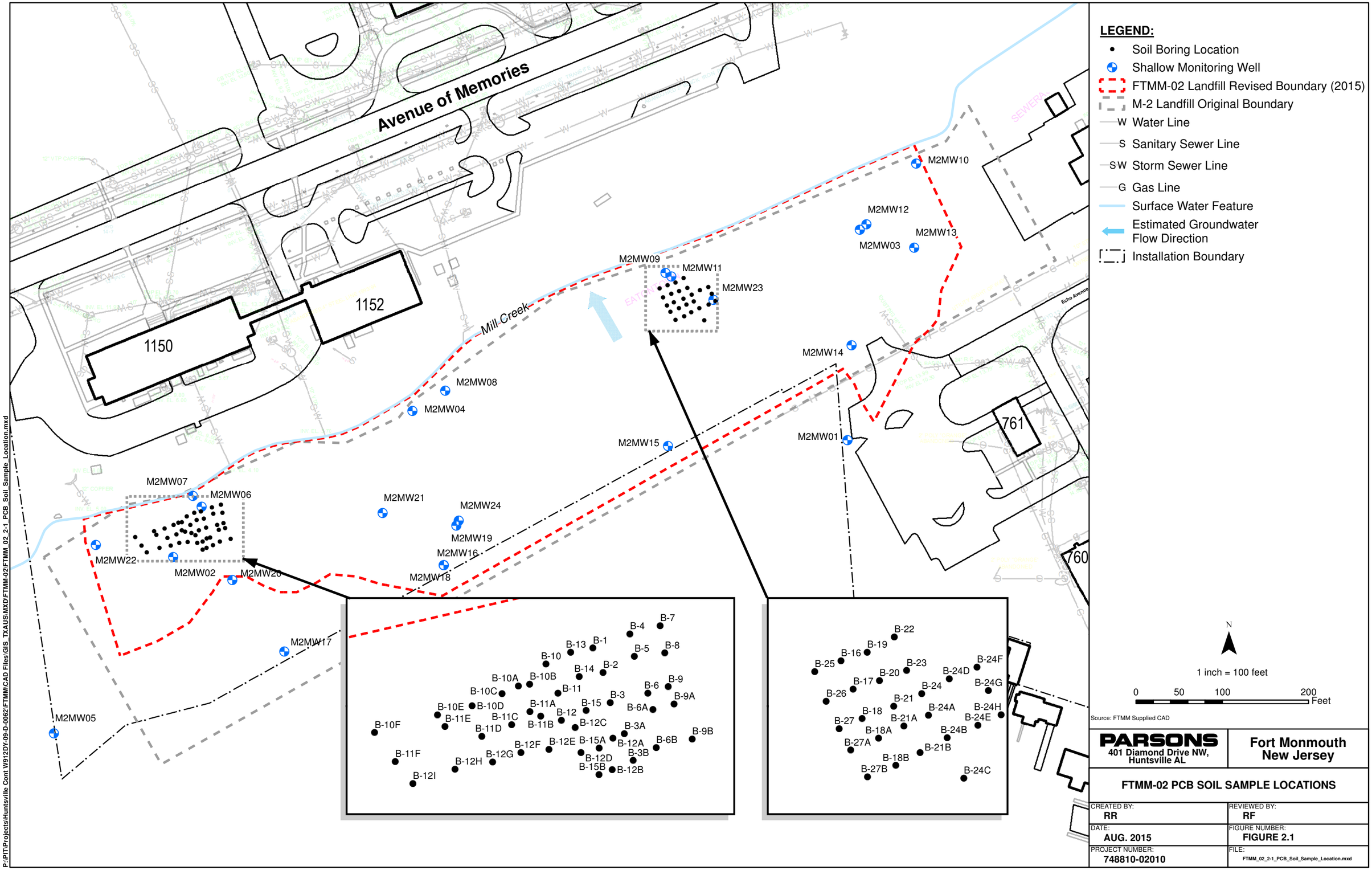
LEGEND:

- Shallow Monitoring Well
- Landfill Trench - Debris Not Present
- Landfill Trench - Debris Present
- FTMM-2 Landfill Revised Boundary (2010)
- FTMM-2 Landfill Original Boundary
- FTMM-2 Landfill Revised Boundary (2015)
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Surface Water Feature
- Estimated Groundwater Flow Direction
- Installation Boundary

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
LAYOUT OF FTMM-02	
CREATED BY: RR	REVIEWED BY: JC
DATE: JAN. 2016	FIGURE NUMBER: FIGURE 1.3
PROJECT NUMBER: 748810-02010	FILE: FTMM_02_1-3_Site_Layout.mxd

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LEGEND:

- Soil Boring Location
- Shallow Monitoring Well
- FTMM-02 Landfill Revised Boundary (2015)
- M-2 Landfill Original Boundary
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Surface Water Feature
- Estimated Groundwater Flow Direction
- Installation Boundary

N

1 inch = 100 feet

0 50 100 200 Feet

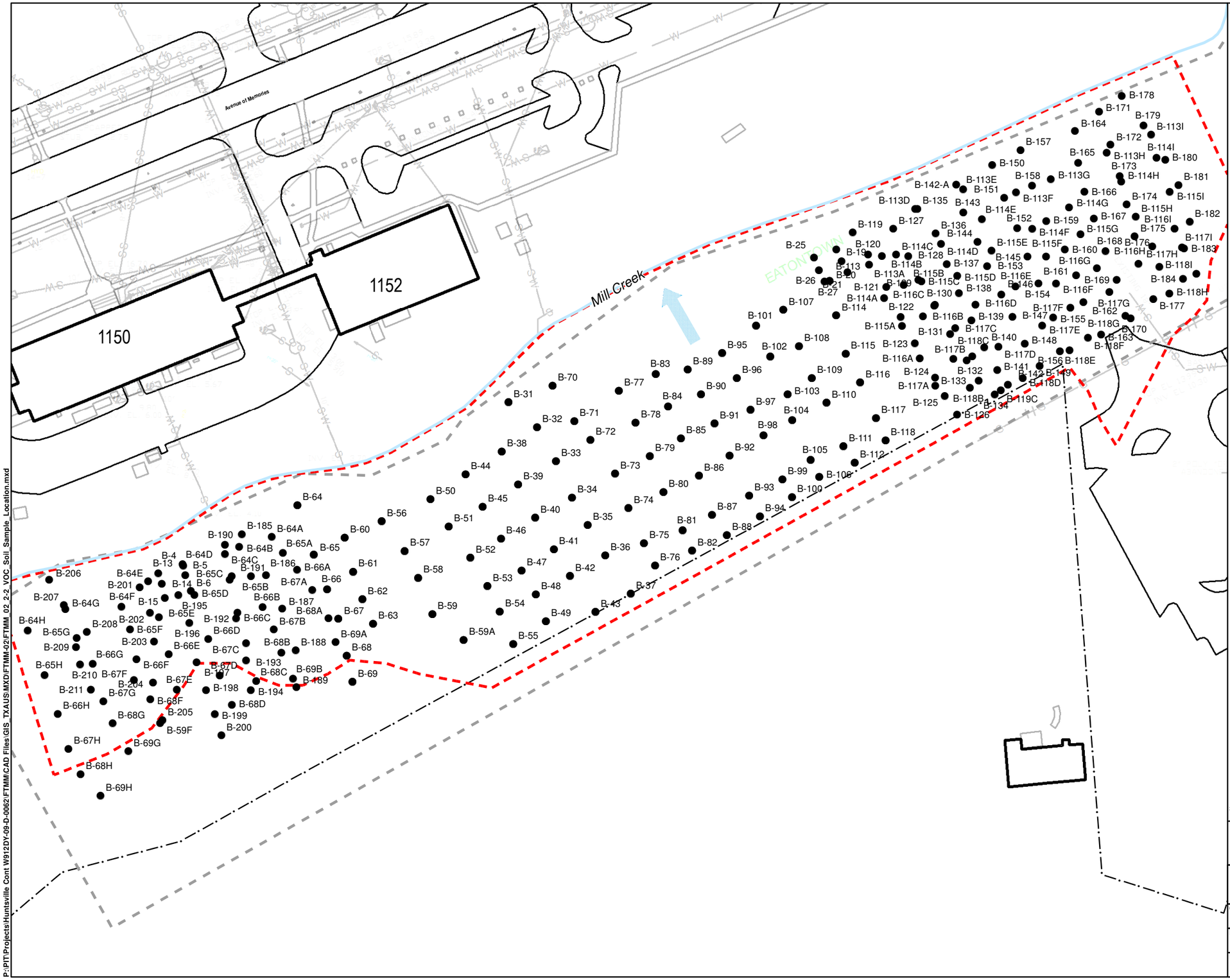
Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**

FTMM-02 PCB SOIL SAMPLE LOCATIONS

CREATED BY: RR	REVIEWED BY: RF
DATE: AUG. 2015	FIGURE NUMBER: FIGURE 2.1
PROJECT NUMBER: 748810-02010	FILE: FTMM_02_2-1_PCB_Soil_Sample_Location.mxd

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LEGEND:

- Soil Boring Location
- FTMM-2 Landfill Revised Boundary (2015)
- FTMM-2 Landfill Original Boundary
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Surface Water Feature
- Estimated Groundwater Flow Direction
- Installation Boundary

N

1 inch = 80 feet

0 40 80 160 Feet

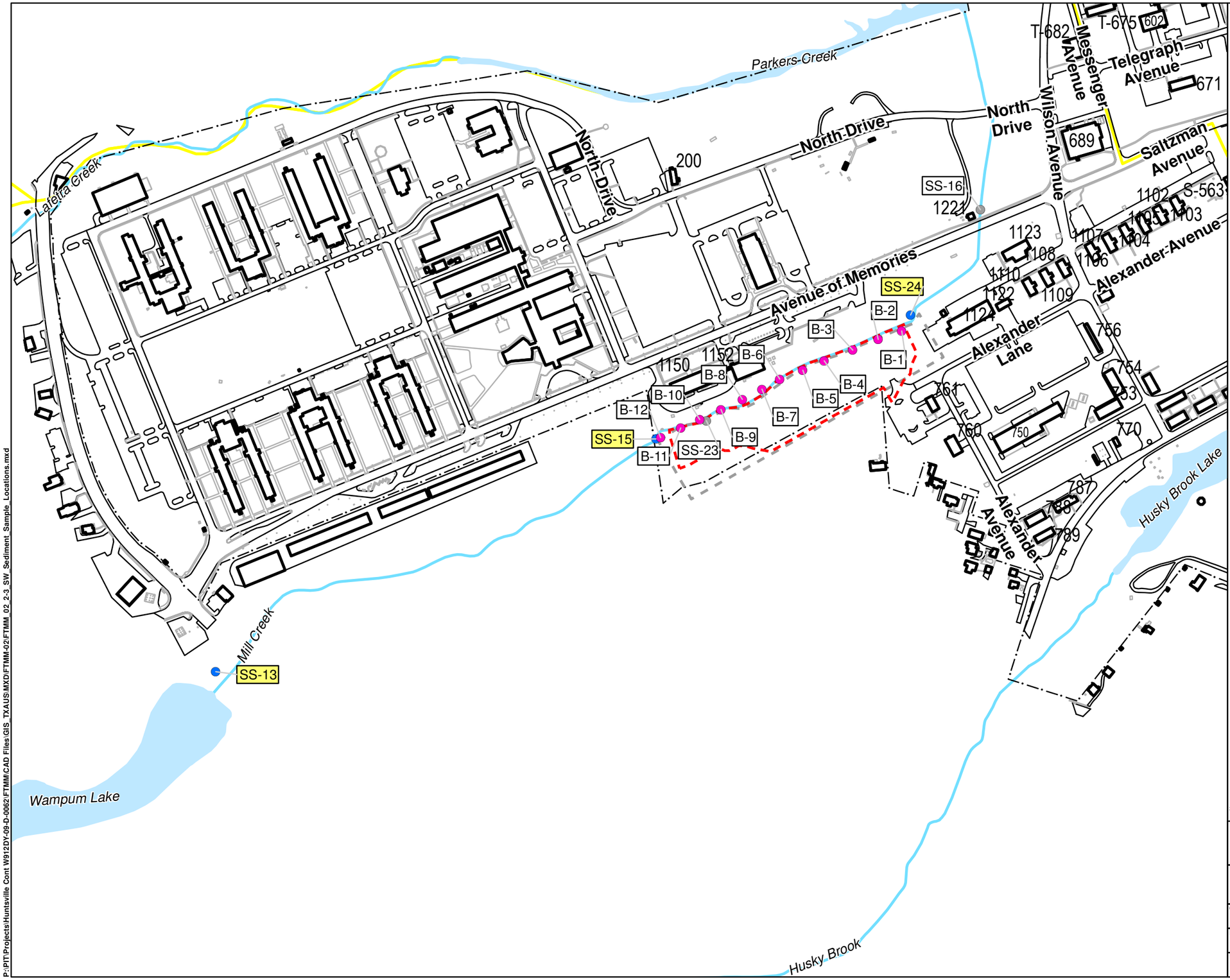
Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**

FTMM-02 VOCS AND NEAR SURFACE INVESTIGATION SOIL SAMPLE LOCATIONS

CREATED BY: RR	REVIEWED BY: RF
DATE: JAN. 2016	FIGURE NUMBER: FIGURE 2.2
PROJECT NUMBER: 748810.02010	FILE: FTMM_02_2-2_VOC_Soil_Sample_Location.mxd

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LEGEND:

- SS-15 — Active Surface Water Sample Location Associated with FTMM-02
- SS-13 — Discontinued Surface Water Sample Location Associated with FTMM-02
- B-1 — Sediment Sample Location Associated with FTMM-02
- FTMM-2 Landfill Revised Boundary (2015)
- FTMM-02 Original Landfill Boundary
- Municipal Boundary
- Installation Boundary

N

1 inch = 400 feet

0 200 400 800 Feet

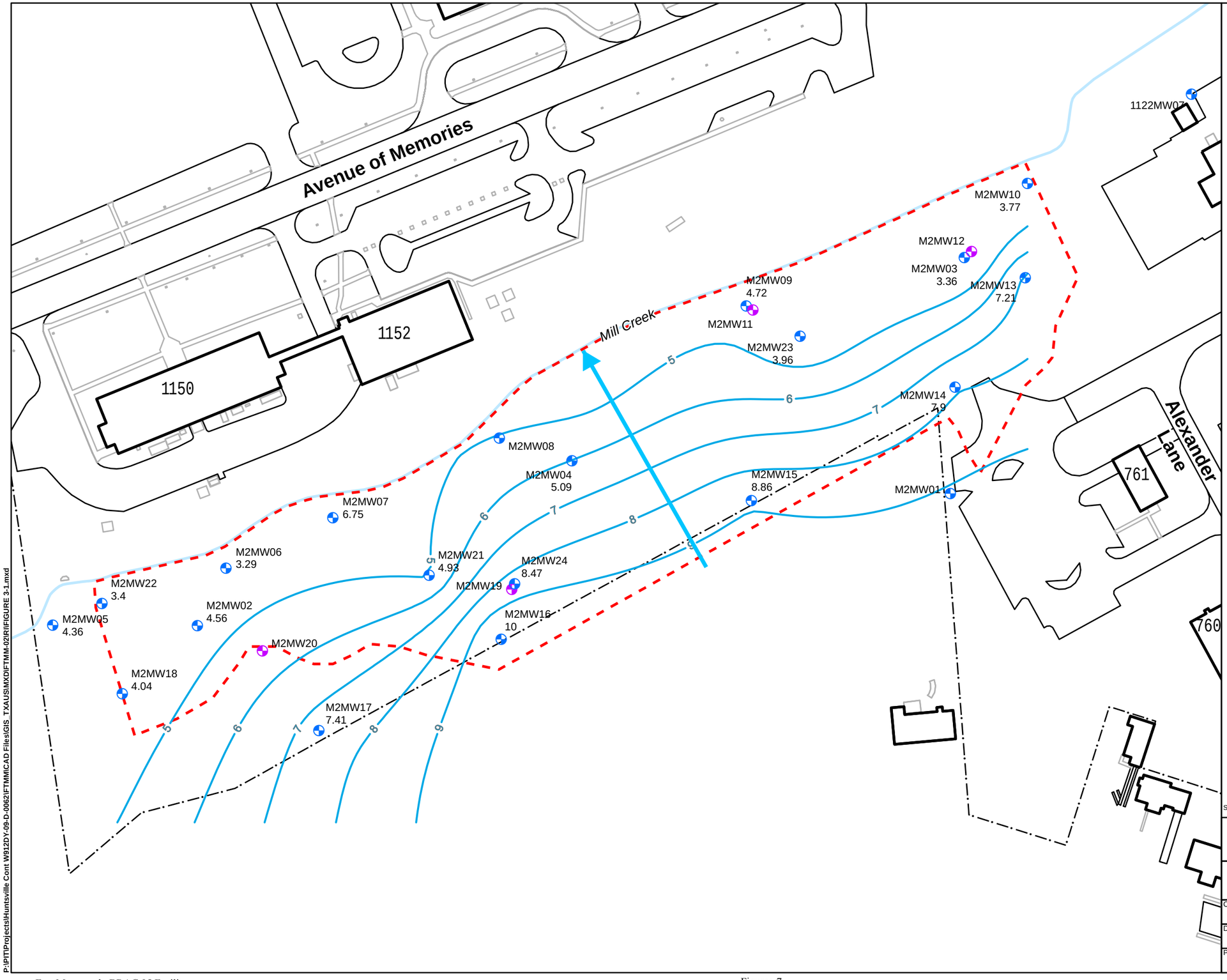
Source: FTMM Supplied CAD, 2013.

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey

FTMM-02 SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS

CREATED BY:	REVIEWED BY:
RR	RF
DATE: SEP. 2015	FIGURE NUMBER: FIGURE 2.3
PROJECT NUMBER: 748810-02010	FILE: FTMM_02_2-3_SW_Sediment_Sample_Locations.mxd

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LEGEND:

- Shallow Monitoring Well
- Deep Monitoring Well
- Surface Water Feature
- Installation Boundary
- FTMM-2 Landfill Revised Boundary (2015)
- Groundwater Elevation Contour
- Inferred Groundwater Flow Direction

NOTE:

Groundwater elevations in monitoring wells M2MW06, M2MW07, and M2MW18 were considered anomalous compared to the fluid levels at neighboring wells.

N

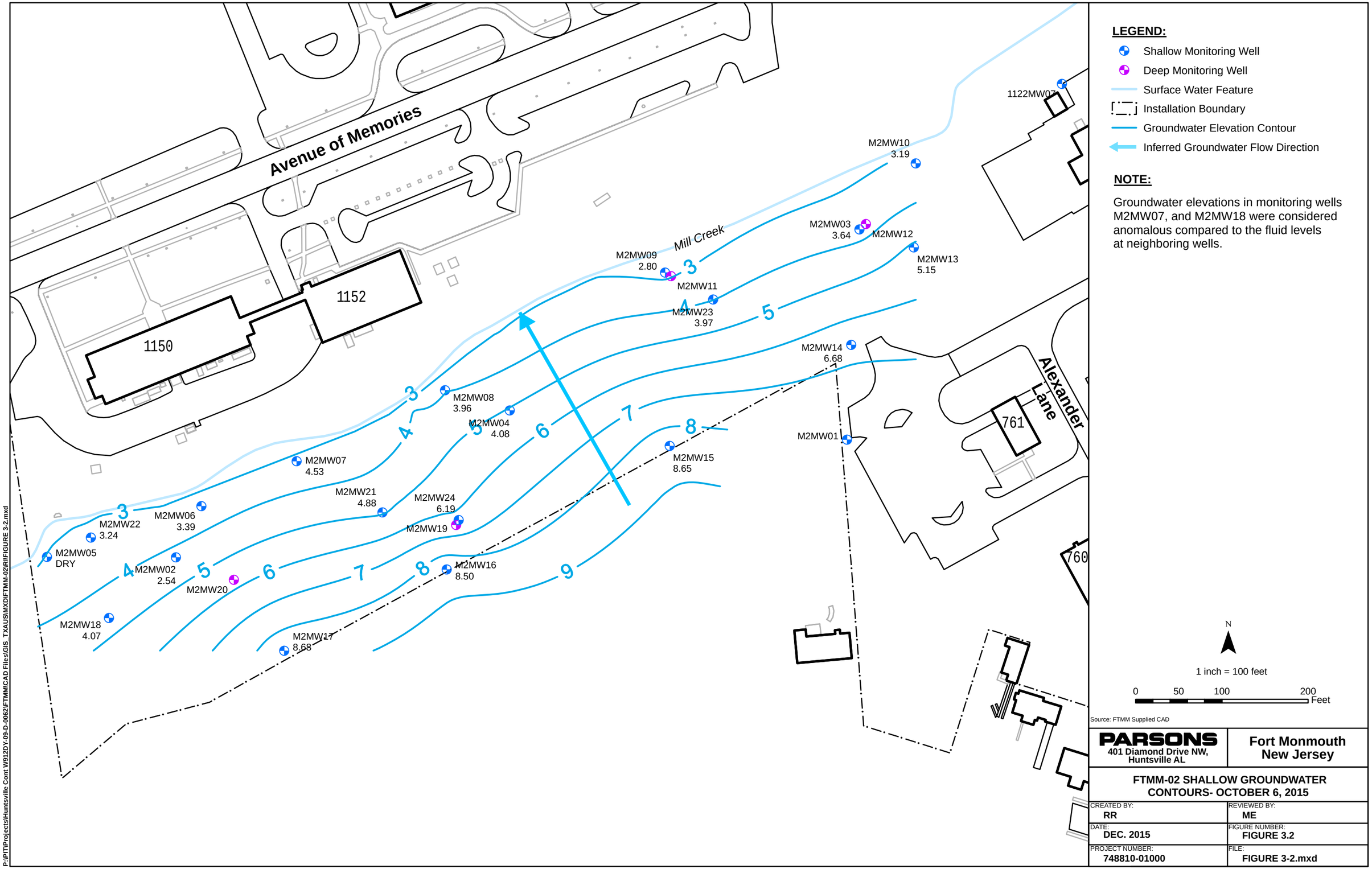
1 inch = 100 feet

0 50 100 200 Feet

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
FTMM-02 SHALLOW GROUNDWATER CONTOURS- SEPTEMBER 30, 2014	
CREATED BY: RR	REVIEWED BY: ME
DATE: DEC. 2015	FIGURE NUMBER: FIGURE 3.1
PROJECT NUMBER: 748810-01000	FILE: FIGURE 3-1.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS_TXAUS\MXD\FTMM-02RI\FIGURE 3-1.mxd



LEGEND:

- Shallow Monitoring Well
- Deep Monitoring Well
- Surface Water Feature
- Installation Boundary
- Groundwater Elevation Contour
- Inferred Groundwater Flow Direction

NOTE:

Groundwater elevations in monitoring wells M2MW07, and M2MW18 were considered anomalous compared to the fluid levels at neighboring wells.

N

1 inch = 100 feet

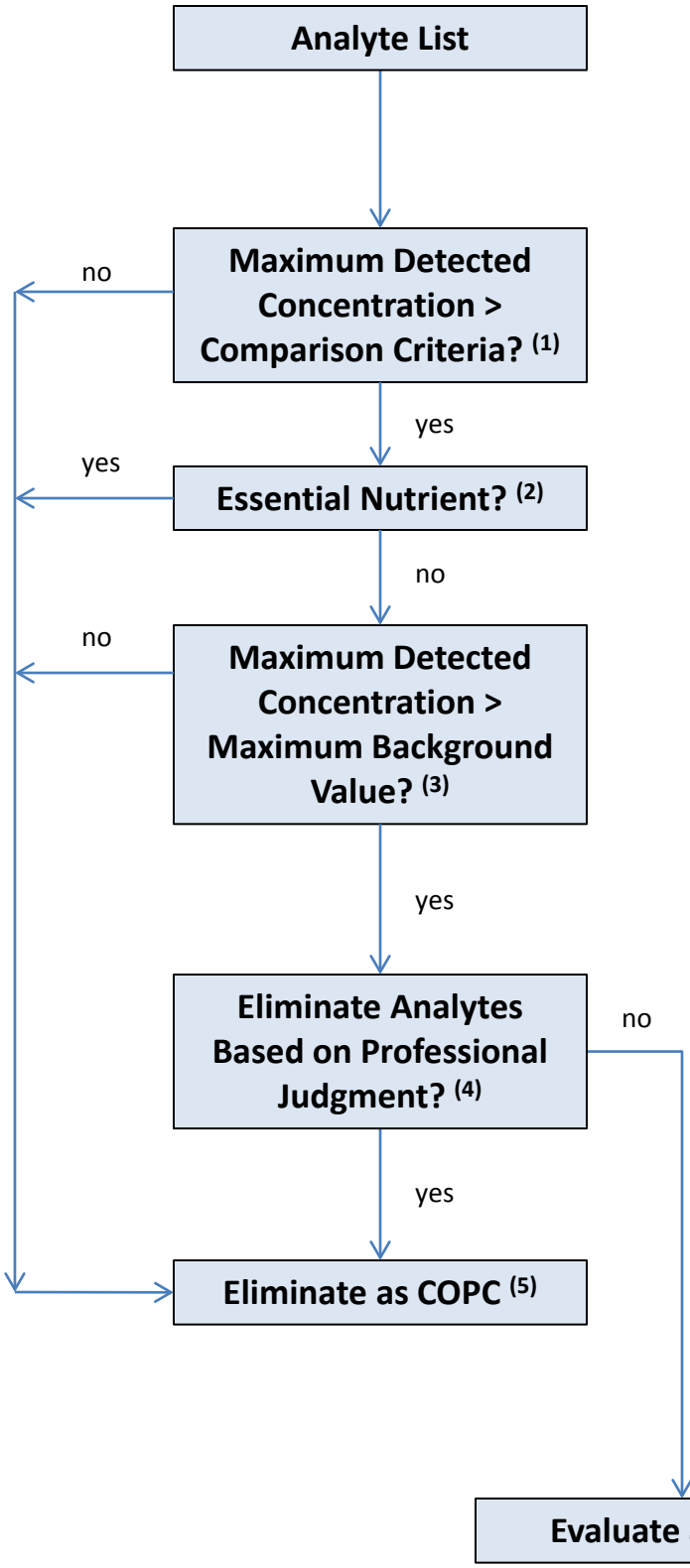
0 50 100 200 Feet

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**
FTMM-02 SHALLOW GROUNDWATER CONTOURS- OCTOBER 6, 2015	
CREATED BY: **RR**	REVIEWED BY: **ME**
DATE: **DEC. 2015**	FIGURE NUMBER: **FIGURE 3.2**
PROJECT NUMBER: **748810-01000**	FILE: **FIGURE 3-2.mxd**

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS_TXAUS\MXD\FTMM-02RI\FIGURE 3-2.mxd

FIGURE 4.1
Summary of Method to Determine COPCs



(1) Preliminary Comparison Criteria are:

a. Soil: USEPA Residential Regional Screening Levels (RSLs) (Target Risk [TR] = 1 X 10^{-6} and Target Hazard Quotient [THQ] = 0.1)
b. Groundwater: USEPA Tapwater RSLs (TR = 1 X 10^{-6} and THQ = 0.1)
c. Surface Water: A hierarchy of USEPA human health criteria was used in the priority shown below.
    1. National Recommended Water Quality Criteria (NRWQC) (organism only),
    2. NRWQC (water + organism),
    3. Tapwater RSLs, and
    4. Maximum Contaminant Levels (MCLs)
d. Sediment: USEPA Residential RSLs for Soil (TR = 1 X 10^{-6} and THQ = 0.1)

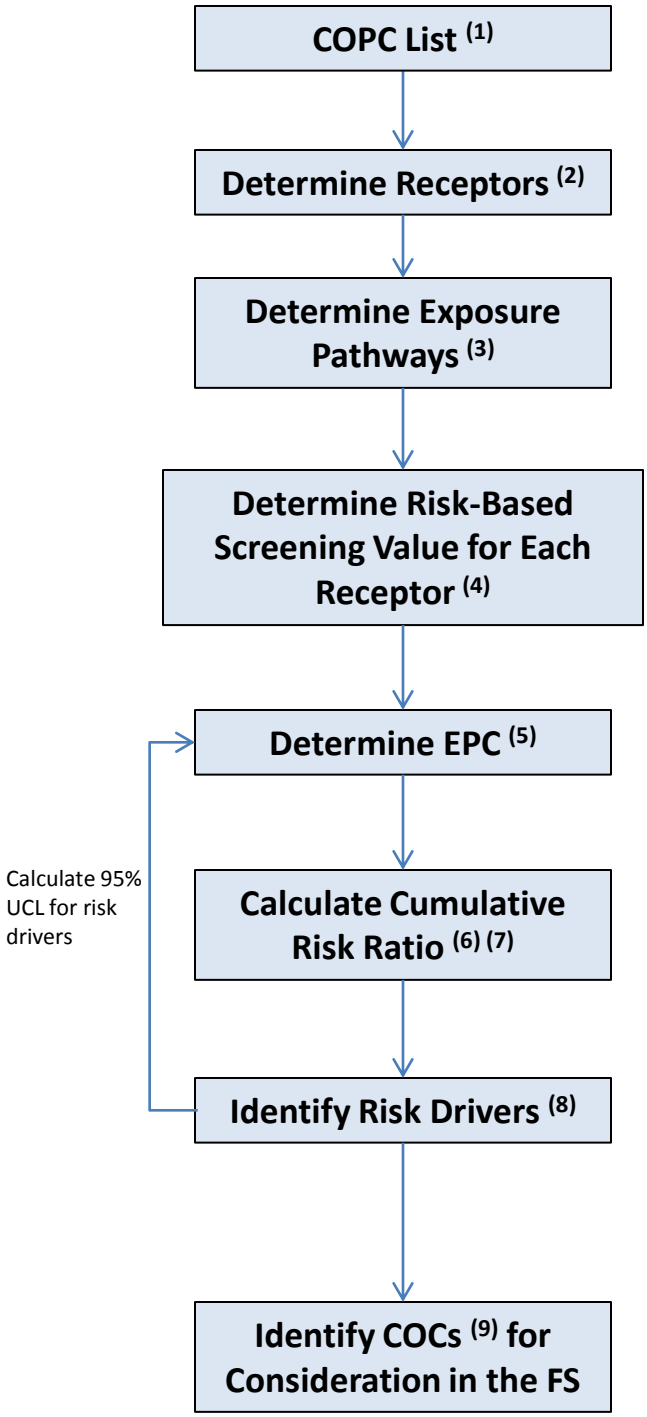
(2) Essential nutrients : calcium, iron, magnesium, sodium, and potassium

(3) Maximum background concentrations for metals were used because background data set was small (10 data points) and did not follow a parametric distribution. Weston (1995) concluded that the maximum background was approximately equivalent to a 95% Upper Tolerance Limit (UTL) for metals.

(4) Assessment (primarily for groundwater and surface water) as to whether exceedances of comparison criteria are representative of site-related contamination or are due to turbidity, upstream/upgradient sources, laboratory contamination, natural background conditions, etc.

(5) Constituent of potential concern

Figure 6.1
Evaluation of Risk to Human Receptors



(1) COPCs determined from comparison to screening criteria (see previous flow chart)

(2) Receptors include current and future outdoor workers, utility workers, and future recreational users

(3) Soil: incidental ingestion, dermal contact and inhalation of particulates and volatiles
Groundwater: ingestion as drinking water and dermal contact
Surface water/sediment: incidental ingestion and dermal contact

(4) The screening values used in the risk ratio will be:
- Soil: USEPA Industrial worker regional screening level (RSL) (Target Risk (TR) = 1 X 10^{-6} and Target Hazard Quotient (THQ) = 1.0); site-specific recreational user screening level calculated for each analyte
- Groundwater: USEPA tap water RSL (TR = 1 X 10^{-6} and THQ=1.0) (which includes outdoor workers and recreational users)
- Surface water: USEPA National Recommended Water Quality Criteria, Human Health Criteria, Organism Only
- Sediment: USEPA Industrial worker RSL (TR = 1 X 10^{-6} and THQ=1.0)

(5) Exposure Point Concentration, initially the maximum detected concentration

(6) Risk ratio calculated for carcinogens as:
Cumulative risk = Σ(Target Risk) x (EPC/Screening level)
For non-carcinogens as:
HI = Σ(Target Hazard Index) x (EPC/Screening level)

(7) Lead is evaluated based on the potential for exposure to increase blood lead levels. Therefore, lead is not included in the cumulative non-carcinogenic and carcinogenic risk estimates. The risk ratio for lead is calculated as: lead risk = (EPC/Screening level)

(8) Risk drivers are the individual analytes that contribute more than 25% to the cumulative risk ratio. For risk drivers a 95% Upper Confidence Limit (UCL) will be calculated.

(9) Constituent of Concern

Figure 6.2
Human Health Conceptual Site Model
Site FTMM-02
Fort Monmouth, New Jersey

Potential Medium of Concern	Potential Route of Exposure	Potentially Exposed Population	Pathway Completeness and Assumptions
Soil	• Incidental ingestion of soil • Inhalation of volatiles and particulates from soil • Dermal contact with soil	• Current outdoor worker • Future outdoor worker • Future indoor worker • Future recreational user • Future utility worker	• FTMM-02 was used for the general disposal of domestic and industrial wastes and was in operation between 1964 and 1968. FTMM-02 is approximately 6.5 acres in size and is currently vacant and covered with vegetation (i.e. grass, trees, and brush). The FTMM Reuse and Redevelopment Plan indicates that the anticipated future land use at FTMM-02 is passive open space (EDAW, Inc., 2008). • There are potentially complete exposure pathways associated with the current outdoor worker via incidental ingestion, inhalation of volatiles and particulates, and dermal contact. An exposure frequency of 225 days per year and an exposure duration of 25 years are assumed for this scenario. Thus, it is a very conservative evaluation for a potential current outdoor worker who would have much less exposure (*e.g.*, current worker that visits the site to perform mowing and landscaping activities). • There are potentially complete exposure pathways associated with the future outdoor worker via incidental ingestion, inhalation of volatiles and particulates, and dermal contact. This pathway is not included in the risk ratio analysis because it is assumed to be conservatively evaluated under the current outdoor worker scenario (based on the exposure frequency and exposure duration). • There are potentially complete exposure pathways associated with the future indoor worker via incidental ingestion, inhalation of volatiles and particulates, and dermal contact if commercial buildings were constructed on the site. This pathway is not quantitatively

Figure 6.2
Human Health Conceptual Site Model (continued)
Site FTMM-02
Fort Monmouth, New Jersey

Potential Medium of Concern	Potential Route of Exposure	Potentially Exposed Population	Pathway Completeness and Assumptions
			evaluated in the risk ratio analysis because it is assumed to be conservatively evaluated under the current outdoor worker scenario (future indoor workers would have much less exposure to soil). • Future recreational users have a complete exposure pathway to soil via incidental ingestion, inhalation of volatiles and particulates, and dermal contact, in part as an adolescent (aged 6≤16) and in part as an adult (aged 16-30 for noncarcinogens). An exposure frequency of 50 days per year and an exposure duration of 24 years are assumed for this scenario. This potentially exposed population also includes persons who may be trespassing at the site, as they are expected to be on-site no more frequently than recreational users. • Future utility workers have a complete exposure pathway to soil via incidental ingestion, inhalation of volatiles and particulates, and dermal contact. An exposure frequency of 30 days per year for a one year project duration are assumed for this scenario. • The site is not residential and is not planned for residential use. Therefore, residential exposure pathways are incomplete.

Figure 6.2
Human Health Conceptual Site Model (continued)
Site FTMM-02
Fort Monmouth, New Jersey

Potential Medium of Concern	Potential Route of Exposure	Potentially Exposed Population	Pathway Completeness and Assumptions
Surface Water/ Sediment	• Incidental ingestion of surface water/sediment • Inhalation of volatiles from surface water/sediment • Dermal contact with surface water/sediment	• Current outdoor worker • Future outdoor worker • Future recreational user • Future utility worker	• Surface water runoff from the western part of the MP flows into Lafetra Creek to the north or into Mill Creek to the south. Both Mill Creek and Lafetra Creek originate off-post. Surface water is not used as a potable water source. • No COPCs were observed in surface water or sediment. Therefore, the surface water and sediment exposure pathways are considered incomplete.

Figure 6.2
Human Health Conceptual Site Model (continued)
Site FTMM-02
Fort Monmouth, New Jersey

Potential Medium of Concern	Potential Route of Exposure	Potentially Exposed Population	Pathway Completeness and Assumptions
Groundwater	• Incidental Ingestion of groundwater • Inhalation of volatiles in groundwater • Dermal contact with groundwater	• Future utility worker	• The groundwater onsite is not used as a potable water source. There are no supply wells present on-site and none are planned. All potable water is provided through municipal water supplies. The site is not residential and is not planned for residential use. However, exposure to groundwater can occur through incidental contact (ingestion and dermal contact) and through inhalation of volatile COPCs present in groundwater. • Future utility workers have a complete exposure pathway to groundwater via incidental ingestion, inhalation of volatiles, or dermal contact. This calculation assumes an exposure frequency of 30 days per year, and an exposure duration of one year.

APPENDICES

Appendix A Key Historical Reports and Background Information (also included electronically on CD)

Appendix B Utility Worker and Recreational User Screening Level Equations and Calculations; ProUCL Output (included electronically only on CD)

Appendix C Cost Estimate

APPENDIX A
KEY HISTORICAL REPORTS AND BACKGROUND INFORMATION

(Appendix A is also included separately on the CD of this report)

1. Final Site Investigation - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December 1995.
2. Remedial Investigation Report & Remedial Action Work Plan M-2 Landfill. January 2001.
3. Remedial Investigation Report for Near-Surface Soils, M-2 Landfill U.S. Army Installation Fort Monmouth, Fort Monmouth, New Jersey. Directorate of Public Works, February 23, 2004.
4. Table 5 Cover Material Summary for the Landfill Delineation Project
5. Parsons 2015 landfill delineation files: historic aerial photograph analysis, trench logs
6. Proposed Classification Exception Area Desigantion, M-2 Landfill, January 2001
7. M-2 Landfill (FTMM-02) Classification Exception Area Report, April 2011
8. Remedial Action Progress Report, 2nd Quarter 2000 through 3rd Quarter 2002, M-2 Landfill Site, April 2004
9. M-2 Landfill Site (FTMM-02) Remedial Action Progress Report (4th Quarter 2006 through 4th Quarter 2008), September 2010
10. M-2 Landfill (FTMM-02) Remedial Action Progress Report (1st Quarter 2009 through 3rd Quarter 2010), March 2012
11. Final Baseline Ecological Evaluation, Fort Monmouth Main Post & Charles Wood Area. May 2012
12. Background Metals Evaluation, May 2011
13. Regional Geologic Cross-Sections
14. Land Use Plan 2008
15. NJDEP Comments on the Final Baseline Groundwater Report (August 2013), July 3, 2014
16. Historic Groundwater Sampling Results

APPENDIX B

UTILITY WORKER AND RECREATIONAL USER SCREENING LEVEL EQUATIONS AND CALCULATIONS; PROUCL OUTPUT

The equations used to calculate screening values for exposure to soil are shown below.

The following abbreviations are used:

- SL = Screening Level
- nc = noncarcinogenic
- ing = ingestion
- der = dermal
- inh = inhalation
- ca = carcinogenic
- adl = adolescent
- adjust = adjusted

Units definitions:

- mg = milligram
- kg = kilogram
- cm = centimeter
- cm^2 = square centimeter
- cm^3 = cubic centimeter
- m^3 = cubic meter
- m^2 = square meter
- s = second
- g = gram
- L = liter
- µg = microgram

UTILITY WORKER

The utility workers would be exposed to surface soil and subsurface soil (e.g. during trenching activities) through incidental ingestion of soil, dermal contact with soil, and inhalation of volatiles and particulates from soil.

The soil screening levels for the utility worker, in mg/kg, are calculated as:

Noncarcinogenic - adult

Ingestion

$$SL_{nc-ing} = \frac{(THQ)\ (AT_{nc})\,(BW_{adult})}{(EF_{adult})\,(ED_{adult})\left(\frac{1}{RfD_O}\right)\,(IRS_{adult})\ (CF_s)}$$

Dermal

$$SL_{nc-der} = \frac{(THQ)\,(AT_{nc})\,(BW_{adult})}{(EF_{adult})\,(ED_{adult})\left(\frac{1}{(RfD_O)\,(GIABS)}\right)\,(SA_{adult})\,(AF_{adult})\,(ABS_d)\,(CF_s)}$$

Inhalation

$$SL_{nc-inh} = \frac{(THQ)\,(AT_{nc})}{(EF_{adult})\,(ED_{adult})\,(ET)\left(\frac{1}{RfC}\right)\left(\frac{1}{VF_s} + \frac{1}{PEF}\right)}$$

Total

$$SL_{nc-total} = \frac{1}{\left(\frac{1}{SL_{nc-ing}} + \frac{1}{SL_{nc-der}} + \frac{1}{SL_{nc-inh}}\right)}$$

Carcinogenic - adult

Ingestion

$$SL_{ca-ing} = \frac{(TR)\,(AT_c)\,(BW_{adult})}{(EF_{adult})\,(ED_{adult})\,(CSF_o)\,(IRS_{adult})\,(CF_s)}$$

Dermal

$$SL_{ca-der} = \frac{(TR)\,(AT_c)\,(BW_{adult})}{(EF_{adult})\,(ED_{adult})\left(\frac{CSF_O}{GIABS}\right)(SA_{adult})\,(AF_{adult})\,(ABS_d)\,(CF_s)}$$

Inhalation

$$SL_{ca-inh} = \frac{(TR)\,(AT_c)}{(EF_{adult})\,(ED_{adult})\,(ET)\;\;(IUR)\left(\frac{1000\mu g}{mg}\right)\left(\frac{1}{VF_s} + \frac{1}{PEF}\right)}$$

Total

$$SL_{ca-total} = \frac{1}{\left(\frac{1}{SL_{ca-ing}} + \frac{1}{SL_{ca-der}} + \frac{1}{SL_{ca-inh}}\right)}$$

RECREATIONAL USER

The utility workers would be exposed to surface soil through incidental ingestion of soil, dermal contact with soil, and inhalation of volatiles and particulates from soil, in part as an adolescent (aged 6-16) and in part as an adult (aged 16-30).

Non-carcinogenic adolescent

Ingestion

$$SL_{nc-ing} = \frac{(THQ)\,(AT)\,(ED_{adl})\,(BW_{adl})}{(EF)\,(ED)\left(\frac{1}{RfD_O}\right)\,(IR_{adl})\,(CF_s)}$$

Dermal

$$SL_{nc-der} = \frac{(THQ)\,(AT)(ED_{adl})\,(BW_{adl})}{(EF)\,(ED)\left(\frac{1}{RfD_O \times GIABS}\right)\,(SA_{adl})\,(AF_{adl})\,(ABS_d)\,(CF_s)}$$

Inhalation

$$SL_{nc-inh} = \frac{(THQ)\,(AT)\,(ED_{adl})}{(EF)\,(ED_{adl})\,(ET_{adl})\left(\frac{1}{RfC}\right)\left(\frac{1}{VF_s} + \frac{1}{PEF}\right)}$$

Total

$$SL_{nc-total} = \frac{1}{\left(\frac{1}{SL_{nc-ing}} + \frac{1}{SL_{nc-der}} + \frac{1}{SL_{nc-inh}}\right)}$$

Non-carcinogenic adult

Ingestion

$$SL_{nc-ing} = \frac{(THQ)\,(AT)\,(ED_{adult})\,(BW_{adult})}{(EF)\,(ED)\left(\frac{1}{RfD_O}\right)\,(IR_{adult})\,(CF_{soil})}$$

Dermal

$$SL_{nc-der} = \frac{(THQ)\,(AT)\,(ED_{adult})\,(BW_{adult})}{(EF)\,(ED)\left(\frac{1}{RfD_O \times GIABS}\right)\,(SA_{adult})\,(AF_{adult})\,(ABS_d)\,(CF_s)}$$

Inhalation

$$SL_{nc-inh} = \frac{(THQ)\,(AT)\,(ED_{adult})}{(EF)\,(ED_{adult})\,(ET_{adult})\left(\frac{1}{RfC}\right)\left(\frac{1}{VF_s}+\frac{1}{PEF}\right)}$$

Total

$$SL_{nc-total} = \frac{1}{\left(\frac{1}{SL_{nc-ing}}+\frac{1}{SL_{nc-der}}+\frac{1}{SL_{nc-inh}}\right)}$$

Carcinogenic

Ingestion

$$SL_{ca-ing} = \frac{(TR)\,(AT)\,(LT)}{(CfS_O)\left(IFS_{adj}\right)(CF_s)}$$

Where:

$$IFS_{adjust} = \frac{(ED_{adl})\,(EF_{adl})\,(IRS_{adl})}{BW_{adl}} + \frac{(ED_{adult})\,(EF_{adult})\,(IRS_{adult})}{BW_{adult}}$$

Dermal

$$SL_{ca-der} = \frac{(TR)\,(AT)\,(LT)}{\left(\frac{CsF_O}{GIABS}\right)\left(DFS_{adj}\right)(ABS_d)\,(CF_s)}$$

Where:

$$DFS_{adjust} = \frac{(ED_{adl})(\,EF_{adl})\,(SA_{adl})\,(AF_{adl})}{BW_{adl}} + \frac{(ED_{adult})\,(EF_{adult})\,(SA_{adult})\;(AF_{adult})}{BW_{adult}}$$

Inhalation

$$SL_{ca-inh} = \frac{(TR)\,(AT)\,(LT)}{(EF_{rec})\,(ED_{rec})\,(ET_{rec})\left(\frac{1\ day}{24\ hours}\right)(IUR)\left(\frac{1000\mu g}{mg}\right)\left(\frac{1}{VF_s}+\frac{1}{PEF}\right)}$$

Total

$$SL_{ca-total} = \frac{1}{\frac{1}{SL_{ca-ing}} + \frac{1}{SL_{ca-der}} + \frac{1}{SL_{ca-inh}}}$$

Supporting Equations

Particulate Emission Factor, in m^3 air / kg soil

$$PEF = \left({}^{Q}/_{C}\right)\left(\frac{3{,}600\ {}^{seconds}/_{hour}}{(0.036)\ (1-V)\left(\left(\frac{U_m}{U_t}\right)^3\right)[F(x)]}\right)$$

Volatilization Factor, in m^3 air / kg soil

$$VF_s = \left({}^{Q}/_{C}\right)\left(\frac{\left((3.14)\ (D_A)\ (T)\right)^{1/2}\ (CF_{vol})}{\left((2\ )\ (\rho_b)\ \ (D_A)\right)}\right)$$

Where:

$$D_A = \frac{\left(\left(\theta_a^{10/3}\right)\ (D_i)\ \left(H'\right)\right) + \left(\left(\theta_w^{10/3}\right)\ (D_w)\right)}{(n^2)\ \left(\left((\rho_b)\ (K_d)\right) + \ \theta_w + \ \left((\theta_a)\ (H')\right)\right)}$$

Summary of Exposure Assumptions for Soil for each Potential Receptor

Abbreviation	Parameter	Units	Outdoor Worker	Sources	Rationale	Utility Worker	Sources	Rationale	Recreational User	Sources	Rationale
THQ	Target Hazard Quotient	unitless	1	USEPA, 2014b	USEPA RSL Users Guide, Table 1	1	USEPA, 2014b	USEPA RSL Users Guide, Table 1	1	USEPA, 2014b	USEPA RSL Users Guide, Table 1
AT_{nc}	Averaging Time – noncarcinogens	days	9,125	USEPA, 1989	Exhibit 6-9; Period over which exposure is averaged; ED expressed in days (25 years x 365 days)	365	USEPA, 2014c	Source references USEPA, 1989, page 6-23; ED expressed in days (1 year x 365 days)	5,110 (adult) 3,650 (adl)	USEPA, 1989	Exhibit 6-9; Period over which exposure is averaged; ED expressed in days (14 years adult x 365 days or 10 years adl x 365 days)
AT_c	Averaging Time – carcinogens	days	25,550	USEPA, 2014c as "lifetime"	70-year lifetime expressed in days (70 years x 365 days)	25,550	USEPA, 2014c as "lifetime"	70-year lifetime expressed in days (70 years x 365 days)	25,550	USEPA, 2014c as "lifetime"	70-year lifetime expressed in days (70 years x 365 days)
ED	Exposure Duration	years	25	USEPA, 2014c	Source references USEPA, 1991a, Page 15; RME scenario for industrial worker	1	USEPA, 2002	Exhibit 5-1; USEPA, default value for construction workers	14 (adult) 10 (adl)	Professional judgment	Adult: Represents the number of years returning to the same location as an adult, assumes 16 to <30 years of age Adl: Represents the number of years returning to the same location as an adolescent; assumes 6 to <16 years of age
BW	Body Weight	kg	80	USEPA, 2014c	Source references USEPA, 2011, Table 8-3; weighted mean values for adults 21 – 78	80	USEPA, 2014c	Source references USEPA, 2011, Table 8-3; weighted mean values for adults 21 – 78	80 (adult) 44 (adl)	Adult: USEPA, 2014c Adl: USEPA, 2011	Adult: Source references USEPA, 2011, Table 8-3; weighted mean values for adults 21 to 78 years of age Adl: Table 8-3, mean of body weights for 6 to <11 and 11 to <16 years
EF	Exposure Frequency	days/year	225	USEPA, 2014c	Source references USEPA, 1991, page 15, outdoor worker RME scenario	30	Professional judgment	Assumes project of one month duration	50	Professional judgment	Assumes recreational user on site once per week every week of the year, except for 2 weeks vacation
IRS	Soil Ingestion Rate	mg/day	100	USEPA, 2014c	Source references USEPA, 1991, page 15, same as adult resident	330	USEPA, 2014b	Source references USEPA, 2002, Exhibit 5-1, USEPA recommended value for construction worker	50 (adult) 100 (adl)	USEPA, 2011	Adult: Table 5-1, General Population Central Tendency, Adult soil and dust ingestion Adl: Table 5-1, General Population Central Tendency, soil and dust ingestion for 6 to <21 years of age
EV	Event Frequency	events/day	1	USEPA, 2004a	Exhibit 3-5, industrial RME scenario	1	USEPA, 2004a	Exhibit 3-5, industrial RME scenario	1	Professional judgment	Recreational users are expected to be onsite one event per day
FI	Fraction Ingested	unitless	1	USEPA, 1989, page 6-39	Assumes that all of contaminated soil contacted is from the site	1	USEPA, 1989, page 6-39	Assumes that all of contaminated soil contacted is from the site	1	USEPA, 1989, page 6-39	Assumes that all of contaminated soil contacted is from the site
CF_s	Conversion Factor-soil	kg/mg	1E-06	USEPA, 1989	Exhibit 6-14	1E-06	USEPA, 1989	Exhibit 6-14	1E-06	USEPA, 1989	Exhibit 6-14

Summary of Exposure Assumptions for Soil for each Potential Receptor (Continued)

Abbreviation	Parameter	Units	Outdoor Worker	Sources	Rationale	Utility Worker	Sources	Rationale	Recreational User	Sources	Rationale
GIABS	Gastrointestinal Absorption Factor (also, OAF = Oral Absorption Factor)	unitless	Chemical-specific	USEPA, 2015b	Fraction of contaminant absorbed in gastrointestinal tract	Chemical-specific	USEPA, 2015b	Fraction of contaminant absorbed in gastrointestinal tract	Chemical-specific	USEPA, 2015b	Fraction of contaminant absorbed in gastrointestinal tract
SA	Exposed Skin Surface Area	cm^2	3,470	USEPA, 2014c	Source references USEPA, 2011, Table 7-2; weighted average of mean values for head, hands, and forearms (male and female adults); assumes wearing shoes and long pants	3,470	USEPA, 2014c	Source references USEPA, 2011, Table 7-2; weighted average of mean values for head, hands, and forearms (male and female adults); assumes wearing shoes and long pants	3,470 (adult) 2,160 (adl)	USEPA, 2014c; USEPA, 2011	Adult: Source references USEPA, 2011, Table 7-2; weighted average of mean values for head, hands, and forearms (male and female adults); assume wearing shoes and long pants Adl: Table 7-2, weighted average of mean values for head, hands, and arms (mean value for arm times 45% to account for forearm) (Age 6 to <16 years of age); assume wearing shoes and long pants
AF	Adherence Factor	mg/cm^2	0.12 (1)	USEPA, 2014c	Source references USEPA, 2011, Table 7-2, Table 7-20 and Section 7.2.2; arithmetic mean of weighted average of body part-specific (hands, forearms, and face) mean adherence factors for adult commercial/ industrial activities	0.20	USEPA, 2011	Table 7-2, Table 7-20 and Section 7.2.2; arithmetic mean of weighted average of body part-specific (hands, forearms, and face) mean adherence factors for adult utility worker number 1	0.09 (adult) 0.04 (adl) (1)	USEPA, 2011	Adult: Table 7-2, Table 7-20 and Section 7.2.2; arithmetic mean of weighted average of body part-specific (hands, forearms, and face) mean adherence factors for adult Gardener number 1 Adl: Table 7-2, Table 7-4, and Section 7.2.2; arithmetic mean of weighted average of body part-specific (hands, forearms, face, mean adherence factors for child playing outdoor sports
ABS_d	Dermal Absorption Factor	unitless	Chemical-specific	USEPA, 2015b	Fraction of contaminant absorbed dermally; USPEA RSL Summary Table-	Chemical-specific	USEPA, 2015b	Fraction of contaminant absorbed dermally; USPEA RSL Summary Table -	Chemical-specific	USEPA, 2015b	Fraction of contaminant absorbed dermally; USPEA RSL Summary Table -
ET	Exposure Time	hour/day	8	USEPA, 2014c	The work day	8	USEPA, 2014c	The work day	2	Professional judgment	Assumes recreational users on site for two hours each event
VF	Volatilization Factor-soil	m^3/kg	Chemical Specific	USEPA, 2002, 2014b	Calculated using inputs in Table 4 of this document	Chemical Specific	USEPA, 2002, 2014b	Calculated using inputs in Table 4 of this document	Chemical specific	USEPA, 2002, 2014b	Calculated using inputs in Table 4 of this document
PEF	Particulate Emission Factor	m^3/kg	3.23E+09	USEPA, 2002, 2014b	Calculated using inputs in Table 4 of this document	3.23E+09	USEPA, 2002, 2014b	Calculated using inputs in Table 4 of this document	3.23E+09	USEPA, 2002, 2014b	Calculated using inputs in Table 4 of this document

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Summary of Exposure Parameters for VF / PEF

Abbreviation	Parameter	Units	All Receptors	Sources	Rationale
Q/C	Inverse of mean concentration at center of square source area for Philadelphia, Pennsylvania	g/m^2-s per kg/m^3	87.36898	USEPA, 2014b	Source references USEPA, 2002, Exhibit D-2
V	Fraction of vegetative cover	unitless	0.5 (50%)	USEPA, 2014b	Source references USEPA, 2002, Equation 4-5
U_m	Mean annual wind speed	m/s	4.69	USEPA, 2014b	Source references USEPA, 2002, Equation 4-5
U_t	Equivalent threshold value of wind speed at 7m	m/s	11.32	USEPA, 2014b	Source references USEPA, 2002, Equation 4-5
F(x)	Function Dependent on U_m /U_t	unitless	0.194	USEPA, 2014b, Cowherd et. al. 1985	Source references USEPA, 2002, Equation 4-5

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Summary of Exposure Parameters for VF / PEF (Continued)					
Abbreviation	**Parameter**	**Units**	**All Receptors**	**Sources**	**Rationale**
D_A	Apparent diffusivity	cm^2/s	Chemical-specific	USEPA, 2014b	Source references USEPA, 2002, Equation 4-8
C_{sat}	Soil saturation concentration	mg/kg	Chemical-specific	USEPA, 2014b	Source references USEPA, 2002, Equation 4-8
T	Exposure interval	seconds	9.5E+08	USEPA, 2002	USEPA, 2002, Equation 4-8
ρ_b	Dry soil bulk density	g/cm^3	1.5	USEPA, 2014b	Source references USEPA, 2002, Equation 4-8
θ_a	Air-filled Soil Porosity	L_{air}/L_{soil}, calculated as $n - \theta_w$	0.28	USEPA, 2014b	Source references USEPA, 2002, Equation 4-8
n	Total Soil Porosity	L_{pore}/L_{soil}	0.43	USEPA, 2014b	Source references USEPA, 2002, Equation 4-8
θ_w	Water-filled Soil Porosity	L_{water}/L_{soil}	0.15	USEPA, 2014b	Source references USEPA, 2002, Equation 4-8

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Summary of Exposure Parameters for VF / PEF (Continued)					
Abbreviation	**Parameter**	**Units**	**All Receptors**	**Sources**	**Rationale**
ρ_s	Soil particle density	g/cm^3	2.65	USEPA, 2014b	Source references USEPA, 2002, Equation 4-8
D_i	Diffusivity in Air	cm^2/second	Chemical-specific	USEPA, 2015c	--
H'	Henry's law constant	Dimensionless	Chemical-specific	USEPA, 2015c	--
D_w	Diffusivity in Water	cm^2/second	Chemical-specific	USEPA, 2015c	--
K_d	Soil-water Partition Coefficient	L/kg	Chemical-specific	USEPA, 2015c	Calculated as K_{OC} X f_{OC}
K_{OC}	Soil organic carbon-water Partition Coefficient	L/kg	Chemical-specific	USEPA, 2015c	--
f_{OC}	Organic Carbon Content of Soil	g/g	0.006 (0.006%)	USEPA, 2014b	Source references USEPA, 2002, Equation 5-14
S	Water Solubility	mg/L	Chemical-specific	USEPA, 2015c	--

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Summary of Exposure Parameters for Groundwater or Surface Water

Abbreviation	Parameter	Units	Outdoor Worker	Sources	Rationale	Utility Worker	Sources	Rational	Recreational User	Sources	Rationale
IRW	Groundwater or Surface Water Ingestion	L/day	0.02	USEPA, 2014d	Section 4.5; During wading activities, water ingestion of 10 ml/hour for adults, converted to L/day assuming the outdoor worker is in contact with surface water for 2 hours per day	0.02	USEPA, 2014d	Section 4.5; During wading activities, water ingestion of 10 ml/hour for adults, converted to L/day assuming the utility worker is in contact with groundwater in a trench for 2 hours per day	0.02 (adult) 0.02(adl)	USEPA, 2014d	Section 4-5; During wading activities, water ingestion of 10 ml/hour for adolescents and adults, converted to L/day assuming the recreational user is in contact with surface water for 2 hours per day
K_p	Permeability Constant	cm/hour	Chemical-specific	USEPA, 2015c	Dermal permeability coefficient of compound in water	Chemical-specific	USEPA, 2015c	Dermal permeability coefficient of compound in water	Chemical-specific	USEPA, 2015c	Dermal permeability coefficient of compound in water
SA	Skin Surface Area	cm^2	4,835	USEPA, 2011	Table 7-2; weighted average of mean values for hands, feet, and lower legs (mean value for legs times 40% to account for lower leg) (male and female, 21+years)	4,840	USEPA, 2011	Table 7-2; weighted average of mean values for hands, feet, and lower legs (mean value for legs times 40% to account for lower leg) (male and female, 21+years)	4,835 (adult) 3093 (adl)	USEPA, 2011	Adult: Table 7-2; weighted average of mean values for hands, feet, and lower legs (mean value for legs times 40% to account for lower leg) (male and female, 21+years). Adl: Table 7-2; weighted average of mean values for hands, feet, and lower legs (mean value for legs times 40% to account for lower leg) (6 to <16 years of age)
VF_{air}	Volatilization Factor	L/m^3	0.5	USEPA, 2014b	Source references USEPA, 1991b, page 20	0.5	USEPA, 2014b	Source references USEPA, 1991b, page 20	0.5	USEPA, 2014b	Source references USEPA, 1991b, page 20
EV	Event Frequency	events/day	1	Professional judgment	Assumes an outdoor worker may come into contact with surface water during routine maintenance activities, for one event per day.	1	USEPA, 2002	Exhibit 1-2. Assumes a worker may come into contact with groundwater during excavation or trenching activities, for one event per day.	1	Professional judgment	Assumes a recreational user may come into contact with surface water during wading activities, for one event per day.
ET	Exposure time as a fraction of the day spent at the site	unitless	0.083 (2 hours/day)	Professional judgment	Assumes an outdoor worker may come into contact with surface water during work activities, for one event per day, 2 hours per event.	0.083 (2 hours/day)	Professional judgment	Assumes an utility worker may come into contact with groundwater during work activities, for one event per day, 2 hours per event.	0.083 (2 hours/day)	Professional judgment	Assumes a recreational user may come into contact with surface water during wading activities, for one event per day, 2 hours per event.

Summary of Exposure Parameters for Groundwater or Surface Water (Continued)

Abbreviation	Parameter	Units	Outdoor Worker	Sources	Rationale	Utility Worker	Sources	Rational	Recreational User	Sources	Rationale
t_{event}	Event Duration	hours/event	2	Professional judgment	Assumes an outdoor worker may come into contact with surface water during work activities, for one event per day, 2 hours per event.	2	Professional judgment	Assumes an utility worker may come into contact with groundwater during work activities, for one event per day, 2 hours per event.	2	Professional judgment	Assumes a recreational user may come into contact with surface water during wading activities, for one event per day, 2 hours per event.
EF	Exposure Frequency	days/year	225	USEPA, 2014c	Source references USEPA, 1991aa, page 15, outdoor worker RME scenario	30	Professional judgment	Assumes project of one month duration	50	Professional judgment	Assumes recreational user on site once per week every week of the year, except for 2 weeks vacation
ED	Exposure Duration	year	25	USEPA, 2014c	Source references USEPA, 1991a, Page 15; RME scenario for industrial worker	1	USEPA, 2002	Exhibit 5-1; USEPA, default value for construction workers	14 (adult) 10 (adl)	Professional judgment	Adult: Represents the number of years returning to the same location as an adult, age 16 to <30 years of age Adl: Represents the number of years returning to the same location as an adolescent; assumes adolescent recreational user 6 to <16 years of age
ED	Exposure Duration-for inhalation	year	--	--	--	--	--	--	23	Professional judgment	Combined 10 years as adolescent and 14 years as adult
BW	Body Weight	kg	80	USEPA, 2014c	Source references USEPA, 2011, Table 8-3; weighted mean values for adults 21 – 78	80	USEPA, 2014c	Source references USEPA, 2011, Table 8-3; weighted mean values for adults 21 – 78	80 (adult) 44 (adl)	USEPA, 2014c, USEPA, 2011	Adult: Source references USEPA, 2011, Table 8-3; weighted mean values for adults 21 – 78 Adl: Table 8-3, weighted mean value for adolescent age 6 to <16 years of age
AT_{nc}	Averaging Time – noncarcinogens	days	9,125	USEPA, 1989	Exhibit 6-9; Period over which exposure is averaged; ED expressed in days (25 years x 365 days)	365	USEPA, 2014c	Source references USEPA, 1989, page 6-23; ED expressed in days (1 year x 365 days)	5,110 (adult) 3,650 (adl)	USEPA, 1989	Exhibit 6-9; Period over which exposure is averaged; ED expressed in days (14 years adult x 365 days or 10 years adl x 365 days)
AT_c	Averaging Time – carcinogens	days	25,550	USEPA, 2014c as “lifetime”	70-year lifetime expressed in days (70 years x 365 days)	25,550	USEPA, 2014c as “lifetime”	70-year lifetime expressed in days (70 years x 365 days)	25,550	USEPA, 2014c as “lifetime”	70-year lifetime expressed in days (70 years x 365 days)

Summary of Exposure Parameters for Groundwater or Surface Water (Continued)

Abbreviation	Parameter	Units	Outdoor Worker	Sources	Rationale	Utility Worker	Sources	Rational	Recreational User	Sources	Rationale
FA	Fraction absorbed	unitless	Chemical-specific	USEPA, 2004	Exhibit B-3	Chemical-specific	USEPA, 2004	Exhibit B-3	Chemical-specific	USEPA, 2004	Exhibit B-3
B	Relative contribution of permeability coefficient	unitless	Chemical-specific	USEPA, 2015c	--	Chemical-specific	USEPA, 2015c	--	Chemical-specific	USEPA, 2015c	--
t^*	Time it takes to reach steady state	hours	Chemical-specific	USEPA, 2004	Exhibit B-3	Chemical-specific	USEPA, 2004	Exhibit B-3	Chemical-specific	USEPA, 2004	Exhibit B-3
τ_{event}	Lag Time per Event	hr/event	Chemical-specific	USEPA, 2015c	--	Chemical-specific	USEPA, 2015c	--	Chemical-specific	USEPA, 2015c	--

Site-specific
Outdoor Worker Equation Inputs for Soil
MODIFIED FOR UTILITY WORKER

Variable	Value
TR (target cancer risk) unitless	0.000001
THQ (target hazard quotient) unitless	1
AT_{ow} (averaging time)	365
EF_{ow} (exposure frequency) d/yr	30
ED_{ow} (exposure duration) yr	1
ET_{ow} (exposure time) hr	8
LT (lifetime) yr	70
BW_{ow} (body weight)	80
IR_{ow} (soil ingestion rate) mg/day	330
SA_{ow} (surface area) cm^2/day	3470
AF_{ow} (skin adherence factor) mg/cm^2	0.12
City (Climate Zone) PEF Selection	Philadelphia, P
A_s (acres) PEF Selection	0.5
Q/C_{wp} (g/m^2-s per kg/m^3) PEF Selection	87.36898
PEF (particulate emission factor) m^3/kg	3232997857
A (PEF Dispersion Constant)	14.0111
B (PEF Dispersion Constant)	19.6154
C (PEF Dispersion Constant)	225.3397
V (fraction of vegetative cover) unitless	0.5
U_m (mean annual wind speed) m/s	4.29
U_t (equivalent threshold value)	11.32
F(x) (function dependant on U_m/U_t) unitless	0.0993
City (Climate Zone) VF Selection	Philadelphia, P
A_s (acres) VF Selection	0.5
Q/C_{wp} (g/m^2-s per kg/m^3) VF Selection	87.36898
foc (fraction organic carbon in soil) g/g	0.006

ρ$_b$ (dry soil bulk density) g/cm^3	1.5
ρ$_s$ (soil particle density) g/cm^3	2.65
θ$_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15
T (exposure interval) s	950000000
A (VF Dispersion Constant)	14.0111
B (VF Dispersion Constant)	19.6154
C (VF Dispersion Constant)	225.3397

Output generated 18MAY2015:09:10:02

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR UTILITY WORKER
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
ALAR	1596-84-5	No	No	1.80E-02	U	5.10E-06	U	1.50E-01	U	-		1
Acenaphthene	83-32-9	No	Yes	-		-		6.00E-02	U	-		1
Acenaphthylene	208-96-8	No	Yes	-		-		-		-		1
Acephate	30560-19-1	No	No	8.70E-03	U	-		4.00E-03	U	-		1
Acetaldehyde	75-07-0	No	Yes	-		2.20E-06	U	-		9.00E-03	U	1
Acetochlor	34256-82-1	No	No	-		-		2.00E-02	U	-		1
Acetone	67-64-1	No	Yes	-		-		9.00E-01	U	3.09E+01	U	1
Acetone Cyanohydrin	75-86-5	No	Yes	-		-		-		2.00E-03	U	1
Acetonitrile	75-05-8	No	Yes	-		-		-		6.00E-02	U	1
Acetophenone	98-86-2	No	Yes	-		-		1.00E-01	U	-		1
Acetylaminofluorene, 2-	53-96-3	No	No	3.80E+00	U	1.30E-03	U	-		-		1
Acifluorofen	50594-66-6	No	No	-		-		-		-		1
Acridine	260-94-6	No	No	-		-		-		-		1
Acrolein	107-02-8	No	Yes	-		-		5.00E-04	U	2.00E-05	U	1
Acrylamide	79-06-1	Yes	No	5.00E-01	U	1.00E-04	U	2.00E-03	U	6.00E-03	U	1
Acrylic Acid	79-10-7	No	Yes	-		-		5.00E-01	U	1.00E-03	U	1
Acrylonitrile	107-13-1	No	Yes	5.40E-01	U	6.80E-05	U	4.00E-02	U	2.00E-03	U	1
Adiponitrile	111-69-3	No	No	-		-		-		6.00E-03	U	1
Alachlor	15972-60-8	No	No	5.60E-02	U	-		1.00E-02	U	-		1
Aldicarb	116-06-3	No	No	-		-		1.00E-03	U	-		1
Aldicarb Sulfone	1646-88-4	No	No	-		-		1.00E-03	U	-		1
Aldicarb sulfoxide	1646-87-3	No	No	-		-		-		-		1
Aldrin	309-00-2	No	Yes	1.70E+01	U	4.90E-03	U	3.00E-05	U	-		1
Aliphatic Chlorinated Hydrocarbons (each)	NA	No	No	-		-		-		-		1
Aliphatic Chlorinated Hydrocarbons (total)	NA	No	No	-		-		-		-		1
Alizarin Red Compounds	NA	No	No	-		-		-		-		1
Ally	74223-64-6	No	No	-		-		2.50E-01	U	-		1
Allyl Alcohol	107-18-6	No	Yes	-		-		5.00E-03	U	1.00E-04	U	1
Allyl Chloride	107-05-1	No	Yes	2.10E-02	U	6.00E-06	U	-		1.00E-03	U	1
Aluminum	7429-90-5	No	No	-		-		1.00E+00	U	5.00E-03	U	1
Aluminum Phosphide	20859-73-8	No	No	-		-		4.00E-04	U	-		1
Aluminum metaphosphate	13776-88-0	No	No	-		-		4.86E+01	U	-		1
Amdro	67485-29-4	No	No	-		-		3.00E-04	U	-		1
Ametryn	834-12-8	No	No	-		-		9.00E-03	U	-		1

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
ALAR	1596-84-5	0.1	1	-	-	3.23E+09	1.15E+04	9.09E+04	1.62E+09	1.02E+04	4.42E+05
Acenaphthene	83-32-9	0.13	1	1.94E+05	-	3.23E+09	-	-	-	-	1.77E+05
Acenaphthylene	208-96-8	0.13	1	2.61E+05	-	3.23E+09	-	-	-	-	-
Acephate	30560-19-1	0.1	1	-	-	3.23E+09	2.37E+04	1.88E+05	-	2.11E+04	1.18E+04
Acetaldehyde	75-07-0	-	1	1.20E+04	1.07E+05	3.23E+09	-	-	1.39E+04	1.39E+04	-
Acetochlor	34256-82-1	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Acetone	67-64-1	-	1	1.88E+04	1.14E+05	3.23E+09	-	-	-	-	2.65E+06
Acetone Cyanohydrin	75-86-5	-	1	3.28E+04	1.06E+05	3.23E+09	-	-	-	-	-
Acetonitrile	75-05-8	-	1	1.79E+04	1.28E+05	3.23E+09	-	-	-	-	-
Acetophenone	98-86-2	-	1	8.24E+04	2.52E+03	3.23E+09	-	-	-	-	2.95E+05
Acetylaminofluorene, 2-	53-96-3	0.1	1	-	-	3.23E+09	5.43E+01	4.31E+02	6.35E+06	4.82E+01	-
Acifluorofen	50594-66-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Acridine	260-94-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Acrolein	107-02-8	-	1	9.52E+03	2.27E+04	3.23E+09	-	-	-	-	1.47E+03
Acrylamide	79-06-1	0.1	1	-	-	3.23E+09	4.13E+02	3.27E+03	8.26E+07	3.67E+02	5.90E+03
Acrylic Acid	79-10-7	-	1	1.31E+05	1.09E+05	3.23E+09	-	-	-	-	1.47E+06
Acrylonitrile	107-13-1	-	1	1.06E+04	1.13E+04	3.23E+09	3.82E+02	-	3.98E+02	1.95E+02	1.18E+05
Adiponitrile	111-69-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Alachlor	15972-60-8	0.1	1	-	-	3.23E+09	3.69E+03	2.92E+04	-	3.27E+03	2.95E+04
Aldicarb	116-06-3	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Aldicarb Sulfone	1646-88-4	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Aldicarb sulfoxide	1646-87-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Aldrin	309-00-2	-	1	2.37E+06	-	3.23E+09	1.21E+01	-	1.23E+03	1.20E+01	8.85E+01
Aliphatic Chlorinated Hydrocarbons (each)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Aliphatic Chlorinated Hydrocarbons (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Alizarin Red Compounds	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Ally	74223-64-6	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+05
Allyl Alcohol	107-18-6	-	1	4.71E+04	1.11E+05	3.23E+09	-	-	-	-	1.47E+04
Allyl Chloride	107-05-1	-	1	2.18E+03	1.42E+03	3.23E+09	9.83E+03	-	9.30E+02	8.49E+02	-
Aluminum	7429-90-5	-	1	-	-	3.23E+09	-	-	-	-	2.95E+06
Aluminum Phosphide	20859-73-8	-	1	-	-	3.23E+09	-	-	-	-	1.18E+03
Aluminum metaphosphate	13776-88-0	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Amdro	67485-29-4	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+02
Ametryn	834-12-8	0.1	1	-	-	3.23E+09	-	-	-	-	2.65E+04

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
ALAR	1596-84-5	3.51E+06	-	3.93E+05	1.02E+04 ca*
Acenaphthene	83-32-9	1.08E+06	-	1.52E+05	1.52E+05 max
Acenaphthylene	208-96-8	-	-	-	
Acephate	30560-19-1	9.35E+04	-	1.05E+04	1.05E+04 nc
Acetaldehyde	75-07-0	-	3.94E+03	3.94E+03	3.94E+03 nc
Acetochlor	34256-82-1	4.67E+05	-	5.24E+04	5.24E+04 nc
Acetone	67-64-1	-	2.13E+07	2.36E+06	2.36E+06 sat
Acetone Cyanohydrin	75-86-5	-	2.39E+03	2.39E+03	2.39E+03 nc
Acetonitrile	75-05-8	-	3.92E+04	3.92E+04	3.92E+04 nc
Acetophenone	98-86-2	-	-	2.95E+05	2.95E+05 sat
Acetylaminofluorene, 2-	53-96-3	-	-	-	4.82E+01 ca
Acifluorofen	50594-66-6	-	-	-	
Acridine	260-94-6	-	-	-	
Acrolein	107-02-8	-	6.95E+00	6.92E+00	6.92E+00 nc
Acrylamide	79-06-1	4.67E+04	7.08E+08	5.24E+03	3.67E+02 ca*
Acrylic Acid	79-10-7	-	4.80E+03	4.78E+03	4.78E+03 nc
Acrylonitrile	107-13-1	-	7.73E+02	7.68E+02	1.95E+02 ca**
Adiponitrile	111-69-3	-	7.08E+08	7.08E+08	7.08E+08 max
Alachlor	15972-60-8	2.34E+05	-	2.62E+04	3.27E+03 ca**
Aldicarb	116-06-3	2.34E+04	-	2.62E+03	2.62E+03 nc
Aldicarb Sulfone	1646-88-4	2.34E+04	-	2.62E+03	2.62E+03 nc
Aldicarb sulfoxide	1646-87-3	-	-	-	
Aldrin	309-00-2	-	-	8.85E+01	1.20E+01 ca**
Aliphatic Chlorinated Hydrocarbons (each)	NA	-	-	-	
Aliphatic Chlorinated Hydrocarbons (total)	NA	-	-	-	
Alizarin Red Compounds	NA	-	-	-	
Ally	74223-64-6	5.84E+06	-	6.55E+05	6.55E+05 max
Allyl Alcohol	107-18-6	-	1.72E+02	1.70E+02	1.70E+02 nc
Allyl Chloride	107-05-1	-	7.97E+01	7.97E+01	7.97E+01 nc
Aluminum	7429-90-5	-	5.90E+08	2.93E+06	2.93E+06 max
Aluminum Phosphide	20859-73-8	-	-	1.18E+03	1.18E+03 nc
Aluminum metaphosphate	13776-88-0	-	-	1.43E+08	1.43E+08 max
Amdro	67485-29-4	7.01E+03	-	7.86E+02	7.86E+02 nc
Ametryn	834-12-8	2.10E+05	-	2.36E+04	2.36E+04 nc

Site-specific
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Amino-4-chlorobenzotrifluoride, 3-	121-50-6	No	Yes	-		-		-		-		1
Aminoazobenzene, p-	60-09-3	No	No	-		-		-		-		1
Aminobiphenyl, 4-	92-67-1	No	No	2.10E+01	U	6.00E-03	U	-		-		1
Aminophenol, m-	591-27-5	No	No	-		-		8.00E-02	U	-		1
Aminophenol, o-	95-55-6	No	No	-		-		-		-		1
Aminophenol, p-	123-30-8	No	No	-		-		2.00E-02	U	-		1
Aminopyridine, 4-	504-24-5	No	No	-		-		-		-		1
Amitraz	33089-61-1	No	No	-		-		2.50E-03	U	-		1
Ammonium Perchlorate	7790-98-9	No	No	-		-		7.00E-04	U	-		1
Ammonium Sulfamate	7773-06-0	No	No	-		-		2.00E-01	U	-		1
Ammonium polyphosphate	68333-79-9	No	No	-		-		4.86E+01	U	-		1
Amyl Alcohol, tert-	75-85-4	No	Yes	-		-		-		3.00E-03	U	1
Aniline	62-53-3	No	No	5.70E-03	U	1.60E-06	U	7.00E-03	U	1.00E-03	U	1
Anilinobenzothiazole	1843-21-6	No	No	-		-		-		-		1
Anthracene	120-12-7	No	Yes	-		-		3.00E-01	U	-		1
Anthraquinone, 9,10-	84-65-1	No	No	4.00E-02	U	-		2.00E-03	U	-		1
Antimony (metallic)	7440-36-0	No	No	-		-		4.00E-04	U	-		0.15
Antimony Pentoxide	1314-60-9	No	No	-		-		5.00E-04	U	-		0.15
Antimony Potassium Tartrate	11071-15-1	No	No	-		-		9.00E-04	U	-		0.15
Antimony Tetroxide	1332-81-6	No	No	-		-		4.00E-04	U	-		0.15
Antimony Trichloride	10025-91-9	No	No	-		-		-		-		1
Antimony Trioxide	1309-64-4	No	No	-		-		-		2.00E-04	U	0.15
Apollo	74115-24-5	No	No	-		-		1.30E-02	U	-		1
Aramite	140-57-8	No	No	2.50E-02	U	7.10E-06	U	5.00E-02	U	-		1
Aroclor 1016	12674-11-2	No	Yes	7.00E-02	U	2.00E-05	U	7.00E-05	U	-		1
Aroclor 1221	11104-28-2	No	Yes	2.00E+00	U	5.71E-04	U	-		-		1
Aroclor 1232	11141-16-5	No	Yes	2.00E+00	U	5.71E-04	U	-		-		1
Aroclor 1242	53469-21-9	No	Yes	2.00E+00	U	5.71E-04	U	-		-		1
Aroclor 1248	12672-29-6	No	Yes	2.00E+00	U	5.71E-04	U	-		-		1
Aroclor 1254	11097-69-1	No	Yes	2.00E+00	U	5.71E-04	U	2.00E-05	U	-		1
Aroclor 1260	11096-82-5	No	Yes	2.00E+00	U	5.71E-04	U	-		-		1
Aroclor 5460	11126-42-4	No	Yes	-		-		6.00E-04	U	-		1
Arsenic Salts	NA	No	No	-		-		-		-		1
Arsenic, Inorganic	7440-38-2	No	No	1.50E+00	U	4.30E-03	U	3.00E-04	U	1.50E-05	U	1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Amino-4-chlorobenzotrifluoride, 3-	121-50-6	-	1	3.69E+05	-	3.23E+09	-	-	-	-	-
Aminoazobenzene, p-	60-09-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Aminobiphenyl, 4-	92-67-1	0.1	1	-	-	3.23E+09	9.83E+00	7.79E+01	1.38E+06	8.73E+00	-
Aminophenol, m-	591-27-5	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+05
Aminophenol, o-	95-55-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Aminophenol, p-	123-30-8	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Aminopyridine, 4-	504-24-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Amitraz	33089-61-1	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+03
Ammonium Perchlorate	7790-98-9	-	1	-	-	3.23E+09	-	-	-	-	2.06E+03
Ammonium Sulfamate	7773-06-0	-	1	-	-	3.23E+09	-	-	-	-	5.90E+05
Ammonium polyphosphate	68333-79-9	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Amyl Alcohol, tert-	75-85-4	-	1	3.62E+04	1.37E+04	3.23E+09	-	-	-	-	-
Aniline	62-53-3	0.1	1	-	-	3.23E+09	3.62E+04	2.87E+05	5.16E+09	3.22E+04	2.06E+04
Anilinobenzothiazole	1843-21-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Anthracene	120-12-7	0.13	1	7.23E+05	-	3.23E+09	-	-	-	-	8.85E+05
Anthraquinone, 9,10-	84-65-1	0.1	1	-	-	3.23E+09	5.16E+03	4.09E+04	-	4.58E+03	5.90E+03
Antimony (metallic)	7440-36-0	-	1	-	-	3.23E+09	-	-	-	-	1.18E+03
Antimony Pentoxide	1314-60-9	-	1	-	-	3.23E+09	-	-	-	-	1.47E+03
Antimony Potassium Tartrate	11071-15-1	-	1	-	-	3.23E+09	-	-	-	-	2.65E+03
Antimony Tetroxide	1332-81-6	-	1	-	-	3.23E+09	-	-	-	-	1.18E+03
Antimony Trichloride	10025-91-9	-	1	-	-	3.23E+09	-	-	-	-	-
Antimony Trioxide	1309-64-4	-	1	-	-	3.23E+09	-	-	-	-	-
Apollo	74115-24-5	0.1	1	-	-	3.23E+09	-	-	-	-	3.83E+04
Aramite	140-57-8	0.1	1	-	-	3.23E+09	8.26E+03	6.54E+04	1.16E+09	7.33E+03	1.47E+05
Aroclor 1016	12674-11-2	0.14	1	8.07E+05	-	3.23E+09	2.95E+03	1.67E+04	1.03E+05	2.45E+03	2.06E+02
Aroclor 1221	11104-28-2	0.14	1	1.57E+05	-	3.23E+09	1.03E+02	5.84E+02	7.00E+02	7.80E+01	-
Aroclor 1232	11141-16-5	0.14	1	1.54E+05	-	3.23E+09	1.03E+02	5.84E+02	6.91E+02	7.78E+01	-
Aroclor 1242	53469-21-9	0.14	1	1.09E+06	-	3.23E+09	1.03E+02	5.84E+02	4.89E+03	8.62E+01	-
Aroclor 1248	12672-29-6	0.14	1	7.08E+05	-	3.23E+09	1.03E+02	5.84E+02	3.17E+03	8.54E+01	-
Aroclor 1254	11097-69-1	0.14	1	1.16E+06	-	3.23E+09	1.03E+02	5.84E+02	5.21E+03	8.63E+01	5.90E+01
Aroclor 1260	11096-82-5	0.14	1	1.82E+06	-	3.23E+09	1.03E+02	5.84E+02	8.13E+03	8.68E+01	-
Aroclor 5460	11126-42-4	0.14	1	9.89E+05	-	3.23E+09	-	-	-	-	1.77E+03
Arsenic Salts	NA	0.03	0.6	-	-	3.23E+09	-	-	-	-	-
Arsenic, Inorganic	7440-38-2	0.03	0.6	-	-	3.23E+09	2.29E+02	3.64E+03	1.92E+06	2.16E+02	1.47E+03

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Amino-4-chlorobenzotrifluoride, 3-	121-50-6	-	-	-	
Aminoazobenzene, p-	60-09-3	-	-	-	
Aminobiphenyl, 4-	92-67-1	-	-	-	8.73E+00 ca
Aminophenol, m-	591-27-5	1.87E+06	-	2.10E+05	2.10E+05 max
Aminophenol, o-	95-55-6	-	-	-	
Aminophenol, p-	123-30-8	4.67E+05	-	5.24E+04	5.24E+04 nc
Aminopyridine, 4-	504-24-5	-	-	-	
Amitraz	33089-61-1	5.84E+04	-	6.55E+03	6.55E+03 nc
Ammonium Perchlorate	7790-98-9	-	-	2.06E+03	2.06E+03 nc
Ammonium Sulfamate	7773-06-0	-	-	5.90E+05	5.90E+05 max
Ammonium polyphosphate	68333-79-9	-	-	1.43E+08	1.43E+08 max
Amyl Alcohol, tert-	75-85-4	-	3.96E+03	3.96E+03	3.96E+03 nc
Aniline	62-53-3	1.64E+05	1.18E+08	1.83E+04	1.83E+04 nc
Anilinobenzothiazole	1843-21-6	-	-	-	
Anthracene	120-12-7	5.39E+06	-	7.60E+05	7.60E+05 max
Anthraquinone, 9,10-	84-65-1	4.67E+04	-	5.24E+03	4.58E+03 ca**
Antimony (metallic)	7440-36-0	-	-	1.18E+03	1.18E+03 nc
Antimony Pentoxide	1314-60-9	-	-	1.47E+03	1.47E+03 nc
Antimony Potassium Tartrate	11071-15-1	-	-	2.65E+03	2.65E+03 nc
Antimony Tetroxide	1332-81-6	-	-	1.18E+03	1.18E+03 nc
Antimony Trichloride	10025-91-9	-	-	-	
Antimony Trioxide	1309-64-4	-	2.36E+07	2.36E+07	2.36E+07 max
Apollo	74115-24-5	3.04E+05	-	3.40E+04	3.40E+04 nc
Aramite	140-57-8	1.17E+06	-	1.31E+05	7.33E+03 ca*
Aroclor 1016	12674-11-2	1.17E+03	-	1.75E+02	1.75E+02 nc
Aroclor 1221	11104-28-2	-	-	-	7.80E+01 ca
Aroclor 1232	11141-16-5	-	-	-	7.78E+01 ca
Aroclor 1242	53469-21-9	-	-	-	8.62E+01 ca
Aroclor 1248	12672-29-6	-	-	-	8.54E+01 ca
Aroclor 1254	11097-69-1	3.34E+02	-	5.01E+01	5.01E+01 nc
Aroclor 1260	11096-82-5	-	-	-	8.68E+01 ca
Aroclor 5460	11126-42-4	1.00E+04	-	1.50E+03	1.50E+03 nc
Arsenic Salts	NA	-	-	-	
Arsenic, Inorganic	7440-38-2	2.34E+04	1.77E+06	1.39E+03	2.16E+02 ca**

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Arsine	7784-42-1	No	No	-		-		3.50E-06	U	5.00E-05	U	1
Assure	76578-14-8	No	No	-		-		9.00E-03	U	-		1
Asulam	3337-71-1	No	No	-		-		5.00E-02	U	-		1
Atrazine	1912-24-9	No	No	2.30E-01	U	-		3.50E-02	U	-		1
Auramine	492-80-8	No	No	8.80E-01	U	2.50E-04	U	-		-		1
Avermectin B1	65195-55-3	No	No	-		-		4.00E-04	U	-		1
Azobenzene	103-33-3	No	Yes	1.10E-01	U	3.10E-05	U	-		-		1
Azodicarbonamide	123-77-3	No	No	-		-		1.00E+00	U	7.00E-06	U	1
Barium	7440-39-3	No	No	-		-		2.00E-01	U	5.00E-04	U	0.07
Barium Chromate	10294-40-3	Yes	No	5.00E-01	U	1.50E-01	U	2.00E-02	U	2.00E-04	U	0.025
Barium Cyanide	542-62-1	No	No	-		-		-		-		0.07
Baygon	114-26-1	No	No	-		-		4.00E-03	U	-		1
Bayleton	43121-43-3	No	No	-		-		3.00E-02	U	-		1
Baythroid	68359-37-5	No	No	-		-		2.50E-02	U	-		1
Benefin	1861-40-1	No	Yes	-		-		3.00E-01	U	-		1
Benomyl	17804-35-2	No	No	-		-		5.00E-02	U	-		1
Bentazon	25057-89-0	No	No	-		-		3.00E-02	U	-		1
Benz[a]anthracene	56-55-3	Yes	Yes	7.30E-01	U	1.10E-04	U	-		-		1
Benzaldehyde	100-52-7	No	Yes	-		-		1.00E-01	U	-		1
Benzene	71-43-2	No	Yes	5.50E-02	U	7.80E-06	U	4.00E-03	U	3.00E-02	U	1
Benzene, Ethyldimethyl	29224-55-3	No	Yes	-		-		-		-		1
Benzene, Ethylmethyl	25550-14-5	No	Yes	-		-		-		-		1
Benzene, Methylpropenyl	768-00-3	No	Yes	-		-		-		-		1
Benzene, Methylpropyl	28729-54-6	No	No	-		-		-		-		1
Benzene, Trimethyl	25551-13-7	No	Yes	-		-		-		-		1
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	No	No	1.00E-01	U	-		3.00E-04	U	-		1
Benzenethiol	108-98-5	No	Yes	-		-		1.00E-03	U	-		1
Benzidine	92-87-5	Yes	No	2.30E+02	U	6.70E-02	U	3.00E-03	U	-		1
Benzo(j)fluoranthene	205-82-3	No	No	1.20E+00	U	1.10E-04	U	-		-		1
Benzo[a]pyrene	50-32-8	Yes	No	7.30E+00	U	1.10E-03	U	-		-		1
Benzo[b]fluoranthene	205-99-2	Yes	No	7.30E-01	U	1.10E-04	U	-		-		1
Benzo[g,h,i]perylene	191-24-2	No	No	-		-		-		-		1
Benzo[k]fluoranthene	207-08-9	Yes	No	7.30E-02	U	1.10E-04	U	-		-		1
Benzofluoranthenes, total	NA	No	No	-		-		-		-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Arsine	7784-42-1	-	1	-	-	3.23E+09	-	-	-	-	1.03E+01
Assure	76578-14-8	0.1	1	-	-	3.23E+09	-	-	-	-	2.65E+04
Asulam	3337-71-1	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Atrazine	1912-24-9	0.1	1	-	-	3.23E+09	8.98E+02	7.11E+03	-	7.97E+02	1.03E+05
Auramine	492-80-8	0.1	1	-	-	3.23E+09	2.35E+02	1.86E+03	3.30E+07	2.08E+02	-
Avermectin B1	65195-55-3	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+03
Azobenzene	103-33-3	-	1	7.21E+05	-	3.23E+09	1.88E+03	-	5.94E+04	1.82E+03	-
Azodicarbonamide	123-77-3	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+06
Barium	7440-39-3	-	1	-	-	3.23E+09	-	-	-	-	5.90E+05
Barium Chromate	10294-40-3	-	1	-	-	3.23E+09	4.13E+02	-	5.51E+04	4.10E+02	5.90E+04
Barium Cyanide	542-62-1	-	1	-	-	3.23E+09	-	-	-	-	-
Baygon	114-26-1	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+04
Bayleton	43121-43-3	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Baythroid	68359-37-5	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+04
Benefin	1861-40-1	-	1	4.23E+05	-	3.23E+09	-	-	-	-	8.85E+05
Benomyl	17804-35-2	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Bentazon	25057-89-0	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Benz[a]anthracene	56-55-3	0.13	1	6.09E+06	-	3.23E+09	2.83E+02	1.72E+03	1.41E+05	2.43E+02	-
Benzaldehyde	100-52-7	-	1	3.10E+04	1.16E+03	3.23E+09	-	-	-	-	2.95E+05
Benzene	71-43-2	-	1	4.88E+03	1.82E+03	3.23E+09	3.75E+03	-	1.60E+03	1.12E+03	1.18E+04
Benzene, Ethyldimethyl	29224-55-3	-	1	1.26E+04	1.31E+02	3.23E+09	-	-	-	-	-
Benzene, Ethylmethyl	25550-14-5	-	1	1.30E+04	3.30E+02	3.23E+09	-	-	-	-	-
Benzene, Methylpropenyl	768-00-3	-	1	1.58E+04	4.90E+02	3.23E+09	-	-	-	-	-
Benzene, Methylpropyl	28729-54-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Benzene, Trimethyl	25551-13-7	-	1	9.03E+03	1.82E+02	3.23E+09	-	-	-	-	-
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	0.1	1	-	-	3.23E+09	2.06E+03	1.64E+04	-	1.83E+03	8.85E+02
Benzenethiol	108-98-5	-	1	2.67E+04	1.26E+03	3.23E+09	-	-	-	-	2.95E+03
Benzidine	92-87-5	0.1	1	-	-	3.23E+09	8.98E-01	7.11E+00	1.23E+05	7.97E-01	8.85E+03
Benzo(j)fluoranthene	205-82-3	0.13	1	-	-	3.23E+09	1.72E+02	1.05E+03	7.51E+07	1.48E+02	-
Benzo[a]pyrene	50-32-8	0.13	1	-	-	3.23E+09	2.83E+01	1.72E+02	7.51E+06	2.43E+01	-
Benzo[b]fluoranthene	205-99-2	0.13	1	-	-	3.23E+09	2.83E+02	1.72E+03	7.51E+07	2.43E+02	-
Benzo[g,h,i]perylene	191-24-2	0.13	1	-	-	3.23E+09	-	-	-	-	-
Benzo[k]fluoranthene	207-08-9	0.13	1	-	-	3.23E+09	2.83E+03	1.72E+04	7.51E+07	2.43E+03	-
Benzofluoranthenes, total	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Arsine	7784-42-1	-	5.90E+06	1.03E+01	1.03E+01 nc
Assure	76578-14-8	2.10E+05	-	2.36E+04	2.36E+04 nc
Asulam	3337-71-1	1.17E+06	-	1.31E+05	1.31E+05 max
Atrazine	1912-24-9	8.18E+05	-	9.17E+04	7.97E+02 ca
Auramine	492-80-8	-	-	-	2.08E+02 ca
Avermectin B1	65195-55-3	9.35E+03	-	1.05E+03	1.05E+03 nc
Azobenzene	103-33-3	-	-	-	1.82E+03 ca
Azodicarbonamide	123-77-3	2.34E+07	8.26E+05	6.28E+05	6.28E+05 max
Barium	7440-39-3	-	5.90E+07	5.84E+05	5.84E+05 max
Barium Chromate	10294-40-3	-	2.36E+07	5.88E+04	4.10E+02 ca
Barium Cyanide	542-62-1	-	-	-	
Baygon	114-26-1	9.35E+04	-	1.05E+04	1.05E+04 nc
Bayleton	43121-43-3	7.01E+05	-	7.86E+04	7.86E+04 nc
Baythroid	68359-37-5	5.84E+05	-	6.55E+04	6.55E+04 nc
Benefin	1861-40-1	-	-	8.85E+05	8.85E+05 max
Benomyl	17804-35-2	1.17E+06	-	1.31E+05	1.31E+05 max
Bentazon	25057-89-0	7.01E+05	-	7.86E+04	7.86E+04 nc
Benz[a]anthracene	56-55-3	-	-	-	2.43E+02 ca
Benzaldehyde	100-52-7	-	-	2.95E+05	2.95E+05 sat
Benzene	71-43-2	-	5.34E+03	3.68E+03	1.12E+03 ca**
Benzene, Ethyldimethyl	29224-55-3	-	-	-	
Benzene, Ethylmethyl	25550-14-5	-	-	-	
Benzene, Methylpropenyl	768-00-3	-	-	-	
Benzene, Methylpropyl	28729-54-6	-	-	-	
Benzene, Trimethyl	25551-13-7	-	-	-	
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	7.01E+03	-	7.86E+02	7.86E+02 nc
Benzenethiol	108-98-5	-	-	2.95E+03	2.95E+03 sat
Benzidine	92-87-5	7.01E+04	-	7.86E+03	7.97E-01 ca
Benzo(j)fluoranthene	205-82-3	-	-	-	1.48E+02 ca
Benzo[a]pyrene	50-32-8	-	-	-	2.43E+01 ca
Benzo[b]fluoranthene	205-99-2	-	-	-	2.43E+02 ca
Benzo[g,h,i]perylene	191-24-2	-	-	-	
Benzo[k]fluoranthene	207-08-9	-	-	-	2.43E+03 ca
Benzofluoranthenes, total	NA	-	-	-	

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Benzofluorene, 2,3-	243-17-4	No	No	-		-		-		-		1
Benzoic Acid	65-85-0	No	No	-		-		4.00E+00	U	-		1
Benzoic acid, 3,5-dichloro-	51-36-5	No	No	-		-		-		-		1
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	No	No	-		-		-		-		1
Benzothiazole	95-16-9	No	No	-		-		-		-		1
Benzotrichloride	98-07-7	No	Yes	1.30E+01	U	-		-		-		1
Benzyl Alcohol	100-51-6	No	No	-		-		1.00E-01	U	-		1
Benzyl Chloride	100-44-7	No	Yes	1.70E-01	U	4.90E-05	U	2.00E-03	U	1.00E-03	U	1
Beryllium and compounds	7440-41-7	No	No	-		2.40E-03	U	2.00E-03	U	2.00E-05	U	0.007
Bidrin	141-66-2	No	No	-		-		1.00E-04	U	-		1
Bifenox	42576-02-3	No	No	-		-		9.00E-03	U	-		1
Biphenthrin	82657-04-3	No	No	-		-		1.50E-02	U	-		1
Biphenyl, 1,1'-	92-52-4	No	Yes	8.00E-03	U	-		5.00E-01	U	4.00E-04	U	1
Bis(2-chloro-1-methylethyl) ether	108-60-1	No	Yes	7.00E-02	U	1.00E-05	U	4.00E-02	U	-		1
Bis(2-chloroethoxy)methane	111-91-1	No	No	-		-		3.00E-03	U	-		1
Bis(2-chloroethyl)ether	111-44-4	No	Yes	1.10E+00	U	3.30E-04	U	-		-		1
Bis(2-ethylhexyl)phthalate	117-81-7	No	No	1.40E-02	U	2.40E-06	U	2.00E-02	U	-		1
Bis(Octanoyloxy)Di-N-Butyl Stannane	4731-77-5	No	Yes	-		-		-		-		1
Bis(chloromethyl)ether	542-88-1	No	Yes	2.20E+02	U	6.20E-02	U	-		-		1
Bis(oleoyloxy)dibutyl tin	13323-62-1	No	Yes	-		-		-		-		1
Bisphenol A	80-05-7	No	No	-		-		5.00E-02	U	-		1
Boron And Borates Only	7440-42-8	No	No	-		-		2.00E-01	U	2.00E-02	U	1
Boron Trichloride	10294-34-5	No	Yes	-		-		2.00E+00	U	2.00E-02	U	1
Boron Trifluoride	7637-07-2	No	Yes	-		-		4.00E-02	U	1.30E-02	U	1
Bromacil	314-40-9	No	No	-		-		-		-		1
Bromate	15541-45-4	No	No	7.00E-01	U	-		4.00E-03	U	-		1
Bromine	7726-95-6	No	Yes	-		-		-		-		1
Bromo-2-chloroethane, 1-	107-04-0	No	Yes	2.00E+00	U	6.00E-04	U	-		-		1
Bromo-3-fluorobenzene, 1-	1073-06-9	No	Yes	-		-		-		-		1
Bromo-4-Ethylbenzene, 1-	1585-07-5	No	Yes	-		-		-		-		1
Bromoacetic acid	79-08-3	No	No	-		-		-		-		1
Bromoacetophenone, 3-	2142-63-4	No	No	-		-		-		-		1
Bromobenzene	108-86-1	No	Yes	-		-		8.00E-03	U	6.00E-02	U	1
Bromochloromethane	74-97-5	No	Yes	-		-		-		4.00E-02	U	1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Benzofluorene, 2,3-	243-17-4	0.1	1	-	-	3.23E+09	-	-	-	-	-
Benzoic Acid	65-85-0	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+07
Benzoic acid, 3,5-dichloro-	51-36-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Benzothiazole	95-16-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Benzotrichloride	98-07-7	-	1	9.33E+04	3.23E+02	3.23E+09	1.59E+01	-	-	1.59E+01	-
Benzyl Alcohol	100-51-6	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Benzyl Chloride	100-44-7	-	1	3.52E+04	1.46E+03	3.23E+09	1.21E+03	-	1.83E+03	7.31E+02	5.90E+03
Beryllium and compounds	7440-41-7	-	1	-	-	3.23E+09	-	-	3.44E+06	3.44E+06	5.90E+03
Bidrin	141-66-2	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+02
Bifenox	42576-02-3	0.1	1	-	-	3.23E+09	-	-	-	-	2.65E+04
Biphenthrin	82657-04-3	0.1	1	-	-	3.23E+09	-	-	-	-	4.42E+04
Biphenyl, 1,1'-	92-52-4	-	1	1.57E+05	-	3.23E+09	2.58E+04	-	-	2.58E+04	1.47E+06
Bis(2-chloro-1-methylethyl) ether	108-60-1	-	1	4.83E+04	1.02E+03	3.23E+09	2.95E+03	-	1.23E+04	2.38E+03	1.18E+05
Bis(2-chloroethoxy)methane	111-91-1	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+03
Bis(2-chloroethyl)ether	111-44-4	-	1	5.87E+04	5.05E+03	3.23E+09	1.88E+02	-	4.54E+02	1.33E+02	-
Bis(2-ethylhexyl)phthalate	117-81-7	0.1	1	-	-	3.23E+09	1.47E+04	1.17E+05	3.44E+09	1.31E+04	5.90E+04
Bis(Octanoyloxy)Di-N-Butyl Stannane	4731-77-5	-	1	8.48E+04	-	3.23E+09	-	-	-	-	-
Bis(chloromethyl)ether	542-88-1	-	1	2.59E+03	4.22E+03	3.23E+09	9.38E-01	-	1.07E-01	9.58E-02	-
Bis(oleoyloxy)dibutyl tin	13323-62-1	-	1	2.64E+06	-	3.23E+09	-	-	-	-	-
Bisphenol A	80-05-7	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Boron And Borates Only	7440-42-8	-	1	-	-	3.23E+09	-	-	-	-	5.90E+05
Boron Trichloride	10294-34-5	-	1	-	-	3.23E+09	-	-	-	-	5.90E+06
Boron Trifluoride	7637-07-2	-	1	-	-	3.23E+09	-	-	-	-	1.18E+05
Bromacil	314-40-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Bromate	15541-45-4	-	1	-	-	3.23E+09	2.95E+02	-	-	2.95E+02	1.18E+04
Bromine	7726-95-6	-	1	-	-	3.23E+09	-	-	-	-	-
Bromo-2-chloroethane, 1-	107-04-0	-	1	8.17E+03	2.38E+03	3.23E+09	1.03E+02	-	3.48E+01	2.60E+01	-
Bromo-3-fluorobenzene, 1-	1073-06-9	-	1	9.79E+03	9.07E+02	3.23E+09	-	-	-	-	-
Bromo-4-Ethylbenzene, 1-	1585-07-5	-	1	1.96E+04	2.06E+02	3.23E+09	-	-	-	-	-
Bromoacetic acid	79-08-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Bromoacetophenone, 3-	2142-63-4	0.1	1	-	-	3.23E+09	-	-	-	-	-
Bromobenzene	108-86-1	-	1	1.15E+04	6.79E+02	3.23E+09	-	-	-	-	2.36E+04
Bromochloromethane	74-97-5	-	1	4.94E+03	4.03E+03	3.23E+09	-	-	-	-	-

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Benzofluorene, 2,3-	243-17-4	-	-	-	
Benzoic Acid	65-85-0	9.35E+07	-	1.05E+07	1.05E+07 max
Benzoic acid, 3,5-dichloro-	51-36-5	-	-	-	
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	-	-	-	
Benzothiazole	95-16-9	-	-	-	
Benzotrichloride	98-07-7	-	-	-	1.59E+01 ca
Benzyl Alcohol	100-51-6	2.34E+06	-	2.62E+05	2.62E+05 max
Benzyl Chloride	100-44-7	-	1.28E+03	1.05E+03	7.31E+02 ca**
Beryllium and compounds	7440-41-7	-	2.36E+06	5.88E+03	5.88E+03 nc
Bidrin	141-66-2	2.34E+03	-	2.62E+02	2.62E+02 nc
Bifenox	42576-02-3	2.10E+05	-	2.36E+04	2.36E+04 nc
Biphenthrin	82657-04-3	3.51E+05	-	3.93E+04	3.93E+04 nc
Biphenyl, 1,1'-	92-52-4	-	2.29E+03	2.29E+03	2.29E+03 nc
Bis(2-chloro-1-methylethyl) ether	108-60-1	-	-	1.18E+05	2.38E+03 sat
Bis(2-chloroethoxy)methane	111-91-1	7.01E+04	-	7.86E+03	7.86E+03 nc
Bis(2-chloroethyl)ether	111-44-4	-	-	-	1.33E+02 ca
Bis(2-ethylhexyl)phthalate	117-81-7	4.67E+05	-	5.24E+04	1.31E+04 ca**
Bis(Octanoyloxy)Di-N-Butyl Stannane	4731-77-5	-	-	-	
Bis(chloromethyl)ether	542-88-1	-	-	-	9.58E-02 ca
Bis(oleoyloxy)dibutyl tin	13323-62-1	-	-	-	
Bisphenol A	80-05-7	1.17E+06	-	1.31E+05	1.31E+05 max
Boron And Borates Only	7440-42-8	-	2.36E+09	5.90E+05	5.90E+05 max
Boron Trichloride	10294-34-5	-	2.36E+09	5.88E+06	5.88E+06 max
Boron Trifluoride	7637-07-2	-	1.53E+09	1.18E+05	1.18E+05 max
Bromacil	314-40-9	-	-	-	
Bromate	15541-45-4	-	-	1.18E+04	2.95E+02 ca*
Bromine	7726-95-6	-	-	-	
Bromo-2-chloroethane, 1-	107-04-0	-	-	-	2.60E+01 ca
Bromo-3-fluorobenzene, 1-	1073-06-9	-	-	-	
Bromo-4-Ethylbenzene, 1-	1585-07-5	-	-	-	
Bromoacetic acid	79-08-3	-	-	-	
Bromoacetophenone, 3-	2142-63-4	-	-	-	
Bromobenzene	108-86-1	-	2.53E+04	1.22E+04	1.22E+04 sat
Bromochloromethane	74-97-5	-	7.21E+03	7.21E+03	7.21E+03 sat

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Bromodichloromethane	75-27-4	No	Yes	6.20E-02	U	3.70E-05	U	2.00E-02	U	-		1
Bromodiphenyl Ether, p-	101-55-3	No	Yes	-		-		-		-		1
Bromofluorobenzene, p-	460-00-4	No	Yes	-		-		-		-		1
Bromoform	75-25-2	No	Yes	7.90E-03	U	1.10E-06	U	2.00E-02	U	-		1
Bromomethane	74-83-9	No	Yes	-		-		1.40E-03	U	5.00E-03	U	1
Bromophenol, p-	106-41-2	No	No	-		-		-		-		1
Bromophenyl-phenyl phthalate, 4-	NA	No	No	-		-		-		-		1
Bromophos	2104-96-3	No	Yes	-		-		5.00E-03	U	-		1
Bromopyridine, 2-	109-04-6	No	No	-		-		-		-		1
Bromotrichloromethane	75-62-7	No	Yes	-		-		-		-		1
Bromoxynil	1689-84-5	No	No	-		-		2.00E-02	U	-		1
Bromoxynil Octanoate	1689-99-2	No	Yes	-		-		2.00E-02	U	-		1
Butadiene, 1,3-	106-99-0	No	Yes	3.40E+00	U	3.00E-05	U	-		2.00E-03	U	1
Butanediol, 2,3-	513-85-9	No	No	-		-		-		-		1
Butanol	35296-72-1	No	Yes	-		-		-		-		1
Butanol, N-	71-36-3	No	Yes	-		-		1.00E-01	U	-		1
Butanone-2, 4-chloro-4,4-difluoro	NA	No	No	-		-		-		-		1
Butyl Alcohol, t-	75-65-0	No	Yes	-		-		-		-		1
Butyl Benzyl Phthlate	85-68-7	No	No	1.90E-03	U	-		2.00E-01	U	-		1
Butyl Formate, tert-	762-75-4	No	Yes	-		-		-		-		1
Butyl alcohol, sec-	78-92-2	No	Yes	-		-		2.00E+00	U	3.00E+01	U	1
Butylacetate	123-86-4	No	Yes	-		-		-		-		1
Butylate	2008-41-5	No	Yes	-		-		5.00E-02	U	-		1
Butylated hydroxyanisole	25013-16-5	No	No	2.00E-04	U	5.70E-08	U	-		-		1
Butylated hydroxytoluene	128-37-0	No	No	3.60E-03	U	-		3.00E-01	U	-		1
Butylbenzene, n-	104-51-8	No	Yes	-		-		5.00E-02	U	-		1
Butylbenzene, sec-	135-98-8	No	Yes	-		-		1.00E-01	U	-		1
Butylbenzene, tert-	98-06-6	No	Yes	-		-		1.00E-01	U	-		1
Butylchloride, t-	507-20-0	No	Yes	-		-		-		-		1
Butylphthalyl Butylglycolate	85-70-1	No	No	-		-		1.00E+00	U	-		1
Butyltin	NA	No	No	-		-		-		-		1
Cacodylic Acid	75-60-5	No	No	-		-		2.00E-02	U	-		1
Cadmium (Diet)	7440-43-9	No	No	-		1.80E-03	U	1.00E-03	U	1.00E-05	U	0.025
Calcium	7440-70-2	No	No	-		-		-		-		1

Site-specific
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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Bromodichloromethane	75-27-4	-	1	5.47E+03	9.31E+02	3.23E+09	3.33E+03	-	3.77E+02	3.39E+02	5.90E+04
Bromodiphenyl Ether, p-	101-55-3	-	1	2.57E+05	1.06E+02	3.23E+09	-	-	-	-	-
Bromofluorobenzene, p-	460-00-4	-	1	9.95E+03	1.06E+03	3.23E+09	-	-	-	-	-
Bromoform	75-25-2	-	1	1.34E+04	9.14E+02	3.23E+09	2.61E+04	-	3.11E+04	1.42E+04	5.90E+04
Bromomethane	74-83-9	-	1	1.93E+03	3.59E+03	3.23E+09	-	-	-	-	4.13E+03
Bromophenol, p-	106-41-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Bromophenyl-phenyl phthalate, 4-	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Bromophos	2104-96-3	-	1	1.71E+05	-	3.23E+09	-	-	-	-	1.47E+04
Bromopyridine, 2-	109-04-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Bromotrichloromethane	75-62-7	-	1	1.80E+04	4.25E+02	3.23E+09	-	-	-	-	-
Bromoxynil	1689-84-5	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Bromoxynil Octanoate	1689-99-2	-	1	6.55E+05	-	3.23E+09	-	-	-	-	5.90E+04
Butadiene, 1,3-	106-99-0	-	1	1.20E+03	6.67E+02	3.23E+09	6.07E+01	-	1.02E+02	3.81E+01	-
Butanediol, 2,3-	513-85-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Butanol	35296-72-1	-	1	4.02E+04	1.47E+04	3.23E+09	-	-	-	-	-
Butanol, N-	71-36-3	-	1	4.13E+04	7.64E+03	3.23E+09	-	-	-	-	2.95E+05
Butanone-2, 4-chloro-4,4-difluoro	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Butyl Alcohol, t-	75-65-0	-	1	3.96E+04	-	3.23E+09	-	-	-	-	-
Butyl Benzyl Phthlate	85-68-7	0.1	1	-	-	3.23E+09	1.09E+05	8.61E+05	-	9.65E+04	5.90E+05
Butyl Formate, tert-	762-75-4	-	1	6.00E+03	2.99E+03	3.23E+09	-	-	-	-	-
Butyl alcohol, sec-	78-92-2	-	1	4.03E+04	2.13E+04	3.23E+09	-	-	-	-	5.90E+06
Butylacetate	123-86-4	-	1	1.18E+04	1.79E+03	3.23E+09	-	-	-	-	-
Butylate	2008-41-5	-	1	1.19E+05	-	3.23E+09	-	-	-	-	1.47E+05
Butylated hydroxyanisole	25013-16-5	0.1	1	-	-	3.23E+09	1.03E+06	8.18E+06	1.45E+11	9.17E+05	-
Butylated hydroxytoluene	128-37-0	0.1	1	-	-	3.23E+09	5.74E+04	4.55E+05	-	5.09E+04	8.85E+05
Butylbenzene, n-	104-51-8	-	1	1.12E+04	1.07E+02	3.23E+09	-	-	-	-	1.47E+05
Butylbenzene, sec-	135-98-8	-	1	1.01E+04	1.45E+02	3.23E+09	-	-	-	-	2.95E+05
Butylbenzene, tert-	98-06-6	-	1	1.01E+04	1.83E+02	3.23E+09	-	-	-	-	2.95E+05
Butylchloride, t-	507-20-0	-	1	2.34E+03	1.33E+03	3.23E+09	-	-	-	-	-
Butylphthalyl Butylglycolate	85-70-1	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+06
Butyltin	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Cacodylic Acid	75-60-5	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Cadmium (Diet)	7440-43-9	0.001	1	-	-	3.23E+09	-	-	4.59E+06	4.59E+06	2.95E+03
Calcium	7440-70-2	-	1	-	-	3.23E+09	-	-	-	-	-

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Bromodichloromethane	75-27-4	-	-	5.90E+04	3.39E+02 ca
Bromodiphenyl Ether, p-	101-55-3	-	-	-	
Bromofluorobenzene, p-	460-00-4	-	-	-	
Bromoform	75-25-2	-	-	5.90E+04	1.42E+04 sat
Bromomethane	74-83-9	-	3.53E+02	3.25E+02	3.25E+02 nc
Bromophenol, p-	106-41-2	-	-	-	
Bromophenyl-phenyl phthalate, 4-	NA	-	-	-	
Bromophos	2104-96-3	-	-	1.47E+04	1.47E+04 nc
Bromopyridine, 2-	109-04-6	-	-	-	
Bromotrichloromethane	75-62-7	-	-	-	
Bromoxynil	1689-84-5	4.67E+05	-	5.24E+04	5.24E+04 nc
Bromoxynil Octanoate	1689-99-2	-	-	5.90E+04	5.90E+04 nc
Butadiene, 1,3-	106-99-0	-	8.73E+01	8.73E+01	3.81E+01 ca**
Butanediol, 2,3-	513-85-9	-	-	-	
Butanol	35296-72-1	-	-	-	
Butanol, N-	71-36-3	-	-	2.95E+05	2.95E+05 sat
Butanone-2, 4-chloro-4,4-difluoro	NA	-	-	-	
Butyl Alcohol, t-	75-65-0	-	-	-	
Butyl Benzyl Phthlate	85-68-7	4.67E+06	-	5.24E+05	9.65E+04 ca**
Butyl Formate, tert-	762-75-4	-	-	-	
Butyl alcohol, sec-	78-92-2	-	4.41E+07	5.20E+06	5.20E+06 sat
Butylacetate	123-86-4	-	-	-	
Butylate	2008-41-5	-	-	1.47E+05	1.47E+05 max
Butylated hydroxyanisole	25013-16-5	-	-	-	9.17E+05 max
Butylated hydroxytoluene	128-37-0	7.01E+06	-	7.86E+05	5.09E+04 ca*
Butylbenzene, n-	104-51-8	-	-	1.47E+05	1.47E+05 sat
Butylbenzene, sec-	135-98-8	-	-	2.95E+05	2.95E+05 sat
Butylbenzene, tert-	98-06-6	-	-	2.95E+05	2.95E+05 sat
Butylchloride, t-	507-20-0	-	-	-	
Butylphthalyl Butylglycolate	85-70-1	2.34E+07	-	2.62E+06	2.62E+06 max
Butyltin	NA	-	-	-	
Cacodylic Acid	75-60-5	4.67E+05	-	5.24E+04	5.24E+04 nc
Cadmium (Diet)	7440-43-9	5.84E+04	1.18E+06	2.80E+03	2.80E+03 nc
Calcium	7440-70-2	-	-	-	

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR UTILITY WORKER
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Calcium Chlorate	10137-74-3	No	No	-		-		-		-		1
Calcium Chromate	13765-19-0	Yes	No	5.00E-01	U	1.50E-01	U	2.00E-02	U	2.00E-04	U	0.025
Calcium Cyanide	592-01-8	No	No	-		-		1.00E-03	U	-		1
Calcium pyrophosphate	7790-76-3	No	No	-		-		4.86E+01	U	-		1
Caprolactam	105-60-2	No	No	-		-		5.00E-01	U	2.20E-03	U	1
Captafol	2425-06-1	No	No	1.50E-01	U	4.30E-05	U	2.00E-03	U	-		1
Captan	133-06-2	No	No	2.30E-03	U	6.60E-07	U	1.30E-01	U	-		1
Carbaryl	63-25-2	No	No	-		-		1.00E-01	U	-		1
Carbazole	86-74-8	No	No	-		-		-		-		1
Carbofuran	1563-66-2	No	No	-		-		5.00E-03	U	-		1
Carbon Disulfide	75-15-0	No	Yes	-		-		1.00E-01	U	7.00E-01	U	1
Carbon Tetrachloride	56-23-5	No	Yes	7.00E-02	U	6.00E-06	U	4.00E-03	U	1.00E-01	U	1
Carbosulfan	55285-14-8	No	No	-		-		1.00E-02	U	-		1
Carboxin	5234-68-4	No	No	-		-		1.00E-01	U	-		1
Catechol	120-80-9	No	No	-		-		-		-		1
Ceric oxide	1306-38-3	No	No	-		-		-		9.00E-04	U	1
Cerium, Stable	7440-45-1	No	No	-		-		-		-		1
Chloral	75-87-6	No	Yes	-		-		-		-		1
Chloral Hydrate	302-17-0	No	Yes	-		-		1.00E-01	U	-		1
Chloramben	133-90-4	No	No	-		-		1.50E-02	U	-		1
Chloramine	127-65-1	No	No	-		-		-		-		1
Chloranil	118-75-2	No	No	4.03E-01	U	-		-		-		1
Chlorate (ClO3) as	14866-68-3	No	No	-		-		-		-		1
Chlordane	12789-03-6	No	Yes	3.50E-01	U	1.00E-04	U	5.00E-04	U	7.00E-04	U	1
Chlordane (alpha)	5103-71-9	No	Yes	-		-		-		-		1
Chlordane (gamma)	5103-74-2	No	Yes	-		-		-		-		1
Chlordecone (Kepone)	143-50-0	No	No	1.00E+01	U	4.60E-03	U	3.00E-04	U	-		1
Chlorfenvinphos	470-90-6	No	No	-		-		7.00E-04	U	-		1
Chloride	16887-00-6	No	No	-		-		-		-		1
Chlorimuron, Ethyl-	90982-32-4	No	No	-		-		2.00E-02	U	-		1
Chlorinated Hydrocarbons (total)	NA	No	No	-		-		-		-		1
Chlorine	7782-50-5	No	Yes	-		-		1.00E-01	U	1.45E-04	U	1
Chlorine Dioxide	10049-04-4	No	Yes	-		-		3.00E-02	U	2.00E-04	U	1
Chlorite	14998-27-7	No	No	-		-		-		-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Calcium Chlorate	10137-74-3	-	1	-	-	3.23E+09	-	-	-	-	-
Calcium Chromate	13765-19-0	-	1	-	-	3.23E+09	4.13E+02	-	5.51E+04	4.10E+02	5.90E+04
Calcium Cyanide	592-01-8	-	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Calcium pyrophosphate	7790-76-3	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Caprolactam	105-60-2	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+06
Captafol	2425-06-1	0.1	1	-	-	3.23E+09	1.38E+03	1.09E+04	1.92E+08	1.22E+03	5.90E+03
Captan	133-06-2	0.1	1	-	-	3.23E+09	8.98E+04	7.11E+05	1.25E+10	7.97E+04	3.83E+05
Carbaryl	63-25-2	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Carbazole	86-74-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Carbofuran	1563-66-2	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Carbon Disulfide	75-15-0	-	1	1.61E+03	7.38E+02	3.23E+09	-	-	-	-	2.95E+05
Carbon Tetrachloride	56-23-5	-	1	2.06E+03	4.58E+02	3.23E+09	2.95E+03	-	8.78E+02	6.76E+02	1.18E+04
Carbosulfan	55285-14-8	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Carboxin	5234-68-4	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Catechol	120-80-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Ceric oxide	1306-38-3	-	1	-	-	3.23E+09	-	-	-	-	-
Cerium, Stable	7440-45-1	-	1	-	-	3.23E+09	-	-	-	-	-
Chloral	75-87-6	-	1	2.14E+05	3.39E+03	3.23E+09	-	-	-	-	-
Chloral Hydrate	302-17-0	-	1	2.02E+05	-	3.23E+09	-	-	-	-	2.95E+05
Chloramben	133-90-4	0.1	1	-	-	3.23E+09	-	-	-	-	4.42E+04
Chloramine	127-65-1	-	1	-	-	3.23E+09	-	-	-	-	-
Chloranil	118-75-2	0.1	1	-	-	3.23E+09	5.12E+02	4.06E+03	-	4.55E+02	-
Chlorate (ClO3) as	14866-68-3	-	1	-	-	3.23E+09	-	-	-	-	-
Chlordane	12789-03-6	0.04	1	1.49E+06	-	3.23E+09	5.90E+02	1.17E+04	3.81E+04	5.53E+02	1.47E+03
Chlordane (alpha)	5103-71-9	-	1	2.05E+06	-	3.23E+09	-	-	-	-	-
Chlordane (gamma)	5103-74-2	-	1	2.05E+06	-	3.23E+09	-	-	-	-	-
Chlordecone (Kepone)	143-50-0	0.1	1	-	-	3.23E+09	2.06E+01	1.64E+02	1.80E+06	1.83E+01	8.85E+02
Chlorfenvinphos	470-90-6	0.1	1	-	-	3.23E+09	-	-	-	-	2.06E+03
Chloride	16887-00-6	-	1	-	-	3.23E+09	-	-	-	-	-
Chlorimuron, Ethyl-	90982-32-4	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Chlorinated Hydrocarbons (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chlorine	7782-50-5	-	1	1.69E+03	2.78E+03	3.23E+09	-	-	-	-	2.95E+05
Chlorine Dioxide	10049-04-4	-	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Chlorite	14998-27-7	-	1	-	-	3.23E+09	-	-	-	-	-

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Calcium Chlorate	10137-74-3	-	-	-	
Calcium Chromate	13765-19-0	-	2.36E+07	5.88E+04	4.10E+02 ca
Calcium Cyanide	592-01-8	-	-	2.95E+03	2.95E+03 nc
Calcium pyrophosphate	7790-76-3	-	-	1.43E+08	1.43E+08 max
Caprolactam	105-60-2	1.17E+07	2.60E+08	1.30E+06	1.30E+06 max
Captafol	2425-06-1	4.67E+04	-	5.24E+03	1.22E+03 ca**
Captan	133-06-2	3.04E+06	-	3.40E+05	7.97E+04 ca**
Carbaryl	63-25-2	2.34E+06	-	2.62E+05	2.62E+05 max
Carbazole	86-74-8	-	-	-	
Carbofuran	1563-66-2	1.17E+05	-	1.31E+04	1.31E+04 nc
Carbon Disulfide	75-15-0	-	4.12E+04	3.61E+04	3.61E+04 sat
Carbon Tetrachloride	56-23-5	-	7.52E+03	4.59E+03	6.76E+02 sat
Carbosulfan	55285-14-8	2.34E+05	-	2.62E+04	2.62E+04 nc
Carboxin	5234-68-4	2.34E+06	-	2.62E+05	2.62E+05 max
Catechol	120-80-9	-	-	-	
Ceric oxide	1306-38-3	-	1.06E+08	1.06E+08	1.06E+08 max
Cerium, Stable	7440-45-1	-	-	-	
Chloral	75-87-6	-	-	-	
Chloral Hydrate	302-17-0	-	-	2.95E+05	2.95E+05 max
Chloramben	133-90-4	3.51E+05	-	3.93E+04	3.93E+04 nc
Chloramine	127-65-1	-	-	-	
Chloranil	118-75-2	-	-	-	4.55E+02 ca
Chlorate (ClO3) as	14866-68-3	-	-	-	
Chlordane	12789-03-6	2.92E+04	3.81E+04	1.35E+03	5.53E+02 ca**
Chlordane (alpha)	5103-71-9	-	-	-	
Chlordane (gamma)	5103-74-2	-	-	-	
Chlordecone (Kepone)	143-50-0	7.01E+03	-	7.86E+02	1.83E+01 ca*
Chlorfenvinphos	470-90-6	1.64E+04	-	1.83E+03	1.83E+03 nc
Chloride	16887-00-6	-	-	-	
Chlorimuron, Ethyl-	90982-32-4	4.67E+05	-	5.24E+04	5.24E+04 nc
Chlorinated Hydrocarbons (total)	NA	-	-	-	
Chlorine	7782-50-5	-	8.92E+00	8.92E+00	8.92E+00 nc
Chlorine Dioxide	10049-04-4	-	2.36E+07	8.82E+04	8.82E+04 nc
Chlorite	14998-27-7	-	-	-	

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Chlorite (Sodium Salt)	7758-19-2	No	No	-		-		3.00E-02	U	-		1
Chloro-1,1-difluoroethane, 1-	75-68-3	No	Yes	-		-		-		5.00E+01	U	1
Chloro-1,3-butadiene, 2-	126-99-8	No	Yes	-		3.00E-04	U	2.00E-02	U	2.00E-02	U	1
Chloro-2-methylaniline HCl, 4-	3165-93-3	No	No	4.60E-01	U	-		-		-		1
Chloro-2-methylaniline, 4-	95-69-2	No	No	1.00E-01	U	7.70E-05	U	3.00E-03	U	-		1
Chloro-2-methylphenol, 4-	1570-64-5	No	No	-		-		-		-		1
Chloro-4-methylphenol	35421-08-0	No	No	-		-		-		-		1
Chloro-6-fluorophenol, 2-	2040-90-6	No	No	-		-		-		-		1
Chloroacetaldehyde, 2-	107-20-0	No	Yes	2.70E-01	U	-		-		-		1
Chloroacetamide	79-07-2	No	No	-		-		-		-		1
Chloroacetic Acid	79-11-8	No	No	-		-		2.00E-03	U	-		1
Chloroacetophenone, 2-	532-27-4	No	No	-		-		-		3.00E-05	U	1
Chloroaniline	27134-26-5	No	No	-		-		-		-		1
Chloroaniline, 3-	108-42-9	No	No	-		-		-		-		1
Chloroaniline, p-	106-47-8	No	No	2.00E-01	U	-		4.00E-03	U	-		1
Chlorobenzene	108-90-7	No	Yes	-		-		2.00E-02	U	5.00E-02	U	1
Chlorobenzene sulfonic acid, p-	98-66-8	No	No	-		-		-		-		1
Chlorobenzenes (total)	NA	No	No	-		-		-		-		1
Chlorobenzilate	510-15-6	No	No	1.10E-01	U	3.10E-05	U	2.00E-02	U	-		1
Chlorobenzoic Acid, p-	74-11-3	No	No	-		-		3.00E-02	U	-		1
Chlorobenzotrifluoride, 3-nitro-4-	121-17-5	No	Yes	-		-		-		-		1
Chlorobenzotrifluoride, 4-	98-56-6	No	Yes	-		-		3.00E-03	U	3.00E-01	U	1
Chlorobiphenyl, p-	2051-62-9	No	Yes	-		-		-		-		1
Chlorobutane, 1-	109-69-3	No	Yes	-		-		4.00E-02	U	-		1
Chlorobutane, 2-	78-86-4	No	Yes	-		-		-		-		1
Chlorocyclopentadiene	41851-50-7	No	Yes	-		-		-		-		1
Chlorodibromoethane	73506-94-2	No	No	-		-		-		-		1
Chlorodifluoromethane	75-45-6	No	Yes	-		-		-		5.00E+01	U	1
Chloroethanol, 2-	107-07-3	No	Yes	-		-		2.00E-02	U	-		1
Chloroethylvinyl ether, 2-	110-75-8	No	Yes	-		-		-		-		1
Chloroform	67-66-3	No	Yes	3.10E-02	U	2.30E-05	U	1.00E-02	U	9.77E-02	U	1
Chloromethane	74-87-3	No	Yes	-		-		-		9.00E-02	U	1
Chloromethyl Methyl Ether	107-30-2	No	Yes	2.40E+00	U	6.90E-04	U	-		-		1
Chloronaphthalene, Beta-	91-58-7	No	Yes	-		-		8.00E-02	U	-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Chlorite (Sodium Salt)	7758-19-2	-	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Chloro-1,1-difluoroethane, 1-	75-68-3	-	1	1.42E+03	1.14E+03	3.23E+09	-	-	-	-	-
Chloro-1,3-butadiene, 2-	126-99-8	-	1	1.49E+03	7.51E+02	3.23E+09	-	-	1.27E+01	1.27E+01	5.90E+04
Chloro-2-methylaniline HCl, 4-	3165-93-3	0.1	1	-	-	3.23E+09	4.49E+02	3.56E+03	-	3.99E+02	-
Chloro-2-methylaniline, 4-	95-69-2	0.1	1	-	-	3.23E+09	2.06E+03	1.64E+04	1.07E+08	1.83E+03	8.85E+03
Chloro-2-methylphenol, 4-	1570-64-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chloro-4-methylphenol	35421-08-0	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chloro-6-fluorophenol, 2-	2040-90-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chloroacetaldehyde, 2-	107-20-0	-	1	2.56E+04	2.83E+04	3.23E+09	7.65E+02	-	-	7.65E+02	-
Chloroacetamide	79-07-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chloroacetic Acid	79-11-8	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Chloroacetophenone, 2-	532-27-4	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chloroaniline	27134-26-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chloroaniline, 3-	108-42-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chloroaniline, p-	106-47-8	0.1	1	-	-	3.23E+09	1.03E+03	8.18E+03	-	9.17E+02	1.18E+04
Chlorobenzene	108-90-7	-	1	8.90E+03	7.61E+02	3.23E+09	-	-	-	-	5.90E+04
Chlorobenzene sulfonic acid, p-	98-66-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chlorobenzenes (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chlorobenzilate	510-15-6	0.1	1	-	-	3.23E+09	1.88E+03	1.49E+04	2.66E+08	1.67E+03	5.90E+04
Chlorobenzoic Acid, p-	74-11-3	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Chlorobenzotrifluoride, 3-nitro-4-	121-17-5	-	1	2.14E+05	9.07E+01	3.23E+09	-	-	-	-	-
Chlorobenzotrifluoride, 4-	98-56-6	-	1	9.33E+03	1.17E+02	3.23E+09	-	-	-	-	8.85E+03
Chlorobiphenyl, p-	2051-62-9	-	1	1.78E+05	-	3.23E+09	-	-	-	-	-
Chlorobutane, 1-	109-69-3	-	1	2.42E+03	7.29E+02	3.23E+09	-	-	-	-	1.18E+05
Chlorobutane, 2-	78-86-4	-	1	2.01E+03	6.51E+02	3.23E+09	-	-	-	-	-
Chlorocyclopentadiene	41851-50-7	-	1	2.60E+03	9.88E+02	3.23E+09	-	-	-	-	-
Chlorodibromoethane	73506-94-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chlorodifluoromethane	75-45-6	-	1	1.30E+03	1.68E+03	3.23E+09	-	-	-	-	-
Chloroethanol, 2-	107-07-3	-	1	1.08E+05	1.11E+05	3.23E+09	-	-	-	-	5.90E+04
Chloroethylvinyl ether, 2-	110-75-8	-	1	2.21E+03	1.64E+03	3.23E+09	-	-	-	-	-
Chloroform	67-66-3	-	1	3.62E+03	2.54E+03	3.23E+09	6.66E+03	-	4.03E+02	3.80E+02	2.95E+04
Chloromethane	74-87-3	-	1	1.62E+03	1.32E+03	3.23E+09	-	-	-	-	-
Chloromethyl Methyl Ether	107-30-2	-	1	7.35E+03	2.58E+04	3.23E+09	8.60E+01	-	2.72E+01	2.07E+01	-
Chloronaphthalene, Beta-	91-58-7	0.13	1	1.10E+05	-	3.23E+09	-	-	-	-	2.36E+05

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Chlorite (Sodium Salt)	7758-19-2	-	-	8.85E+04	8.85E+04 nc
Chloro-1,1-difluoroethane, 1-	75-68-3	-	2.59E+06	2.59E+06	2.59E+06 sat
Chloro-1,3-butadiene, 2-	126-99-8	-	1.09E+03	1.07E+03	1.27E+01 ca*
Chloro-2-methylaniline HCl, 4-	3165-93-3	-	-	-	3.99E+02 ca
Chloro-2-methylaniline, 4-	95-69-2	7.01E+04	-	7.86E+03	1.83E+03 ca**
Chloro-2-methylphenol, 4-	1570-64-5	-	-	-	
Chloro-4-methylphenol	35421-08-0	-	-	-	
Chloro-6-fluorophenol, 2-	2040-90-6	-	-	-	
Chloroacetaldehyde, 2-	107-20-0	-	-	-	7.65E+02 ca
Chloroacetamide	79-07-2	-	-	-	
Chloroacetic Acid	79-11-8	4.67E+04	-	5.24E+03	5.24E+03 nc
Chloroacetophenone, 2-	532-27-4	-	3.54E+06	3.54E+06	3.54E+06 max
Chloroaniline	27134-26-5	-	-	-	
Chloroaniline, 3-	108-42-9	-	-	-	
Chloroaniline, p-	106-47-8	9.35E+04	-	1.05E+04	9.17E+02 ca*
Chlorobenzene	108-90-7	-	1.62E+04	1.27E+04	1.27E+04 sat
Chlorobenzene sulfonic acid, p-	98-66-8	-	-	-	
Chlorobenzenes (total)	NA	-	-	-	
Chlorobenzilate	510-15-6	4.67E+05	-	5.24E+04	1.67E+03 ca*
Chlorobenzoic Acid, p-	74-11-3	7.01E+05	-	7.86E+04	7.86E+04 nc
Chlorobenzotrifluoride, 3-nitro-4-	121-17-5	-	-	-	
Chlorobenzotrifluoride, 4-	98-56-6	-	1.02E+05	8.14E+03	8.14E+03 sat
Chlorobiphenyl, p-	2051-62-9	-	-	-	
Chlorobutane, 1-	109-69-3	-	-	1.18E+05	1.18E+05 sat
Chlorobutane, 2-	78-86-4	-	-	-	
Chlorocyclopentadiene	41851-50-7	-	-	-	
Chlorodibromoethane	73506-94-2	-	-	-	
Chlorodifluoromethane	75-45-6	-	2.37E+06	2.37E+06	2.37E+06 sat
Chloroethanol, 2-	107-07-3	-	-	5.90E+04	5.90E+04 nc
Chloroethylvinyl ether, 2-	110-75-8	-	-	-	
Chloroform	67-66-3	-	1.29E+04	8.99E+03	3.80E+02 ca*
Chloromethane	74-87-3	-	5.32E+03	5.32E+03	5.32E+03 sat
Chloromethyl Methyl Ether	107-30-2	-	-	-	2.07E+01 ca
Chloronaphthalene, Beta-	91-58-7	1.44E+06	-	2.03E+05	2.03E+05 max

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Chloronaphthalene, alpha-	90-13-1	No	Yes	-		-		-		-		1
Chloronitrobenzene, o-	88-73-3	No	No	3.00E-01	U	-		3.00E-03	U	1.00E-05	U	1
Chloronitrobenzene, p-	100-00-5	No	No	6.30E-03	U	-		1.00E-03	U	6.00E-04	U	1
Chlorophenol, 2-	95-57-8	No	Yes	-		-		5.00E-03	U	-		1
Chlorophenol, 3-	108-43-0	No	No	-		-		-		-		1
Chlorophenol, 4-	106-48-9	No	No	-		-		-		-		1
Chlorophenols (each)	NA	No	No	-		-		-		-		1
Chlorophenols (total)	NA	No	No	-		-		-		-		1
Chlorophenyl Methyl Sulfide, p-	123-09-1	No	Yes	-		-		-		-		1
Chlorophenyl Methyl Sulfoxide	934-73-6	No	No	-		-		-		-		1
Chlorophenyl phenyl ether, 4-	7005-72-3	No	Yes	-		-		-		-		1
Chloropicrin	76-06-2	No	Yes	-		-		-		4.00E-04	U	1
Chloropropane, 2-	75-29-6	No	Yes	-		-		-		-		1
Chlorothalonil	1897-45-6	No	No	3.10E-03	U	8.90E-07	U	1.50E-02	U	-		1
Chlorotoluene, o-	95-49-8	No	Yes	-		-		2.00E-02	U	-		1
Chlorotoluene, p-	106-43-4	No	Yes	-		-		2.00E-02	U	-		1
Chlorozotocin	54749-90-5	No	No	2.40E+02	U	6.90E-02	U	-		-		1
Chlorpropham	101-21-3	No	No	-		-		2.00E-01	U	-		1
Chlorpyrifos	2921-88-2	No	No	-		-		1.00E-03	U	-		1
Chlorpyrifos Methyl	5598-13-0	No	No	-		-		1.00E-02	U	-		1
Chlorsulfuron	64902-72-3	No	No	-		-		5.00E-02	U	-		1
Chlorthiophos	60238-56-4	No	No	-		-		8.00E-04	U	-		1
Chromium(III), Insoluble Salts	16065-83-1	No	No	-		-		1.50E+00	U	-		0.013
Chromium(VI)	18540-29-9	Yes	No	5.00E-01	U	8.40E-02	U	3.00E-03	U	1.00E-04	U	0.025
Chromium, Total	7440-47-3	No	No	-		-		-		-		0.013
Chrysene	218-01-9	Yes	No	7.30E-03	U	1.10E-05	U	-		-		1
Cobalt	7440-48-4	No	No	-		9.00E-03	U	3.00E-04	U	6.00E-06	U	1
Complex Mixtures of Aliphatic and Aromatic Hydrocarbons	NA	No	No	-		-		-		-		1
Copper	7440-50-8	No	No	-		-		4.00E-02	U	-		1
Copper Cyanide	544-92-3	No	No	-		-		5.00E-03	U	-		1
Coronene	191-07-1	No	No	-		-		-		-		1
Creosote	8001-58-9	No	No	-		-		-		-		1
Cresol, m-	108-39-4	No	No	-		-		5.00E-02	U	6.00E-01	U	1

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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Chloronaphthalene, alpha-	90-13-1	-	1	1.05E+05	2.66E+02	3.23E+09	-	-	-	-	-
Chloronitrobenzene, o-	88-73-3	0.1	1	-	-	3.23E+09	6.88E+02	5.45E+03	-	6.11E+02	8.85E+03
Chloronitrobenzene, p-	100-00-5	0.1	1	-	-	3.23E+09	3.28E+04	2.60E+05	-	2.91E+04	2.95E+03
Chlorophenol, 2-	95-57-8	-	1	1.71E+05	2.19E+04	3.23E+09	-	-	-	-	1.47E+04
Chlorophenol, 3-	108-43-0	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chlorophenol, 4-	106-48-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chlorophenols (each)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chlorophenols (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chlorophenyl Methyl Sulfide, p-	123-09-1	-	1	6.97E+04	2.73E+02	3.23E+09	-	-	-	-	-
Chlorophenyl Methyl Sulfoxide	934-73-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Chlorophenyl phenyl ether, 4-	7005-72-3	-	1	1.83E+05	-	3.23E+09	-	-	-	-	-
Chloropicrin	76-06-2	-	1	6.46E+03	6.17E+02	3.23E+09	-	-	-	-	-
Chloropropane, 2-	75-29-6	-	1	1.79E+03	1.32E+03	3.23E+09	-	-	-	-	-
Chlorothalonil	1897-45-6	0.1	1	-	-	3.23E+09	6.66E+04	5.28E+05	9.28E+09	5.91E+04	4.42E+04
Chlorotoluene, o-	95-49-8	-	1	1.12E+04	9.07E+02	3.23E+09	-	-	-	-	5.90E+04
Chlorotoluene, p-	106-43-4	-	1	1.01E+04	2.53E+02	3.23E+09	-	-	-	-	5.90E+04
Chlorozotocin	54749-90-5	0.1	1	-	-	3.23E+09	8.60E-01	6.82E+00	1.20E+05	7.64E-01	-
Chlorpropham	101-21-3	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+05
Chlorpyrifos	2921-88-2	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Chlorpyrifos Methyl	5598-13-0	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Chlorsulfuron	64902-72-3	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Chlorthiophos	60238-56-4	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+03
Chromium(III), Insoluble Salts	16065-83-1	-	1	-	-	3.23E+09	-	-	-	-	4.42E+06
Chromium(VI)	18540-29-9	-	1	-	-	3.23E+09	4.13E+02	-	9.83E+04	4.11E+02	8.85E+03
Chromium, Total	7440-47-3	-	1	-	-	3.23E+09	-	-	-	-	-
Chrysene	218-01-9	0.13	1	-	-	3.23E+09	2.83E+04	1.72E+05	7.51E+08	2.43E+04	-
Cobalt	7440-48-4	-	1	-	-	3.23E+09	-	-	9.18E+05	9.18E+05	8.85E+02
Complex Mixtures of Aliphatic and Aromatic Hydrocarbons	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Copper	7440-50-8	-	1	-	-	3.23E+09	-	-	-	-	1.18E+05
Copper Cyanide	544-92-3	-	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Coronene	191-07-1	0.13	1	-	-	3.23E+09	-	-	-	-	-
Creosote	8001-58-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Cresol, m-	108-39-4	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+05

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Chloronaphthalene, alpha-	90-13-1	-	-	-	
Chloronitrobenzene, o-	88-73-3	7.01E+04	1.18E+06	7.81E+03	6.11E+02 ca*
Chloronitrobenzene, p-	100-00-5	2.34E+04	7.08E+07	2.62E+03	2.62E+03 nc
Chlorophenol, 2-	95-57-8	-	-	1.47E+04	1.47E+04 nc
Chlorophenol, 3-	108-43-0	-	-	-	
Chlorophenol, 4-	106-48-9	-	-	-	
Chlorophenols (each)	NA	-	-	-	
Chlorophenols (total)	NA	-	-	-	
Chlorophenyl Methyl Sulfide, p-	123-09-1	-	-	-	
Chlorophenyl Methyl Sulfoxide	934-73-6	-	-	-	
Chlorophenyl phenyl ether, 4-	7005-72-3	-	-	-	
Chloropicrin	76-06-2	-	9.43E+01	9.43E+01	9.43E+01 nc
Chloropropane, 2-	75-29-6	-	-	-	
Chlorothalonil	1897-45-6	3.51E+05	-	3.93E+04	3.93E+04 nc
Chlorotoluene, o-	95-49-8	-	-	5.90E+04	5.90E+04 sat
Chlorotoluene, p-	106-43-4	-	-	5.90E+04	5.90E+04 sat
Chlorozotocin	54749-90-5	-	-	-	7.64E-01 ca
Chlorpropham	101-21-3	4.67E+06	-	5.24E+05	5.24E+05 max
Chlorpyrifos	2921-88-2	2.34E+04	-	2.62E+03	2.62E+03 nc
Chlorpyrifos Methyl	5598-13-0	2.34E+05	-	2.62E+04	2.62E+04 nc
Chlorsulfuron	64902-72-3	1.17E+06	-	1.31E+05	1.31E+05 max
Chlorthiophos	60238-56-4	1.87E+04	-	2.10E+03	2.10E+03 nc
Chromium(III), Insoluble Salts	16065-83-1	-	-	4.42E+06	4.42E+06 max
Chromium(VI)	18540-29-9	-	1.18E+07	8.84E+03	4.11E+02 ca*
Chromium, Total	7440-47-3	-	-	-	
Chrysene	218-01-9	-	-	-	2.43E+04 ca
Cobalt	7440-48-4	-	7.08E+05	8.84E+02	8.84E+02 nc
Complex Mixtures of Aliphatic and Aromatic Hydrocarbons	NA	-	-	-	
Copper	7440-50-8	-	-	1.18E+05	1.18E+05 max
Copper Cyanide	544-92-3	-	-	1.47E+04	1.47E+04 nc
Coronene	191-07-1	-	-	-	
Creosote	8001-58-9	-	-	-	
Cresol, m-	108-39-4	1.17E+06	7.08E+10	1.31E+05	1.31E+05 max

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Cresol, o-	95-48-7	No	No	-		-		5.00E-02	U	6.00E-01	U	1
Cresol, p-	106-44-5	No	No	-		-		1.00E-01	U	6.00E-01	U	1
Cresol, p-chloro-m-	59-50-7	No	No	-		-		1.00E-01	U	-		1
Cresols	1319-77-3	No	No	-		-		1.00E-01	U	6.00E-01	U	1
Crotonaldehyde	4170-30-3	No	Yes	-		-		-		-		1
Crotonaldehyde, trans-	123-73-9	No	Yes	1.90E+00	U	-		1.00E-03	U	-		1
Cumene	98-82-8	No	Yes	-		-		1.00E-01	U	4.00E-01	U	1
Cupferron	135-20-6	No	No	2.20E-01	U	6.30E-05	U	-		-		1
Cyanazine	21725-46-2	No	No	8.40E-01	U	-		2.00E-03	U	-		1
Cyanide (CN-)	57-12-5	No	Yes	-		-		6.00E-04	U	8.00E-04	U	1
Cyanide (total complex)	NA	No	No	-		-		-		-		1
Cyanogen	460-19-5	No	Yes	-		-		1.00E-03	U	-		1
Cyanogen Bromide	506-68-3	No	Yes	-		-		9.00E-02	U	-		1
Cyanogen Chloride	506-77-4	No	Yes	-		-		5.00E-02	U	-		1
Cyclohexane	110-82-7	No	Yes	-		-		-		6.00E+00	U	1
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	No	No	2.30E-02	U	-		-		-		1
Cyclohexanone	108-94-1	No	Yes	-		-		5.00E+00	U	7.00E-01	U	1
Cyclohexene	110-83-8	No	Yes	-		-		5.00E-03	U	1.00E+00	U	1
Cyclohexylamine	108-91-8	No	Yes	-		-		2.00E-01	U	-		1
Cyclopentadiene	542-92-7	No	Yes	-		-		-		-		1
Cyhalothrin/karate	68085-85-8	No	No	-		-		5.00E-03	U	-		1
Cypermethrin	52315-07-8	No	No	-		-		1.00E-02	U	-		1
Cyromazine	66215-27-8	No	No	-		-		7.50E-03	U	-		1
DDD	72-54-8	No	No	2.40E-01	U	6.90E-05	U	-		-		1
DDD, o,p'-	53-19-0	No	No	-		-		-		-		1
DDE, p,p'-	72-55-9	No	Yes	3.40E-01	U	9.70E-05	U	-		-		1
DDT	50-29-3	No	No	3.40E-01	U	9.70E-05	U	5.00E-04	U	-		1
DDT, o,p'-	789-02-6	No	No	-		-		-		-		1
DDT/DDE/DDD (total)	NA	No	No	-		-		-		-		1
Dacthal	1861-32-1	No	No	-		-		1.00E-02	U	-		1
Dalapon	75-99-0	No	No	-		-		3.00E-02	U	-		1
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	No	No	7.00E-04	U	-		7.00E-03	U	-		1
Decane	124-18-5	No	Yes	-		-		-		-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Cresol, o-	95-48-7	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Cresol, p-	106-44-5	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Cresol, p-chloro-m-	59-50-7	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Cresols	1319-77-3	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Crotonaldehyde	4170-30-3	-	1	2.61E+04	2.00E+04	3.23E+09	-	-	-	-	-
Crotonaldehyde, trans-	123-73-9	-	1	2.61E+04	1.66E+04	3.23E+09	1.09E+02	-	-	1.09E+02	2.95E+03
Cumene	98-82-8	-	1	8.56E+03	2.68E+02	3.23E+09	-	-	-	-	2.95E+05
Cupferron	135-20-6	0.1	1	-	-	3.23E+09	9.38E+02	7.44E+03	1.31E+08	8.33E+02	-
Cyanazine	21725-46-2	0.1	1	-	-	3.23E+09	2.46E+02	1.95E+03	-	2.18E+02	5.90E+03
Cyanide (CN-)	57-12-5	-	1	6.42E+04	1.00E+07	3.23E+09	-	-	-	-	1.77E+03
Cyanide (total complex)	NA	-	1	-	-	3.23E+09	-	-	-	-	-
Cyanogen	460-19-5	-	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Cyanogen Bromide	506-68-3	-	1	-	-	3.23E+09	-	-	-	-	2.65E+05
Cyanogen Chloride	506-77-4	-	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Cyclohexane	110-82-7	-	1	1.44E+03	1.18E+02	3.23E+09	-	-	-	-	-
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	0.1	1	-	-	3.23E+09	8.98E+03	7.11E+04	-	7.97E+03	-
Cyclohexanone	108-94-1	-	1	5.75E+04	5.11E+03	3.23E+09	-	-	-	-	1.47E+07
Cyclohexene	110-83-8	-	1	2.02E+03	2.83E+02	3.23E+09	-	-	-	-	1.47E+04
Cyclohexylamine	108-91-8	-	1	1.03E+05	2.93E+05	3.23E+09	-	-	-	-	5.90E+05
Cyclopentadiene	542-92-7	-	1	2.05E+03	1.34E+03	3.23E+09	-	-	-	-	-
Cyhalothrin/karate	68085-85-8	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Cypermethrin	52315-07-8	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Cyromazine	66215-27-8	0.1	1	-	-	3.23E+09	-	-	-	-	2.21E+04
DDD	72-54-8	0.1	1	-	-	3.23E+09	8.60E+02	6.82E+03	1.20E+08	7.64E+02	-
DDD, o,p'-	53-19-0	0.1	1	-	-	3.23E+09	-	-	-	-	-
DDE, p,p'-	72-55-9	-	1	2.91E+06	-	3.23E+09	6.07E+02	-	7.65E+04	6.02E+02	-
DDT	50-29-3	0.03	1	-	-	3.23E+09	6.07E+02	1.60E+04	8.52E+07	5.85E+02	1.47E+03
DDT, o,p'-	789-02-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
DDT/DDE/DDD (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dacthal	1861-32-1	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Dalapon	75-99-0	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	0.1	1	-	-	3.23E+09	2.95E+05	2.34E+06	-	2.62E+05	2.06E+04
Decane	124-18-5	-	1	1.56E+03	2.53E+00	3.23E+09	-	-	-	-	-

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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Cresol, o-	95-48-7	1.17E+06	7.08E+10	1.31E+05	1.31E+05 max
Cresol, p-	106-44-5	2.34E+06	7.08E+10	2.62E+05	2.62E+05 max
Cresol, p-chloro-m-	59-50-7	2.34E+06	-	2.62E+05	2.62E+05 max
Cresols	1319-77-3	2.34E+06	7.08E+10	2.62E+05	2.62E+05 max
Crotonaldehyde	4170-30-3	-	-	-	
Crotonaldehyde, trans-	123-73-9	-	-	2.95E+03	1.09E+02 ca*
Cumene	98-82-8	-	1.25E+05	8.78E+04	8.78E+04 sat
Cupferron	135-20-6	-	-	-	8.33E+02 ca
Cyanazine	21725-46-2	4.67E+04	-	5.24E+03	2.18E+02 ca*
Cyanide (CN-)	57-12-5	-	1.88E+03	9.11E+02	9.11E+02 nc
Cyanide (total complex)	NA	-	-	-	
Cyanogen	460-19-5	-	-	2.95E+03	2.95E+03 nc
Cyanogen Bromide	506-68-3	-	-	2.65E+05	2.65E+05 max
Cyanogen Chloride	506-77-4	-	-	1.47E+05	1.47E+05 max
Cyclohexane	110-82-7	-	3.15E+05	3.15E+05	3.15E+05 sat
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	-	-	-	7.97E+03 ca
Cyclohexanone	108-94-1	-	1.47E+06	1.34E+06	1.34E+06 sat
Cyclohexene	110-83-8	-	7.37E+04	1.23E+04	1.23E+04 sat
Cyclohexylamine	108-91-8	-	-	5.90E+05	5.90E+05 sat
Cyclopentadiene	542-92-7	-	-	-	
Cyhalothrin/karate	68085-85-8	1.17E+05	-	1.31E+04	1.31E+04 nc
Cypermethrin	52315-07-8	2.34E+05	-	2.62E+04	2.62E+04 nc
Cyromazine	66215-27-8	1.75E+05	-	1.96E+04	1.96E+04 nc
DDD	72-54-8	-	-	-	7.64E+02 ca
DDD, o,p'-	53-19-0	-	-	-	
DDE, p,p'-	72-55-9	-	-	-	6.02E+02 ca
DDT	50-29-3	3.90E+04	-	1.42E+03	5.85E+02 ca**
DDT, o,p'-	789-02-6	-	-	-	
DDT/DDE/DDD (total)	NA	-	-	-	
Dacthal	1861-32-1	2.34E+05	-	2.62E+04	2.62E+04 nc
Dalapon	75-99-0	7.01E+05	-	7.86E+04	7.86E+04 nc
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'-(BDE-209)	1163-19-5	1.64E+05	-	1.83E+04	1.83E+04 nc
Decane	124-18-5	-	-	-	

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Decanol, n-	112-30-1	No	Yes	-		-		-		-		1
Deltamethrin	52918-63-5	No	No	-		-		-		-		1
Demeton	8065-48-3	No	No	-		-		4.00E-05	U	-		1
Di(2-ethylhexyl)adipate	103-23-1	No	No	1.20E-03	U	-		6.00E-01	U	-		1
Di-n-butyltin bis(2-ethylhexanoate)	2781-10-4	No	Yes	-		-		-		-		1
Di-n-butyltin bis(methyl maleate)	15546-11-9	No	No	-		-		-		-		1
Di-n-butyltin bis(n-butyl maleate)	15546-16-4	No	No	-		-		-		-		1
Di-n-butyltin dilaurate	77-58-7	No	Yes	-		-		-		-		1
Di-n-butyltin distearate	5847-55-2	No	Yes	-		-		-		-		1
Di-n-hexylphthalate	84-75-3	No	Yes	-		-		-		-		1
Diallate	2303-16-4	No	No	6.10E-02	U	-		-		-		1
Diammonium phosphate	7783-28-0	No	No	-		-		4.86E+01	U	-		1
Diazinon	333-41-5	No	No	-		-		7.00E-04	U	-		1
Dibenz[a,h]anthracene	53-70-3	Yes	No	7.30E+00	U	1.20E-03	U	-		-		1
Dibenzo(a,e)pyrene	192-65-4	No	No	1.20E+01	U	1.10E-03	U	-		-		1
Dibenzofuran	132-64-9	No	Yes	-		-		1.00E-03	U	-		1
Dibenzothiophene	132-65-0	No	Yes	-		-		1.00E-02	U	-		1
Dibromo-3-chloropropane, 1,2-	96-12-8	Yes	Yes	8.00E-01	U	6.00E-03	U	2.00E-04	U	2.00E-04	U	1
Dibromoacetic acid	631-64-1	No	No	-		-		-		-		1
Dibromobenzene, 1,3-	108-36-1	No	Yes	-		-		4.00E-04	U	-		1
Dibromobenzene, 1,4-	106-37-6	No	Yes	-		-		1.00E-02	U	-		1
Dibromochloromethane	124-48-1	No	Yes	8.40E-02	U	2.70E-05	U	2.00E-02	U	-		1
Dibromodichloromethane	594-18-3	No	Yes	-		-		-		-		1
Dibromodiphenyl Ether, p,p'-	2050-47-7	No	Yes	-		-		-		-		1
Dibromoethane, 1,2-	106-93-4	No	Yes	2.00E+00	U	6.00E-04	U	9.00E-03	U	9.00E-03	U	1
Dibromomethane (Methylene Bromide)	74-95-3	No	Yes	-		-		1.00E-02	U	4.00E-03	U	1
Dibutoxy di-n-butyltin	3349-36-8	No	Yes	-		-		-		-		1
Dibutyl Phthalate	84-74-2	No	No	-		-		1.00E-01	U	-		1
Dibutylbis((1-oxoisooctyl)oxy)stannane	85702-74-5	No	No	-		-		-		-		1
Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	95873-60-2	No	Yes	-		-		-		-		1
Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	85391-79-3	No	No	-		-		-		-		1
Dibutylbis(palmitoyloxy)stannane	13323-63-2	No	Yes	-		-		-		-		1

Site-specific
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Decanol, n-	112-30-1	-	1	8.71E+04	3.19E+01	3.23E+09	-	-	-	-	-
Deltamethrin	52918-63-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Demeton	8065-48-3	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+02
Di(2-ethylhexyl)adipate	103-23-1	0.1	1	-	-	3.23E+09	1.72E+05	1.36E+06	-	1.53E+05	1.77E+06
Di-n-butyltin bis(2-ethylhexanoate)	2781-10-4	-	1	1.29E+05	-	3.23E+09	-	-	-	-	-
Di-n-butyltin bis(methyl maleate)	15546-11-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Di-n-butyltin bis(n-butyl maleate)	15546-16-4	0.1	1	-	-	3.23E+09	-	-	-	-	-
Di-n-butyltin dilaurate	77-58-7	-	1	4.40E+05	-	3.23E+09	-	-	-	-	-
Di-n-butyltin distearate	5847-55-2	-	1	2.33E+06	-	3.23E+09	-	-	-	-	-
Di-n-hexylphthalate	84-75-3	-	1	1.33E+06	3.85E+00	3.23E+09	-	-	-	-	-
Diallate	2303-16-4	0.1	1	-	-	3.23E+09	3.38E+03	2.68E+04	-	3.01E+03	-
Diammonium phosphate	7783-28-0	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Diazinon	333-41-5	0.1	1	-	-	3.23E+09	-	-	-	-	2.06E+03
Dibenz[a,h]anthracene	53-70-3	0.13	1	-	-	3.23E+09	2.83E+01	1.72E+02	6.88E+06	2.43E+01	-
Dibenzo(a,e)pyrene	192-65-4	0.13	1	-	-	3.23E+09	1.72E+01	1.05E+02	7.51E+06	1.48E+01	-
Dibenzofuran	132-64-9	0.03	1	2.70E+05	-	3.23E+09	-	-	-	-	2.95E+03
Dibenzothiophene	132-65-0	-	1	7.24E+05	-	3.23E+09	-	-	-	-	2.95E+04
Dibromo-3-chloropropane, 1,2-	96-12-8	-	1	4.42E+04	9.80E+02	3.23E+09	2.58E+02	-	1.88E+01	1.75E+01	5.90E+02
Dibromoacetic acid	631-64-1	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dibromobenzene, 1,3-	108-36-1	-	1	2.66E+04	1.59E+02	3.23E+09	-	-	-	-	1.18E+03
Dibromobenzene, 1,4-	106-37-6	-	1	3.03E+04	-	3.23E+09	-	-	-	-	2.95E+04
Dibromochloromethane	124-48-1	-	1	1.10E+04	8.02E+02	3.23E+09	2.46E+03	-	1.04E+03	7.30E+02	5.90E+04
Dibromodichloromethane	594-18-3	-	1	3.20E+04	-	3.23E+09	-	-	-	-	-
Dibromodiphenyl Ether, p,p'-	2050-47-7	-	1	5.22E+05	-	3.23E+09	-	-	-	-	-
Dibromoethane, 1,2-	106-93-4	-	1	1.19E+04	1.34E+03	3.23E+09	1.03E+02	-	5.08E+01	3.40E+01	2.65E+04
Dibromomethane (Methylene Bromide)	74-95-3	-	1	7.79E+03	2.82E+03	3.23E+09	-	-	-	-	2.95E+04
Dibutoxy di-n-butyltin	3349-36-8	-	1	8.25E+04	-	3.23E+09	-	-	-	-	-
Dibutyl Phthalate	84-74-2	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Dibutylbis((1-oxoisooctyl)oxy)stannane	85702-74-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	95873-60-2	-	1	3.40E+06	-	3.23E+09	-	-	-	-	-
Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	85391-79-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dibutylbis(palmitoyloxy)stannane	13323-63-2	-	1	1.20E+06	-	3.23E+09	-	-	-	-	-

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Decanol, n-	112-30-1	-	-	-	
Deltamethrin	52918-63-5	-	-	-	
Demeton	8065-48-3	9.35E+02	-	1.05E+02	1.05E+02 nc
Di(2-ethylhexyl)adipate	103-23-1	1.40E+07	-	1.57E+06	1.53E+05 max
Di-n-butyltin bis(2-ethylhexanoate)	2781-10-4	-	-	-	
Di-n-butyltin bis(methyl maleate)	15546-11-9	-	-	-	
Di-n-butyltin bis(n-butyl maleate)	15546-16-4	-	-	-	
Di-n-butyltin dilaurate	77-58-7	-	-	-	
Di-n-butyltin distearate	5847-55-2	-	-	-	
Di-n-hexylphthalate	84-75-3	-	-	-	
Diallate	2303-16-4	-	-	-	3.01E+03 ca
Diammonium phosphate	7783-28-0	-	-	1.43E+08	1.43E+08 max
Diazinon	333-41-5	1.64E+04	-	1.83E+03	1.83E+03 nc
Dibenz[a,h]anthracene	53-70-3	-	-	-	2.43E+01 ca
Dibenzo(a,e)pyrene	192-65-4	-	-	-	1.48E+01 ca
Dibenzofuran	132-64-9	7.79E+04	-	2.84E+03	2.84E+03 nc
Dibenzothiophene	132-65-0	-	-	2.95E+04	2.95E+04 nc
Dibromo-3-chloropropane, 1,2-	96-12-8	-	3.22E+02	2.08E+02	1.75E+01 ca*
Dibromoacetic acid	631-64-1	-	-	-	
Dibromobenzene, 1,3-	108-36-1	-	-	1.18E+03	1.18E+03 sat
Dibromobenzene, 1,4-	106-37-6	-	-	2.95E+04	2.95E+04 nc
Dibromochloromethane	124-48-1	-	-	5.90E+04	7.30E+02 ca*
Dibromodichloromethane	594-18-3	-	-	-	
Dibromodiphenyl Ether, p,p'-	2050-47-7	-	-	-	
Dibromoethane, 1,2-	106-93-4	-	3.92E+03	3.41E+03	3.40E+01 ca
Dibromomethane (Methylene Bromide)	74-95-3	-	1.14E+03	1.09E+03	1.09E+03 nc
Dibutoxy di-n-butyltin	3349-36-8	-	-	-	
Dibutyl Phthalate	84-74-2	2.34E+06	-	2.62E+05	2.62E+05 max
Dibutylbis((1-oxoisooctyl)oxy)stannane	85702-74-5	-	-	-	
Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	95873-60-2	-	-	-	
Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	85391-79-3	-	-	-	
Dibutylbis(palmitoyloxy)stannane	13323-63-2	-	-	-	

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR UTILITY WORKER
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Dibutyltin Compounds	NA	No	No	-		-		3.00E-04	U	-		1
Dibutyltin diacetate	1067-33-0	No	Yes	-		-		-		-		1
Dibutyltin dichloride	683-18-1	No	Yes	-		-		-		-		1
Dibutyltin oxide	818-08-6	No	Yes	-		-		-		-		1
Dicalcium phosphate	7757-93-9	No	No	-		-		4.86E+01	U	-		1
Dicamba	1918-00-9	No	No	-		-		3.00E-02	U	-		1
Dichloro-2-butene, 1,4-	764-41-0	No	Yes	-		4.20E-03	U	-		-		1
Dichloro-2-butene, cis-1,4-	1476-11-5	No	Yes	-		4.20E-03	U	-		-		1
Dichloro-2-butene, trans-1,4-	110-57-6	No	Yes	-		4.20E-03	U	-		-		1
Dichloroacetic Acid	79-43-6	No	No	5.00E-02	U	-		4.00E-03	U	-		1
Dichloroaniline, 2,4-	554-00-7	No	No	-		-		-		-		1
Dichloroaniline, 3,4-	95-76-1	No	Yes	-		-		-		-		1
Dichlorobenzene	25321-22-6	No	Yes	-		-		-		-		1
Dichlorobenzene, 1,2-	95-50-1	No	Yes	-		-		9.00E-02	U	2.00E-01	U	1
Dichlorobenzene, 1,3-	541-73-1	No	Yes	-		-		-		-		1
Dichlorobenzene, 1,4-	106-46-7	No	Yes	5.40E-03	U	1.10E-05	U	7.00E-02	U	8.00E-01	U	1
Dichlorobenzidine, 3,3'-	91-94-1	No	No	4.50E-01	U	3.40E-04	U	-		-		1
Dichlorobenzoic acid, -3,5	51-36-5	No	No	-		-		-		-		1
Dichlorobenzophenone, 4,4'-	90-98-2	No	No	-		-		9.00E-03	U	-		1
Dichlorobenzotrifluoride, 3,4-	328-84-7	No	Yes	-		-		-		-		1
Dichlorodifluoromethane	75-71-8	No	Yes	-		-		2.00E-01	U	1.00E-01	U	1
Dichlorodiisopropyl ether, 2,2'-	39638-32-9	No	Yes	-		-		-		-		1
Dichloroethane, 1,1-	75-34-3	No	Yes	5.70E-03	U	1.60E-06	U	2.00E-01	U	-		1
Dichloroethane, 1,2-	107-06-2	No	Yes	9.10E-02	U	2.60E-05	U	6.00E-03	U	7.00E-03	U	1
Dichloroethylene, 1,1-	75-35-4	No	Yes	-		-		5.00E-02	U	2.00E-01	U	1
Dichloroethylene, 1,2-cis-	156-59-2	No	Yes	-		-		2.00E-03	U	-		1
Dichloroethylene, 1,2-trans-	156-60-5	No	Yes	-		-		2.00E-02	U	-		1
Dichlorophenol, 2,3-	576-24-9	Yes	No	-		-		-		-		1
Dichlorophenol, 2,4-	120-83-2	No	No	-		-		3.00E-03	U	-		1
Dichlorophenol, 2,5-	583-78-8	No	No	-		-		-		-		1
Dichlorophenol, 2,6-	87-65-0	No	No	-		-		-		-		1
Dichlorophenol, 3,4-	95-77-2	No	No	-		-		-		-		1
Dichlorophenols (total)	NA	No	No	-		-		-		-		1
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	No	No	-		-		1.00E-02	U	-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Dibutyltin Compounds	NA	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+02
Dibutyltin diacetate	1067-33-0	-	1	1.75E+04	1.86E+00	3.23E+09	-	-	-	-	-
Dibutyltin dichloride	683-18-1	-	1	3.93E+04	-	3.23E+09	-	-	-	-	-
Dibutyltin oxide	818-08-6	-	1	-	-	3.23E+09	-	-	-	-	-
Dicalcium phosphate	7757-93-9	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Dicamba	1918-00-9	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Dichloro-2-butene, 1,4-	764-41-0	-	1	1.54E+04	5.20E+02	3.23E+09	-	-	9.35E+00	9.35E+00	-
Dichloro-2-butene, cis-1,4-	1476-11-5	-	1	1.54E+04	5.20E+02	3.23E+09	-	-	9.35E+00	9.35E+00	-
Dichloro-2-butene, trans-1,4-	110-57-6	-	1	1.54E+04	7.63E+02	3.23E+09	-	-	9.36E+00	9.36E+00	-
Dichloroacetic Acid	79-43-6	0.1	1	-	-	3.23E+09	4.13E+03	3.27E+04	-	3.67E+03	1.18E+04
Dichloroaniline, 2,4-	554-00-7	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dichloroaniline, 3,4-	95-76-1	-	1	1.39E+05	-	3.23E+09	-	-	-	-	-
Dichlorobenzene	25321-22-6	-	1	1.61E+04	1.93E+02	3.23E+09	-	-	-	-	-
Dichlorobenzene, 1,2-	95-50-1	-	1	1.61E+04	3.76E+02	3.23E+09	-	-	-	-	2.65E+05
Dichlorobenzene, 1,3-	541-73-1	-	1	1.37E+04	2.96E+02	3.23E+09	-	-	-	-	-
Dichlorobenzene, 1,4-	106-46-7	-	1	1.44E+04	-	3.23E+09	3.82E+04	-	3.35E+03	3.08E+03	2.06E+05
Dichlorobenzidine, 3,3'-	91-94-1	0.1	1	-	-	3.23E+09	4.59E+02	3.64E+03	2.43E+07	4.07E+02	-
Dichlorobenzoic acid, -3,5	51-36-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dichlorobenzophenone, 4,4'-	90-98-2	0.1	1	-	-	3.23E+09	-	-	-	-	2.65E+04
Dichlorobenzotrifluoride, 3,4-	328-84-7	-	1	1.59E+04	4.57E+01	3.23E+09	-	-	-	-	-
Dichlorodifluoromethane	75-71-8	-	1	1.16E+03	8.44E+02	3.23E+09	-	-	-	-	5.90E+05
Dichlorodiisopropyl ether, 2,2'-	39638-32-9	-	1	1.81E+04	2.35E+02	3.23E+09	-	-	-	-	-
Dichloroethane, 1,1-	75-34-3	-	1	2.87E+03	1.69E+03	3.23E+09	3.62E+04	-	4.59E+03	4.07E+03	5.90E+05
Dichloroethane, 1,2-	107-06-2	-	1	6.31E+03	2.98E+03	3.23E+09	2.27E+03	-	6.20E+02	4.87E+02	1.77E+04
Dichloroethylene, 1,1-	75-35-4	-	1	1.59E+03	1.19E+03	3.23E+09	-	-	-	-	1.47E+05
Dichloroethylene, 1,2-cis-	156-59-2	-	1	3.45E+03	2.37E+03	3.23E+09	-	-	-	-	5.90E+03
Dichloroethylene, 1,2-trans-	156-60-5	-	1	3.46E+03	1.67E+03	3.23E+09	-	-	-	-	5.90E+04
Dichlorophenol, 2,3-	576-24-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dichlorophenol, 2,4-	120-83-2	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+03
Dichlorophenol, 2,5-	583-78-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dichlorophenol, 2,6-	87-65-0	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dichlorophenol, 3,4-	95-77-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dichlorophenols (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	0.05	1	-	-	3.23E+09	-	-	-	-	2.95E+04

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Dibutyltin Compounds	NA	7.01E+03	-	7.86E+02	7.86E+02 nc
Dibutyltin diacetate	1067-33-0	-	-	-	
Dibutyltin dichloride	683-18-1	-	-	-	
Dibutyltin oxide	818-08-6	-	-	-	
Dicalcium phosphate	7757-93-9	-	-	1.43E+08	1.43E+08 max
Dicamba	1918-00-9	7.01E+05	-	7.86E+04	7.86E+04 nc
Dichloro-2-butene, 1,4-	764-41-0	-	-	-	9.35E+00 ca
Dichloro-2-butene, cis-1,4-	1476-11-5	-	-	-	9.35E+00 ca
Dichloro-2-butene, trans-1,4-	110-57-6	-	-	-	9.36E+00 ca
Dichloroacetic Acid	79-43-6	9.35E+04	-	1.05E+04	3.67E+03 ca**
Dichloroaniline, 2,4-	554-00-7	-	-	-	
Dichloroaniline, 3,4-	95-76-1	-	-	-	
Dichlorobenzene	25321-22-6	-	-	-	
Dichlorobenzene, 1,2-	95-50-1	-	1.18E+05	8.15E+04	8.15E+04 sat
Dichlorobenzene, 1,3-	541-73-1	-	-	-	
Dichlorobenzene, 1,4-	106-46-7	-	4.21E+05	1.38E+05	3.08E+03 ca*
Dichlorobenzidine, 3,3'-	91-94-1	-	-	-	4.07E+02 ca
Dichlorobenzoic acid, -3,5	51-36-5	-	-	-	
Dichlorobenzophenone, 4,4'-	90-98-2	2.10E+05	-	2.36E+04	2.36E+04 nc
Dichlorobenzotrifluoride, 3,4-	328-84-7	-	-	-	
Dichlorodifluoromethane	75-71-8	-	4.23E+03	4.20E+03	4.20E+03 sat
Dichlorodiisopropyl ether, 2,2'-	39638-32-9	-	-	-	
Dichloroethane, 1,1-	75-34-3	-	-	5.90E+05	4.07E+03 sat
Dichloroethane, 1,2-	107-06-2	-	1.61E+03	1.48E+03	4.87E+02 ca**
Dichloroethylene, 1,1-	75-35-4	-	1.16E+04	1.08E+04	1.08E+04 sat
Dichloroethylene, 1,2-cis-	156-59-2	-	-	5.90E+03	5.90E+03 sat
Dichloroethylene, 1,2-trans-	156-60-5	-	-	5.90E+04	5.90E+04 sat
Dichlorophenol, 2,3-	576-24-9	-	-	-	
Dichlorophenol, 2,4-	120-83-2	7.01E+04	-	7.86E+03	7.86E+03 nc
Dichlorophenol, 2,5-	583-78-8	-	-	-	
Dichlorophenol, 2,6-	87-65-0	-	-	-	
Dichlorophenol, 3,4-	95-77-2	-	-	-	
Dichlorophenols (total)	NA	-	-	-	
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	4.67E+05	-	2.77E+04	2.77E+04 nc

Site-specific
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6	No	No	-		-		8.00E-03	U	-		1
Dichloropropane, 1,2-	78-87-5	No	Yes	3.60E-02	U	1.00E-05	U	9.00E-02	U	4.00E-03	U	1
Dichloropropane, 1,3-	142-28-9	No	Yes	-		-		2.00E-02	U	-		1
Dichloropropane, 2,2-	594-20-7	Yes	Yes	-		-		-		-		1
Dichloropropanol, 2,3-	616-23-9	No	No	-		-		3.00E-03	U	-		1
Dichloropropene, 1,3-	542-75-6	No	Yes	1.00E-01	U	4.00E-06	U	3.00E-02	U	2.00E-02	U	1
Dichloropropene, 2,3-	78-88-6	No	Yes	-		-		-		-		1
Dichloropropene, cis-1,3-	10061-01-5	No	Yes	-		-		-		-		1
Dichloropropene, trans-1,3-	10061-02-6	No	Yes	-		-		-		-		1
Dichlorvos	62-73-7	No	No	2.90E-01	U	8.30E-05	U	5.00E-04	U	5.00E-04	U	1
Diclofop-methyl	51338-27-3	No	No	-		-		-		-		1
Dicofol	115-32-2	No	No	-		-		-		-		1
Dicyclohexylamine	101-83-7	No	Yes	-		-		-		-		1
Dicyclopentadiene	77-73-6	No	Yes	-		-		8.00E-02	U	3.00E-04	U	1
Didecyl dimethyl ammonium chloride	7173-51-5	No	No	-		-		-		-		1
Dieldrin	60-57-1	No	No	1.60E+01	U	4.60E-03	U	5.00E-05	U	-		1
Diepoxybutane	1464-53-5	No	Yes	-		-		-		-		1
Diethanolamine	111-42-2	No	No	-		-		2.00E-03	U	2.00E-04	U	1
Diethyl Phthalate	84-66-2	No	No	-		-		8.00E-01	U	-		1
Diethyl sulfate	64-67-5	No	No	-		-		-		-		1
Diethyl-p-nitrophenylphosphate	311-45-5	No	No	-		-		-		-		1
Diethylene Glycol Dinitrate (DEGDN)	693-21-0	No	No	-		-		-		-		1
Diethylene Glycol Monobutyl Ether	112-34-5	No	No	-		-		3.00E-02	U	1.00E-04	U	1
Diethylene Glycol Monoethyl Ether	111-90-0	No	No	-		-		6.00E-02	U	3.00E-04	U	1
Diethylene-glycol	111-46-6	No	No	-		-		-		-		1
Diethylformamide	617-84-5	No	Yes	-		-		1.00E-03	U	-		1
Diethylphosphorodithioate	298-06-6	No	Yes	-		-		-		-		1
Diethylstilbestrol	56-53-1	No	No	3.50E+02	U	1.00E-01	U	-		-		1
Difenzoquat	43222-48-6	No	No	-		-		8.00E-02	U	-		1
Diflubenzuron	35367-38-5	No	No	-		-		2.00E-02	U	-		1
Difluoroethane, 1,1-	75-37-6	No	Yes	-		-		-		4.00E+01	U	1
Difluoropropane, 2,2-	420-45-1	No	Yes	-		-		-		-		1
Dihydrosafrole	94-58-6	No	Yes	4.40E-02	U	1.30E-05	U	-		-		1
Diisopropyl Ether	108-20-3	No	Yes	-		-		-		7.00E-01	U	1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+04
Dichloropropane, 1,2-	78-87-5	-	1	5.23E+03	1.36E+03	3.23E+09	5.74E+03	-	1.34E+03	1.08E+03	2.65E+05
Dichloropropane, 1,3-	142-28-9	-	1	9.33E+03	1.49E+03	3.23E+09	-	-	-	-	5.90E+04
Dichloropropane, 2,2-	594-20-7	-	1	2.21E+03	5.27E+02	3.23E+09	-	-	-	-	-
Dichloropropanol, 2,3-	616-23-9	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+03
Dichloropropene, 1,3-	542-75-6	-	1	4.91E+03	1.57E+03	3.23E+09	2.06E+03	-	3.13E+03	1.24E+03	8.85E+04
Dichloropropene, 2,3-	78-88-6	-	1	4.27E+03	1.07E+03	3.23E+09	-	-	-	-	-
Dichloropropene, cis-1,3-	10061-01-5	-	1	4.90E+03	1.22E+03	3.23E+09	-	-	-	-	-
Dichloropropene, trans-1,3-	10061-02-6	-	1	4.91E+03	1.57E+03	3.23E+09	-	-	-	-	-
Dichlorvos	62-73-7	0.1	1	-	-	3.23E+09	7.12E+02	5.64E+03	9.95E+07	6.32E+02	1.47E+03
Diclofop-methyl	51338-27-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dicofol	115-32-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dicyclohexylamine	101-83-7	-	1	8.62E+04	2.16E+03	3.23E+09	-	-	-	-	-
Dicyclopentadiene	77-73-6	-	1	5.67E+03	-	3.23E+09	-	-	-	-	2.36E+05
Didecyl dimethyl ammonium chloride	7173-51-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dieldrin	60-57-1	0.1	1	-	-	3.23E+09	1.29E+01	1.02E+02	1.80E+06	1.15E+01	1.47E+02
Diepoxybutane	1464-53-5	-	1	2.02E+05	1.15E+05	3.23E+09	-	-	-	-	-
Diethanolamine	111-42-2	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Diethyl Phthalate	84-66-2	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+06
Diethyl sulfate	64-67-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Diethyl-p-nitrophenylphosphate	311-45-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Diethylene Glycol Dinitrate (DEGDN)	693-21-0	0.1	1	-	-	3.23E+09	-	-	-	-	-
Diethylene Glycol Monobutyl Ether	112-34-5	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Diethylene Glycol Monoethyl Ether	111-90-0	0.1	1	-	-	3.23E+09	-	-	-	-	1.77E+05
Diethylene-glycol	111-46-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Diethylformamide	617-84-5	-	1	1.91E+05	1.12E+05	3.23E+09	-	-	-	-	2.95E+03
Diethylphosphorodithioate	298-06-6	-	1	1.79E+04	2.15E-02	3.23E+09	-	-	-	-	-
Diethylstilbestrol	56-53-1	0.1	1	-	-	3.23E+09	5.90E-01	4.67E+00	8.26E+04	5.24E-01	-
Difenzoquat	43222-48-6	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+05
Diflubenzuron	35367-38-5	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Difluoroethane, 1,1-	75-37-6	-	1	1.59E+03	1.43E+03	3.23E+09	-	-	-	-	-
Difluoropropane, 2,2-	420-45-1	-	1	1.01E+03	4.63E+04	3.23E+09	-	-	-	-	-
Dihydrosafrole	94-58-6	-	1	2.08E+03	-	3.23E+09	4.69E+03	-	4.09E+02	3.76E+02	-
Diisopropyl Ether	108-20-3	-	1	4.21E+03	2.26E+03	3.23E+09	-	-	-	-	-

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6	1.87E+05	-	2.10E+04	2.10E+04 nc
Dichloropropane, 1,2-	78-87-5	-	7.64E+02	7.62E+02	7.62E+02 nc
Dichloropropane, 1,3-	142-28-9	-	-	5.90E+04	5.90E+04 sat
Dichloropropane, 2,2-	594-20-7	-	-	-	
Dichloropropanol, 2,3-	616-23-9	7.01E+04	-	7.86E+03	7.86E+03 nc
Dichloropropene, 1,3-	542-75-6	-	3.58E+03	3.44E+03	1.24E+03 ca**
Dichloropropene, 2,3-	78-88-6	-	-	-	
Dichloropropene, cis-1,3-	10061-01-5	-	-	-	
Dichloropropene, trans-1,3-	10061-02-6	-	-	-	
Dichlorvos	62-73-7	1.17E+04	5.90E+07	1.31E+03	6.32E+02 ca**
Diclofop-methyl	51338-27-3	-	-	-	
Dicofol	115-32-2	-	-	-	
Dicyclohexylamine	101-83-7	-	-	-	
Dicyclopentadiene	77-73-6	-	6.21E+01	6.20E+01	6.20E+01 nc
Didecyl dimethyl ammonium chloride	7173-51-5	-	-	-	
Dieldrin	60-57-1	1.17E+03	-	1.31E+02	1.15E+01 ca*
Diepoxybutane	1464-53-5	-	-	-	
Diethanolamine	111-42-2	4.67E+04	2.36E+07	5.24E+03	5.24E+03 nc
Diethyl Phthalate	84-66-2	1.87E+07	-	2.10E+06	2.10E+06 max
Diethyl sulfate	64-67-5	-	-	-	
Diethyl-p-nitrophenylphosphate	311-45-5	-	-	-	
Diethylene Glycol Dinitrate (DEGDN)	693-21-0	-	-	-	
Diethylene Glycol Monobutyl Ether	112-34-5	7.01E+05	1.18E+07	7.81E+04	7.81E+04 nc
Diethylene Glycol Monoethyl Ether	111-90-0	1.40E+06	3.54E+07	1.56E+05	1.56E+05 max
Diethylene-glycol	111-46-6	-	-	-	
Diethylformamide	617-84-5	-	-	2.95E+03	2.95E+03 nc
Diethylphosphorodithioate	298-06-6	-	-	-	
Diethylstilbestrol	56-53-1	-	-	-	5.24E-01 ca
Difenzoquat	43222-48-6	1.87E+06	-	2.10E+05	2.10E+05 max
Diflubenzuron	35367-38-5	4.67E+05	-	5.24E+04	5.24E+04 nc
Difluoroethane, 1,1-	75-37-6	-	2.31E+06	2.31E+06	2.31E+06 sat
Difluoropropane, 2,2-	420-45-1	-	-	-	
Dihydrosafrole	94-58-6	-	-	-	3.76E+02 ca
Diisopropyl Ether	108-20-3	-	1.08E+05	1.08E+05	1.08E+05 sat

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Diisopropyl Methylphosphonate	1445-75-6	No	Yes	-		-		8.00E-02	U	-		1
Dimagnesium phosphate	7782-75-4	No	No	-		-		4.86E+01	U	-		1
Dimethipin	55290-64-7	No	No	-		-		2.00E-02	U	-		1
Dimethoate	60-51-5	No	No	-		-		2.00E-04	U	-		1
Dimethoxybenzidine, 3,3'-	119-90-4	No	No	1.60E+00	U	-		-		-		1
Dimethyl Sulfate	77-78-1	No	No	-		-		-		-		1
Dimethyl Sulfide	75-18-3	No	Yes	-		-		-		-		1
Dimethyl methylphosphonate	756-79-6	No	No	1.70E-03	U	-		6.00E-02	U	-		1
Dimethylamino azobenzene [p-]	60-11-7	No	No	4.60E+00	U	1.30E-03	U	-		-		1
Dimethylaniline HCl, 2,4-	21436-96-4	No	No	5.80E-01	U	-		-		-		1
Dimethylaniline, 2,4-	95-68-1	No	No	2.00E-01	U	-		2.00E-03	U	-		1
Dimethylaniline, N,N-	121-69-7	No	Yes	-		-		2.00E-03	U	-		1
Dimethylbenz(a)anthracene, 7,12-	57-97-6	Yes	No	2.50E+02	U	7.10E-02	U	-		-		1
Dimethylbenzidine, 3,3'-	119-93-7	No	No	1.10E+01	U	-		-		-		1
Dimethylcyclohexylamine, n,n-	98-94-2	No	Yes	-		-		-		-		1
Dimethylethyl Lead	107584-40-7	No	No	-		-		-		-		1
Dimethylformamide	68-12-2	No	Yes	-		-		1.00E-01	U	3.00E-02	U	1
Dimethylhydrazine, 1,1-	57-14-7	No	Yes	-		-		1.00E-04	U	2.00E-06	U	1
Dimethylhydrazine, 1,2-	540-73-8	No	Yes	5.50E+02	U	1.60E-01	U	-		-		1
Dimethylmercury	593-74-8	No	Yes	-		-		-		-		1
Dimethylphenethylamine	122-09-8	No	No	-		-		-		-		1
Dimethylphenol, 2,4-	105-67-9	No	No	-		-		2.00E-02	U	-		1
Dimethylphenol, 2,6-	576-26-1	No	No	-		-		6.00E-04	U	-		1
Dimethylphenol, 3,4-	95-65-8	No	No	-		-		1.00E-03	U	-		1
Dimethylphthalate	131-11-3	No	No	-		-		-		-		1
Dimethylterephthalate	120-61-6	No	Yes	-		-		1.00E-01	U	-		1
Dimethylvinylchloride	513-37-1	No	Yes	4.50E-02	U	1.30E-05	U	-		-		1
Dinitro-o-cresol, 4,6-	534-52-1	No	No	-		-		8.00E-05	U	-		1
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	No	No	-		-		2.00E-03	U	-		1
Dinitroaniline, 3,5-	618-87-1	No	No	-		-		-		-		1
Dinitrobenzene, 1,2-	528-29-0	No	No	-		-		1.00E-04	U	-		1
Dinitrobenzene, 1,3-	99-65-0	No	No	-		-		1.00E-04	U	-		1
Dinitrobenzene, 1,4-	100-25-4	No	No	-		-		1.00E-04	U	-		1
Dinitrophenol, 2,4-	51-28-5	No	No	-		-		2.00E-03	U	-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Diisopropyl Methylphosphonate	1445-75-6	-	1	5.26E+04	5.30E+02	3.23E+09	-	-	-	-	2.36E+05
Dimagnesium phosphate	7782-75-4	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Dimethipin	55290-64-7	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Dimethoate	60-51-5	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+02
Dimethoxybenzidine, 3,3'-	119-90-4	0.1	1	-	-	3.23E+09	1.29E+02	1.02E+03	-	1.15E+02	-
Dimethyl Sulfate	77-78-1	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dimethyl Sulfide	75-18-3	-	1	4.10E+03	5.34E+03	3.23E+09	-	-	-	-	-
Dimethyl methylphosphonate	756-79-6	0.1	1	-	-	3.23E+09	1.21E+05	9.62E+05	-	1.08E+05	1.77E+05
Dimethylamino azobenzene [p-]	60-11-7	0.1	1	-	-	3.23E+09	4.49E+01	3.56E+02	6.35E+06	3.99E+01	-
Dimethylaniline HCl, 2,4-	21436-96-4	0.1	1	-	-	3.23E+09	3.56E+02	2.82E+03	-	3.16E+02	-
Dimethylaniline, 2,4-	95-68-1	0.1	1	-	-	3.23E+09	1.03E+03	8.18E+03	-	9.17E+02	5.90E+03
Dimethylaniline, N,N-	121-69-7	-	1	4.32E+04	8.30E+02	3.23E+09	-	-	-	-	5.90E+03
Dimethylbenz(a)anthracene, 7,12-	57-97-6	0.13	1	-	-	3.23E+09	8.26E-01	5.03E+00	1.16E+05	7.09E-01	-
Dimethylbenzidine, 3,3'-	119-93-7	0.1	1	-	-	3.23E+09	1.88E+01	1.49E+02	-	1.67E+01	-
Dimethylcyclohexylamine, n,n-	98-94-2	-	1	5.23E+04	-	3.23E+09	-	-	-	-	-
Dimethylethyl Lead	107584-40-7	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dimethylformamide	68-12-2	-	1	1.76E+05	1.06E+05	3.23E+09	-	-	-	-	2.95E+05
Dimethylhydrazine, 1,1-	57-14-7	-	1	2.23E+05	1.72E+05	3.23E+09	-	-	-	-	2.95E+02
Dimethylhydrazine, 1,2-	540-73-8	-	1	2.31E+05	1.89E+05	3.23E+09	3.75E-01	-	3.69E+00	3.41E-01	-
Dimethylmercury	593-74-8	-	1	5.88E+03	4.14E+03	3.23E+09	-	-	-	-	-
Dimethylphenethylamine	122-09-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dimethylphenol, 2,4-	105-67-9	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Dimethylphenol, 2,6-	576-26-1	0.1	1	-	-	3.23E+09	-	-	-	-	1.77E+03
Dimethylphenol, 3,4-	95-65-8	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Dimethylphthalate	131-11-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dimethylterephthalate	120-61-6	-	1	2.95E+04	-	3.23E+09	-	-	-	-	2.95E+05
Dimethylvinylchloride	513-37-1	-	1	1.39E+03	1.09E+03	3.23E+09	4.59E+03	-	2.73E+02	2.58E+02	-
Dinitro-o-cresol, 4,6-	534-52-1	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+02
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Dinitroaniline, 3,5-	618-87-1	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dinitrobenzene, 1,2-	528-29-0	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+02
Dinitrobenzene, 1,3-	99-65-0	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+02
Dinitrobenzene, 1,4-	100-25-4	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+02
Dinitrophenol, 2,4-	51-28-5	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Diisopropyl Methylphosphonate	1445-75-6	-	-	2.36E+05	2.36E+05 sat
Dimagnesium phosphate	7782-75-4	-	-	1.43E+08	1.43E+08 max
Dimethipin	55290-64-7	4.67E+05	-	5.24E+04	5.24E+04 nc
Dimethoate	60-51-5	4.67E+03	-	5.24E+02	5.24E+02 nc
Dimethoxybenzidine, 3,3'-	119-90-4	-	-	-	1.15E+02 ca
Dimethyl Sulfate	77-78-1	-	-	-	
Dimethyl Sulfide	75-18-3	-	-	-	
Dimethyl methylphosphonate	756-79-6	1.40E+06	-	1.57E+05	1.08E+05 max
Dimethylamino azobenzene [p-]	60-11-7	-	-	-	3.99E+01 ca
Dimethylaniline HCl, 2,4-	21436-96-4	-	-	-	3.16E+02 ca
Dimethylaniline, 2,4-	95-68-1	4.67E+04	-	5.24E+03	9.17E+02 ca**
Dimethylaniline, N,N-	121-69-7	-	-	5.90E+03	5.90E+03 sat
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	-	-	7.09E-01 ca
Dimethylbenzidine, 3,3'-	119-93-7	-	-	-	1.67E+01 ca
Dimethylcyclohexylamine, n,n-	98-94-2	-	-	-	
Dimethylethyl Lead	107584-40-7	-	-	-	
Dimethylformamide	68-12-2	-	1.93E+05	1.16E+05	1.16E+05 sat
Dimethylhydrazine, 1,1-	57-14-7	-	1.63E+01	1.54E+01	1.54E+01 nc
Dimethylhydrazine, 1,2-	540-73-8	-	-	-	3.41E-01 ca
Dimethylmercury	593-74-8	-	-	-	
Dimethylphenethylamine	122-09-8	-	-	-	
Dimethylphenol, 2,4-	105-67-9	4.67E+05	-	5.24E+04	5.24E+04 nc
Dimethylphenol, 2,6-	576-26-1	1.40E+04	-	1.57E+03	1.57E+03 nc
Dimethylphenol, 3,4-	95-65-8	2.34E+04	-	2.62E+03	2.62E+03 nc
Dimethylphthalate	131-11-3	-	-	-	
Dimethylterephthalate	120-61-6	-	-	2.95E+05	2.95E+05 max
Dimethylvinylchloride	513-37-1	-	-	-	2.58E+02 ca
Dinitro-o-cresol, 4,6-	534-52-1	1.87E+03	-	2.10E+02	2.10E+02 nc
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	4.67E+04	-	5.24E+03	5.24E+03 nc
Dinitroaniline, 3,5-	618-87-1	-	-	-	
Dinitrobenzene, 1,2-	528-29-0	2.34E+03	-	2.62E+02	2.62E+02 nc
Dinitrobenzene, 1,3-	99-65-0	2.34E+03	-	2.62E+02	2.62E+02 nc
Dinitrobenzene, 1,4-	100-25-4	2.34E+03	-	2.62E+02	2.62E+02 nc
Dinitrophenol, 2,4-	51-28-5	4.67E+04	-	5.24E+03	5.24E+03 nc

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Dinitrophenols	25550-58-7	Yes	No	-		-		-		-		1
Dinitrosopentamethylenetetramine, N,N-	101-25-7	No	No	-		-		-		-		1
Dinitrotoluene Mixture, 2,4/2,6-	NA	No	No	6.80E-01	U	-		-		-		1
Dinitrotoluene, 2,4-	121-14-2	No	No	3.10E-01	U	8.90E-05	U	2.00E-03	U	-		1
Dinitrotoluene, 2,6-	606-20-2	No	No	1.50E+00	U	-		3.00E-04	U	-		1
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	No	No	-		-		2.00E-03	U	-		1
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	No	No	-		-		2.00E-03	U	-		1
Dinitrotoluene, Technical grade	25321-14-6	No	No	4.50E-01	U	-		9.00E-04	U	-		1
Dinoseb	88-85-7	No	No	-		-		1.00E-03	U	-		1
Dioxane, 1,4-	123-91-1	No	Yes	1.00E-01	U	5.00E-06	U	3.00E-02	U	3.00E-02	U	1
Diphenamid	957-51-7	No	No	-		-		3.00E-02	U	-		1
Diphenyl Sulfone	127-63-9	No	No	-		-		8.00E-04	U	-		1
Diphenylamine	122-39-4	No	No	-		-		2.50E-02	U	-		1
Diphenylhydrazine, 1,2-	122-66-7	No	No	8.00E-01	U	2.20E-04	U	-		-		1
Dipotassium phosphate	7758-11-4	No	No	-		-		4.86E+01	U	-		1
Diquat	85-00-7	No	No	-		-		2.20E-03	U	-		1
Direct Black 38	1937-37-7	No	No	7.10E+00	U	1.40E-01	U	-		-		1
Direct Blue 6	2602-46-2	No	No	7.40E+00	U	1.40E-01	U	-		-		1
Direct Brown 95	16071-86-6	No	No	6.70E+00	U	1.40E-01	U	-		-		1
Direct Sky Blue	2610-05-1	No	No	-		-		-		-		1
Disodium phosphate	7558-79-4	No	No	-		-		4.86E+01	U	-		1
Disulfoton	298-04-4	No	No	-		-		4.00E-05	U	-		1
Dithiane, 1,4-	505-29-3	No	Yes	-		-		1.00E-02	U	-		1
Diuron	330-54-1	No	No	-		-		2.00E-03	U	-		1
Dodecyl benzenesulfonic acid	27176-87-0	No	No	-		-		-		-		1
Dodine	2439-10-3	No	No	-		-		4.00E-03	U	-		1
EPTC	759-94-4	No	Yes	-		-		2.50E-02	U	-		1
Endosulfan	115-29-7	No	Yes	-		-		6.00E-03	U	-		1
Endosulfan I	959-98-8	No	Yes	-		-		-		-		1
Endosulfan II	33213-65-9	No	Yes	-		-		-		-		1
Endosulfan Sulfate	1031-07-8	No	No	-		-		-		-		1
Endothall	145-73-3	No	No	-		-		2.00E-02	U	-		1
Endrin	72-20-8	No	No	-		-		3.00E-04	U	-		1
Endrin aldehyde	7421-93-4	No	No	-		-		-		-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Dinitrophenols	25550-58-7	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dinitrosopentamethylenetetramine, N,N-	101-25-7	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dinitrotoluene Mixture, 2,4/2,6-	NA	0.1	1	-	-	3.23E+09	3.04E+02	2.41E+03	-	2.70E+02	-
Dinitrotoluene, 2,4-	121-14-2	0.102	1	-	-	3.23E+09	6.66E+02	5.17E+03	9.28E+07	5.90E+02	5.90E+03
Dinitrotoluene, 2,6-	606-20-2	0.099	1	-	-	3.23E+09	1.38E+02	1.10E+03	-	1.22E+02	8.85E+02
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	0.006	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	0.009	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Dinitrotoluene, Technical grade	25321-14-6	0.1	1	-	-	3.23E+09	4.59E+02	3.64E+03	-	4.07E+02	2.65E+03
Dinoseb	88-85-7	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Dioxane, 1,4-	123-91-1	-	1	5.47E+04	1.16E+05	3.23E+09	2.06E+03	-	2.80E+04	1.92E+03	8.85E+04
Diphenamid	957-51-7	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Diphenyl Sulfone	127-63-9	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+03
Diphenylamine	122-39-4	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+04
Diphenylhydrazine, 1,2-	122-66-7	0.1	1	-	-	3.23E+09	2.58E+02	2.05E+03	3.75E+07	2.29E+02	-
Dipotassium phosphate	7758-11-4	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Diquat	85-00-7	0.1	1	-	-	3.23E+09	-	-	-	-	6.49E+03
Direct Black 38	1937-37-7	0.1	1	-	-	3.23E+09	2.91E+01	2.30E+02	5.90E+04	2.58E+01	-
Direct Blue 6	2602-46-2	0.1	1	-	-	3.23E+09	2.79E+01	2.21E+02	5.90E+04	2.48E+01	-
Direct Brown 95	16071-86-6	0.1	1	-	-	3.23E+09	3.08E+01	2.44E+02	5.90E+04	2.74E+01	-
Direct Sky Blue	2610-05-1	0.1	1	-	-	3.23E+09	-	-	-	-	-
Disodium phosphate	7558-79-4	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Disulfoton	298-04-4	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+02
Dithiane, 1,4-	505-29-3	-	1	6.26E+04	-	3.23E+09	-	-	-	-	2.95E+04
Diuron	330-54-1	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Dodecyl benzenesulfonic acid	27176-87-0	0.1	1	-	-	3.23E+09	-	-	-	-	-
Dodine	2439-10-3	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+04
EPTC	759-94-4	-	1	1.62E+05	-	3.23E+09	-	-	-	-	7.37E+04
Endosulfan	115-29-7	-	1	5.65E+05	-	3.23E+09	-	-	-	-	1.77E+04
Endosulfan I	959-98-8	-	1	5.65E+05	-	3.23E+09	-	-	-	-	-
Endosulfan II	33213-65-9	-	1	5.51E+05	-	3.23E+09	-	-	-	-	-
Endosulfan Sulfate	1031-07-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Endothall	145-73-3	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Endrin	72-20-8	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+02
Endrin aldehyde	7421-93-4	0.1	1	-	-	3.23E+09	-	-	-	-	-

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Dinitrophenols	25550-58-7	-	-	-	
Dinitrosopentamethylenetetramine, N,N-	101-25-7	-	-	-	
Dinitrotoluene Mixture, 2,4/2,6-	NA	-	-	-	2.70E+02 ca
Dinitrotoluene, 2,4-	121-14-2	4.58E+04	-	5.23E+03	5.90E+02 ca**
Dinitrotoluene, 2,6-	606-20-2	7.08E+03	-	7.87E+02	1.22E+02 ca**
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	7.79E+05	-	5.85E+03	5.85E+03 nc
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	5.19E+05	-	5.83E+03	5.83E+03 nc
Dinitrotoluene, Technical grade	25321-14-6	2.10E+04	-	2.36E+03	4.07E+02 ca**
Dinoseb	88-85-7	2.34E+04	-	2.62E+03	2.62E+03 nc
Dioxane, 1,4-	123-91-1	-	5.99E+04	3.57E+04	1.92E+03 ca*
Diphenamid	957-51-7	7.01E+05	-	7.86E+04	7.86E+04 nc
Diphenyl Sulfone	127-63-9	1.87E+04	-	2.10E+03	2.10E+03 nc
Diphenylamine	122-39-4	5.84E+05	-	6.55E+04	6.55E+04 nc
Diphenylhydrazine, 1,2-	122-66-7	-	-	-	2.29E+02 ca
Dipotassium phosphate	7758-11-4	-	-	1.43E+08	1.43E+08 max
Diquat	85-00-7	5.14E+04	-	5.76E+03	5.76E+03 nc
Direct Black 38	1937-37-7	-	-	-	2.58E+01 ca
Direct Blue 6	2602-46-2	-	-	-	2.48E+01 ca
Direct Brown 95	16071-86-6	-	-	-	2.74E+01 ca
Direct Sky Blue	2610-05-1	-	-	-	
Disodium phosphate	7558-79-4	-	-	1.43E+08	1.43E+08 max
Disulfoton	298-04-4	9.35E+02	-	1.05E+02	1.05E+02 nc
Dithiane, 1,4-	505-29-3	-	-	2.95E+04	2.95E+04 nc
Diuron	330-54-1	4.67E+04	-	5.24E+03	5.24E+03 nc
Dodecyl benzenesulfonic acid	27176-87-0	-	-	-	
Dodine	2439-10-3	9.35E+04	-	1.05E+04	1.05E+04 nc
EPTC	759-94-4	-	-	7.37E+04	7.37E+04 nc
Endosulfan	115-29-7	-	-	1.77E+04	1.77E+04 nc
Endosulfan I	959-98-8	-	-	-	
Endosulfan II	33213-65-9	-	-	-	
Endosulfan Sulfate	1031-07-8	-	-	-	
Endothall	145-73-3	4.67E+05	-	5.24E+04	5.24E+04 nc
Endrin	72-20-8	7.01E+03	-	7.86E+02	7.86E+02 nc
Endrin aldehyde	7421-93-4	-	-	-	

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Endrin ketone	53494-70-5	No	No	-		-		-		-		1
Epichlorohydrin	106-89-8	No	Yes	9.90E-03	U	1.20E-06	U	6.00E-03	U	1.00E-03	U	1
Epoxybutane, 1,2-	106-88-7	No	Yes	-		-		-		2.00E-02	U	1
Ethanol	64-17-5	No	Yes	-		-		-		-		1
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	No	No	-		-		-		-		1
Ethephon	16672-87-0	No	No	-		-		5.00E-03	U	-		1
Ethion	563-12-2	No	No	-		-		5.00E-04	U	-		1
Ethoxy Propanol	52125-53-8	No	Yes	-		-		-		-		1
Ethoxyethanol Acetate, 2-	111-15-9	No	Yes	-		-		1.00E-01	U	6.00E-02	U	1
Ethoxyethanol, 2-	110-80-5	No	Yes	-		-		9.00E-02	U	2.00E-01	U	1
Ethyl Acetate	141-78-6	No	Yes	-		-		9.00E-01	U	7.00E-02	U	1
Ethyl Acrylate	140-88-5	No	Yes	4.80E-02	U	-		5.00E-03	U	8.00E-03	U	1
Ethyl Chloride	75-00-3	No	Yes	-		-		-		1.00E+01	U	1
Ethyl Ether	60-29-7	No	Yes	-		-		2.00E-01	U	-		1
Ethyl Methacrylate	97-63-2	No	Yes	-		-		9.00E-02	U	3.00E-01	U	1
Ethyl methane sulfonate	62-50-0	No	No	-		-		-		-		1
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	No	No	-		-		1.00E-05	U	-		1
Ethylbenzene	100-41-4	No	Yes	1.10E-02	U	2.50E-06	U	1.00E-01	U	1.00E+00	U	1
Ethylene Cyanohydrin	109-78-4	No	No	-		-		7.00E-02	U	-		1
Ethylene Diamine	107-15-3	No	Yes	-		-		9.00E-02	U	-		1
Ethylene Glycol	107-21-1	No	No	-		-		2.00E+00	U	4.00E-01	U	1
Ethylene Glycol Monobutyl Ether	111-76-2	No	No	-		-		1.00E-01	U	1.60E+00	U	1
Ethylene Oxide	75-21-8	No	Yes	3.10E-01	U	8.80E-05	U	-		3.00E-02	U	1
Ethylene Thiourea	96-45-7	No	No	4.50E-02	U	1.30E-05	U	8.00E-05	U	-		1
Ethyleneimine	151-56-4	No	Yes	6.50E+01	U	1.90E-02	U	-		-		1
Ethylphenol, 4-	123-07-9	No	No	-		-		-		-		1
Ethylphthalyl Ethyl Glycolate	84-72-0	No	No	-		-		3.00E+00	U	-		1
Express	101200-48-0	No	No	-		-		8.00E-03	U	-		1
Famphur	52-85-7	No	No	-		-		-		-		1
Fenamiphos	22224-92-6	No	No	-		-		2.50E-04	U	-		1
Fenpropathrin	39515-41-8	No	No	-		-		2.50E-02	U	-		1
Fluometuron	2164-17-2	No	No	-		-		1.30E-02	U	-		1
Fluoranthene	206-44-0	No	No	-		-		4.00E-02	U	-		1
Fluorene	86-73-7	No	Yes	-		-		4.00E-02	U	-		1

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Endrin ketone	53494-70-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Epichlorohydrin	106-89-8	-	1	2.61E+04	1.05E+04	3.23E+09	2.09E+04	-	5.55E+04	1.52E+04	1.77E+04
Epoxybutane, 1,2-	106-88-7	-	1	1.06E+04	1.53E+04	3.23E+09	-	-	-	-	-
Ethanol	64-17-5	-	1	4.34E+04	1.06E+05	3.23E+09	-	-	-	-	-
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Ethephon	16672-87-0	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Ethion	563-12-2	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+03
Ethoxy Propanol	52125-53-8	-	1	1.26E+05	8.55E+04	3.23E+09	-	-	-	-	-
Ethoxyethanol Acetate, 2-	111-15-9	-	1	8.47E+04	3.14E+04	3.23E+09	-	-	-	-	2.95E+05
Ethoxyethanol, 2-	110-80-5	-	1	1.36E+05	1.06E+05	3.23E+09	-	-	-	-	2.65E+05
Ethyl Acetate	141-78-6	-	1	1.19E+04	1.08E+04	3.23E+09	-	-	-	-	2.65E+06
Ethyl Acrylate	140-88-5	-	1	8.74E+03	2.50E+03	3.23E+09	4.30E+03	-	-	4.30E+03	1.47E+04
Ethyl Chloride	75-00-3	-	1	1.78E+03	2.12E+03	3.23E+09	-	-	-	-	-
Ethyl Ether	60-29-7	-	1	4.31E+03	1.01E+04	3.23E+09	-	-	-	-	5.90E+05
Ethyl Methacrylate	97-63-2	-	1	7.97E+03	1.11E+03	3.23E+09	-	-	-	-	2.65E+05
Ethyl methane sulfonate	62-50-0	0.1	1	-	-	3.23E+09	-	-	-	-	-
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+01
Ethylbenzene	100-41-4	-	1	7.82E+03	4.79E+02	3.23E+09	1.88E+04	-	7.99E+03	5.60E+03	2.95E+05
Ethylene Cyanohydrin	109-78-4	0.1	1	-	-	3.23E+09	-	-	-	-	2.06E+05
Ethylene Diamine	107-15-3	-	1	2.48E+05	1.89E+05	3.23E+09	-	-	-	-	2.65E+05
Ethylene Glycol	107-21-1	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+06
Ethylene Glycol Monobutyl Ether	111-76-2	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Ethylene Oxide	75-21-8	-	1	8.40E+03	1.21E+05	3.23E+09	6.66E+02	-	2.44E+02	1.78E+02	-
Ethylene Thiourea	96-45-7	0.1	1	-	-	3.23E+09	4.59E+03	3.64E+04	6.35E+08	4.07E+03	2.36E+02
Ethyleneimine	151-56-4	-	1	3.29E+04	1.54E+05	3.23E+09	3.18E+00	-	4.43E+00	1.85E+00	-
Ethylphenol, 4-	123-07-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Ethylphthalyl Ethyl Glycolate	84-72-0	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+06
Express	101200-48-0	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+04
Famphur	52-85-7	0.1	1	-	-	3.23E+09	-	-	-	-	-
Fenamiphos	22224-92-6	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+02
Fenpropathrin	39515-41-8	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+04
Fluometuron	2164-17-2	0.1	1	-	-	3.23E+09	-	-	-	-	3.83E+04
Fluoranthene	206-44-0	0.13	1	-	-	3.23E+09	-	-	-	-	1.18E+05
Fluorene	86-73-7	0.13	1	3.88E+05	-	3.23E+09	-	-	-	-	1.18E+05

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Endrin ketone	53494-70-5	-	-	-	
Epichlorohydrin	106-89-8	-	9.52E+02	9.03E+02	9.03E+02 nc
Epoxybutane, 1,2-	106-88-7	-	7.71E+03	7.71E+03	7.71E+03 nc
Ethanol	64-17-5	-	-	-	
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	-	-	-	
Ethephon	16672-87-0	1.17E+05	-	1.31E+04	1.31E+04 nc
Ethion	563-12-2	1.17E+04	-	1.31E+03	1.31E+03 nc
Ethoxy Propanol	52125-53-8	-	-	-	
Ethoxyethanol Acetate, 2-	111-15-9	-	1.86E+05	1.14E+05	1.14E+05 sat
Ethoxyethanol, 2-	110-80-5	-	9.91E+05	2.09E+05	2.09E+05 sat
Ethyl Acetate	141-78-6	-	3.04E+04	3.00E+04	3.00E+04 sat
Ethyl Acrylate	140-88-5	-	2.55E+03	2.18E+03	2.18E+03 nc
Ethyl Chloride	75-00-3	-	6.51E+05	6.51E+05	6.51E+05 sat
Ethyl Ether	60-29-7	-	-	5.90E+05	5.90E+05 sat
Ethyl Methacrylate	97-63-2	-	8.73E+04	6.57E+04	6.57E+04 sat
Ethyl methane sulfonate	62-50-0	-	-	-	
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	2.34E+02	-	2.62E+01	2.62E+01 nc
Ethylbenzene	100-41-4	-	2.85E+05	1.45E+05	5.60E+03 sat
Ethylene Cyanohydrin	109-78-4	1.64E+06	-	1.83E+05	1.83E+05 max
Ethylene Diamine	107-15-3	-	-	2.65E+05	2.65E+05 sat
Ethylene Glycol	107-21-1	4.67E+07	4.72E+10	5.24E+06	5.24E+06 max
Ethylene Glycol Monobutyl Ether	111-76-2	2.34E+06	1.89E+11	2.62E+05	2.62E+05 max
Ethylene Oxide	75-21-8	-	9.19E+03	9.19E+03	1.78E+02 ca*
Ethylene Thiourea	96-45-7	1.87E+03	-	2.10E+02	2.10E+02 nc
Ethyleneimine	151-56-4	-	-	-	1.85E+00 ca
Ethylphenol, 4-	123-07-9	-	-	-	
Ethylphthalyl Ethyl Glycolate	84-72-0	7.01E+07	-	7.86E+06	7.86E+06 max
Express	101200-48-0	1.87E+05	-	2.10E+04	2.10E+04 nc
Famphur	52-85-7	-	-	-	
Fenamiphos	22224-92-6	5.84E+03	-	6.55E+02	6.55E+02 nc
Fenpropathrin	39515-41-8	5.84E+05	-	6.55E+04	6.55E+04 nc
Fluometuron	2164-17-2	3.04E+05	-	3.40E+04	3.40E+04 nc
Fluoranthene	206-44-0	7.19E+05	-	1.01E+05	1.01E+05 max
Fluorene	86-73-7	7.19E+05	-	1.01E+05	1.01E+05 max

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR UTILITY WORKER
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Fluoride	16984-48-8	No	No	-		-		4.00E-02	U	1.30E-02	U	1
Fluorine (Soluble Fluoride)	7782-41-4	No	No	-		-		6.00E-02	U	1.30E-02	U	1
Fluorobenzene	462-06-6	No	Yes	-		-		-		-		1
Fluorobiphenyl, 2-	321-60-8	No	Yes	-		-		-		-		1
Fluorophenol, 2-	367-12-4	No	Yes	-		-		-		-		1
Fluridone	59756-60-4	No	No	-		-		8.00E-02	U	-		1
Flurprimidol	56425-91-3	No	No	-		-		2.00E-02	U	-		1
Flutolanil	66332-96-5	No	No	-		-		6.00E-02	U	-		1
Fluvalinate	69409-94-5	No	No	-		-		1.00E-02	U	-		1
Folpet	133-07-3	No	No	3.50E-03	U	-		1.00E-01	U	-		1
Fomesafen	72178-02-0	No	No	1.90E-01	U	-		-		-		1
Fonofos	944-22-9	No	No	-		-		2.00E-03	U	-		1
Formaldehyde	50-00-0	No	Yes	-		1.30E-05	U	2.00E-01	U	9.83E-03	U	1
Formic Acid	64-18-6	No	Yes	-		-		9.00E-01	U	3.00E-04	U	1
Fosetyl-AL	39148-24-8	No	No	-		-		3.00E+00	U	-		1
Fuel Oil Number 2	68476-30-2	No	No	-		-		-		-		1
Furan	110-00-9	No	Yes	-		-		1.00E-03	U	-		1
Furazolidone	67-45-8	No	No	3.80E+00	U	-		-		-		1
Furfural	98-01-1	No	Yes	-		-		3.00E-03	U	5.00E-02	U	1
Furium	531-82-8	No	No	1.50E+00	U	4.30E-04	U	-		-		1
Furmecyclox	60568-05-0	No	No	3.00E-02	U	8.60E-06	U	-		-		1
Gadolinium	7440-54-2	No	No	-		-		-		-		1
Gallium	7440-55-3	No	No	-		-		-		-		1
Germanium	7440-56-4	No	No	-		-		-		-		1
Glufosinate, Ammonium	77182-82-2	No	No	-		-		4.00E-04	U	-		1
Glutaraldehyde	111-30-8	No	No	-		-		-		8.00E-05	U	1
Glycerol	56-81-5	No	No	-		-		-		-		1
Glycidyl	765-34-4	No	Yes	-		-		4.00E-04	U	1.00E-03	U	1
Glyphosate	1071-83-6	No	No	-		-		1.00E-01	U	-		1
Goal	42874-03-3	No	No	-		-		3.00E-03	U	-		1
Guanidine	113-00-8	No	Yes	-		-		1.00E-02	U	-		1
Guanidine Chloride	50-01-1	No	No	-		-		2.00E-02	U	-		1
Guanidine Nitrate	506-93-4	No	No	-		-		-		-		1
Guthion	86-50-0	No	No	-		-		3.00E-03	U	1.00E-02	U	1

Site-specific
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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Fluoride	16984-48-8	-	1	-	-	3.23E+09	-	-	-	-	1.18E+05
Fluorine (Soluble Fluoride)	7782-41-4	-	1	-	-	3.23E+09	-	-	-	-	1.77E+05
Fluorobenzene	462-06-6	-	1	6.49E+03	2.39E+03	3.23E+09	-	-	-	-	-
Fluorobiphenyl, 2-	321-60-8	-	1	1.08E+05	-	3.23E+09	-	-	-	-	-
Fluorophenol, 2-	367-12-4	-	1	2.93E+05	9.21E+04	3.23E+09	-	-	-	-	-
Fluridone	59756-60-4	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+05
Flurprimidol	56425-91-3	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Flutolanil	66332-96-5	0.1	1	-	-	3.23E+09	-	-	-	-	1.77E+05
Fluvalinate	69409-94-5	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Folpet	133-07-3	0.1	1	-	-	3.23E+09	5.90E+04	4.67E+05	-	5.24E+04	2.95E+05
Fomesafen	72178-02-0	0.1	1	-	-	3.23E+09	1.09E+03	8.61E+03	-	9.65E+02	-
Fonofos	944-22-9	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Formaldehyde	50-00-0	-	1	1.07E+05	4.24E+04	3.23E+09	-	-	2.11E+04	2.11E+04	5.90E+05
Formic Acid	64-18-6	-	1	1.28E+05	1.06E+05	3.23E+09	-	-	-	-	2.65E+06
Fosetyl-AL	39148-24-8	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+06
Fuel Oil Number 2	68476-30-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Furan	110-00-9	0.03	1	3.60E+03	6.22E+03	3.23E+09	-	-	-	-	2.95E+03
Furazolidone	67-45-8	0.1	1	-	-	3.23E+09	5.43E+01	4.31E+02	-	4.82E+01	-
Furfural	98-01-1	-	1	6.71E+04	1.01E+04	3.23E+09	-	-	-	-	8.85E+03
Furium	531-82-8	0.1	1	-	-	3.23E+09	1.38E+02	1.09E+03	1.92E+07	1.22E+02	-
Furmecyclox	60568-05-0	0.1	1	-	-	3.23E+09	6.88E+03	5.45E+04	9.61E+08	6.11E+03	-
Gadolinium	7440-54-2	-	1	-	-	3.23E+09	-	-	-	-	-
Gallium	7440-55-3	-	1	-	-	3.23E+09	-	-	-	-	-
Germanium	7440-56-4	-	1	-	-	3.23E+09	-	-	-	-	-
Glufosinate, Ammonium	77182-82-2	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+03
Glutaraldehyde	111-30-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Glycerol	56-81-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Glycidyl	765-34-4	-	1	1.01E+05	1.06E+05	3.23E+09	-	-	-	-	1.18E+03
Glyphosate	1071-83-6	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Goal	42874-03-3	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+03
Guanidine	113-00-8	-	1	2.00E+05	-	3.23E+09	-	-	-	-	2.95E+04
Guanidine Chloride	50-01-1	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Guanidine Nitrate	506-93-4	0.1	1	-	-	3.23E+09	-	-	-	-	-
Guthion	86-50-0	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+03

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Fluoride	16984-48-8	-	1.53E+09	1.18E+05	1.18E+05 max
Fluorine (Soluble Fluoride)	7782-41-4	-	1.53E+09	1.77E+05	1.77E+05 max
Fluorobenzene	462-06-6	-	-	-	
Fluorobiphenyl, 2-	321-60-8	-	-	-	
Fluorophenol, 2-	367-12-4	-	-	-	
Fluridone	59756-60-4	1.87E+06	-	2.10E+05	2.10E+05 max
Flurprimidol	56425-91-3	4.67E+05	-	5.24E+04	5.24E+04 nc
Flutolanil	66332-96-5	1.40E+06	-	1.57E+05	1.57E+05 max
Fluvalinate	69409-94-5	2.34E+05	-	2.62E+04	2.62E+04 nc
Folpet	133-07-3	2.34E+06	-	2.62E+05	5.24E+04 ca**
Fomesafen	72178-02-0	-	-	-	9.65E+02 ca
Fonofos	944-22-9	4.67E+04	-	5.24E+03	5.24E+03 nc
Formaldehyde	50-00-0	-	3.85E+04	3.61E+04	2.11E+04 ca**
Formic Acid	64-18-6	-	1.40E+03	1.40E+03	1.40E+03 nc
Fosetyl-AL	39148-24-8	7.01E+07	-	7.86E+06	7.86E+06 max
Fuel Oil Number 2	68476-30-2	-	-	-	
Furan	110-00-9	7.79E+04	-	2.84E+03	2.84E+03 nc
Furazolidone	67-45-8	-	-	-	4.82E+01 ca
Furfural	98-01-1	-	1.22E+05	8.25E+03	8.25E+03 nc
Furium	531-82-8	-	-	-	1.22E+02 ca
Furmecyclox	60568-05-0	-	-	-	6.11E+03 ca
Gadolinium	7440-54-2	-	-	-	
Gallium	7440-55-3	-	-	-	
Germanium	7440-56-4	-	-	-	
Glufosinate, Ammonium	77182-82-2	9.35E+03	-	1.05E+03	1.05E+03 nc
Glutaraldehyde	111-30-8	-	9.44E+06	9.44E+06	9.44E+06 max
Glycerol	56-81-5	-	-	-	
Glycidyl	765-34-4	-	3.70E+03	8.94E+02	8.94E+02 nc
Glyphosate	1071-83-6	2.34E+06	-	2.62E+05	2.62E+05 max
Goal	42874-03-3	7.01E+04	-	7.86E+03	7.86E+03 nc
Guanidine	113-00-8	-	-	2.95E+04	2.95E+04 nc
Guanidine Chloride	50-01-1	4.67E+05	-	5.24E+04	5.24E+04 nc
Guanidine Nitrate	506-93-4	-	-	-	
Guthion	86-50-0	7.01E+04	1.18E+09	7.86E+03	7.86E+03 nc

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR UTILITY WORKER
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
HCDD, 1,2,3,4,6,7,8,-	35822-46-9	No	Yes	1.30E+03	U	3.80E-01	U	1.00E-06	U	4.00E-06	U	1
Haloacetic acids	NA	No	No	-		-		-		-		1
Haloxyfop, Methyl	69806-40-2	No	No	-		-		5.00E-05	U	-		1
Harmony	79277-27-3	No	No	-		-		1.30E-02	U	-		1
Heptachlor	76-44-8	No	Yes	4.50E+00	U	1.30E-03	U	5.00E-04	U	-		1
Heptachlor Epoxide	1024-57-3	No	Yes	9.10E+00	U	2.60E-03	U	1.30E-05	U	-		1
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562-39-4	No	Yes	1.30E+03	U	3.80E-01	U	7.00E-08	U	4.00E-06	U	1
Heptanal, n-	111-71-7	No	Yes	-		-		-		-		1
Heptane, N-	142-82-5	No	Yes	-		-		-		-		1
Heptanol, n-	111-70-6	No	Yes	-		-		-		-		1
Hexabromobenzene	87-82-1	No	Yes	-		-		2.00E-03	U	-		1
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	No	No	-		-		2.00E-04	U	-		1
Hexachlorobenzene	118-74-1	No	Yes	1.60E+00	U	4.60E-04	U	8.00E-04	U	-		1
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Hexachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 157)	69782-90-7	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	No	Yes	3.90E+03	U	1.14E+00	U	2.33E-08	U	1.33E-06	U	1
Hexachlorobutadiene	87-68-3	No	Yes	7.80E-02	U	2.20E-05	U	1.00E-03	U	-		1
Hexachlorocyclohexane, Alpha-	319-84-6	No	No	6.30E+00	U	1.80E-03	U	8.00E-03	U	-		1
Hexachlorocyclohexane, Beta-	319-85-7	No	No	1.80E+00	U	5.30E-04	U	-		-		1
Hexachlorocyclohexane, Delta-	319-86-8	No	No	-		-		-		-		1
Hexachlorocyclohexane, Epsilon	6108-10-7	No	No	-		-		-		-		1
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	No	No	1.10E+00	U	3.10E-04	U	3.00E-04	U	-		1
Hexachlorocyclohexane, Technical	608-73-1	No	No	1.80E+00	U	5.10E-04	U	-		-		1
Hexachlorocyclopentadiene	77-47-4	No	Yes	-		-		6.00E-03	U	2.00E-04	U	1
Hexachlorodibenzo-p-dioxin	34465-46-8	No	No	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	39227-28-6	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
Hexachlorodibenzo-p-dioxin, Mixture	NA	No	No	6.20E+03	U	1.30E+00	U	-		-		1
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
Hexachloroethane	67-72-1	No	Yes	4.00E-02	U	1.10E-05	U	7.00E-04	U	3.00E-02	U	1
Hexachlorophene	70-30-4	No	No	-		-		3.00E-04	U	-		1

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
HCDD, 1,2,3,4,6,7,8,-	35822-46-9	-	1	4.52E+06	-	3.23E+09	1.59E-01	-	3.04E+01	1.58E-01	2.95E+00
Haloacetic acids	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Haloxyfop, Methyl	69806-40-2	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+02
Harmony	79277-27-3	0.1	1	-	-	3.23E+09	-	-	-	-	3.83E+04
Heptachlor	76-44-8	-	1	6.62E+05	-	3.23E+09	4.59E+01	-	1.30E+03	4.43E+01	1.47E+03
Heptachlor Epoxide	1024-57-3	-	1	1.16E+06	-	3.23E+09	2.27E+01	-	1.14E+03	2.22E+01	3.83E+01
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	0.14	1	2.81E+06	-	3.23E+09	5.29E+01	3.00E+02	6.29E+03	4.47E+01	6.87E+01
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562-39-4	0.03	1	1.15E+07	-	3.23E+09	1.59E-01	4.20E+00	7.74E+01	1.53E-01	2.06E-01
Heptanal, n-	111-71-7	-	1	1.08E+04	2.09E+02	3.23E+09	-	-	-	-	-
Heptane, N-	142-82-5	-	1	1.23E+03	5.79E+01	3.23E+09	-	-	-	-	-
Heptanol, n-	111-70-6	-	1	4.73E+04	3.78E+02	3.23E+09	-	-	-	-	-
Hexabromobenzene	87-82-1	-	1	5.24E+05	-	3.23E+09	-	-	-	-	5.90E+03
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+02
Hexachlorobenzene	118-74-1	-	1	9.37E+04	-	3.23E+09	1.29E+02	-	5.21E+02	1.03E+02	2.36E+03
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	0.14	1	1.98E+06	-	3.23E+09	5.29E+01	3.00E+02	4.43E+03	4.45E+01	6.87E+01
Hexachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 157)	69782-90-7	0.14	1	2.00E+06	-	3.23E+09	5.29E+01	3.00E+02	4.48E+03	4.45E+01	6.87E+01
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	0.14	1	2.13E+06	-	3.23E+09	5.29E+01	3.00E+02	4.77E+03	4.46E+01	6.87E+01
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.14	1	1.98E+06	-	3.23E+09	5.29E-02	3.00E-01	4.43E+00	4.45E-02	6.87E-02
Hexachlorobutadiene	87-68-3	-	1	1.49E+04	1.68E+01	3.23E+09	2.65E+03	-	1.73E+03	1.05E+03	2.95E+03
Hexachlorocyclohexane, Alpha-	319-84-6	0.1	1	-	-	3.23E+09	3.28E+01	2.60E+02	4.59E+06	2.91E+01	2.36E+04
Hexachlorocyclohexane, Beta-	319-85-7	0.1	1	-	-	3.23E+09	1.15E+02	9.09E+02	1.56E+07	1.02E+02	-
Hexachlorocyclohexane, Delta-	319-86-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Hexachlorocyclohexane, Epsilon	6108-10-7	0.1	1	-	-	3.23E+09	-	-	-	-	-
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	0.04	1	-	-	3.23E+09	1.88E+02	3.72E+03	2.66E+07	1.79E+02	8.85E+02
Hexachlorocyclohexane, Technical	608-73-1	0.1	1	-	-	3.23E+09	1.15E+02	9.09E+02	1.62E+07	1.02E+02	-
Hexachlorocyclopentadiene	77-47-4	-	1	1.18E+04	1.57E+01	3.23E+09	-	-	-	-	1.77E+04
Hexachlorodibenzo-p-dioxin	34465-46-8	0.03	1	-	-	3.23E+09	1.59E-02	4.20E-01	2.17E+03	1.53E-02	2.06E-02
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	39227-28-6	0.03	1	6.59E+06	-	3.23E+09	1.59E-02	4.20E-01	4.42E+00	1.52E-02	2.06E-02
Hexachlorodibenzo-p-dioxin, Mixture	NA	0.03	1	-	-	3.23E+09	3.33E-02	8.80E-01	6.35E+03	3.21E-02	-
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	0.03	1	5.38E+06	-	3.23E+09	1.59E-02	4.20E-01	3.61E+00	1.52E-02	2.06E-02
Hexachloroethane	67-72-1	-	1	1.10E+04	-	3.23E+09	5.16E+03	-	2.57E+03	1.71E+03	2.06E+03
Hexachlorophene	70-30-4	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+02

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
HCDD, 1,2,3,4,6,7,8,-	35822-46-9	-	6.59E+02	2.94E+00	1.58E-01 ca*
Haloacetic acids	NA	-	-	-	
Haloxyfop, Methyl	69806-40-2	1.17E+03	-	1.31E+02	1.31E+02 nc
Harmony	79277-27-3	3.04E+05	-	3.40E+04	3.40E+04 nc
Heptachlor	76-44-8	-	-	1.47E+03	4.43E+01 ca*
Heptachlor Epoxide	1024-57-3	-	-	3.83E+01	2.22E+01 ca**
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	3.89E+02	1.36E+05	5.84E+01	4.47E+01 ca**
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562-39-4	5.45E+00	1.68E+03	1.99E-01	1.53E-01 ca**
Heptanal, n-	111-71-7	-	-	-	
Heptane, N-	142-82-5	-	-	-	
Heptanol, n-	111-70-6	-	-	-	
Hexabromobenzene	87-82-1	-	-	5.90E+03	5.90E+03 nc
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	4.67E+03	-	5.24E+02	5.24E+02 nc
Hexachlorobenzene	118-74-1	-	-	2.36E+03	1.03E+02 ca*
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	3.89E+02	9.59E+04	5.84E+01	4.45E+01 ca**
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	3.89E+02	9.71E+04	5.84E+01	4.45E+01 ca**
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	3.89E+02	1.03E+05	5.84E+01	4.46E+01 ca**
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	3.89E-01	9.59E+01	5.84E-02	4.45E-02 ca**
Hexachlorobutadiene	87-68-3	-	-	2.95E+03	1.05E+03 sat
Hexachlorocyclohexane, Alpha-	319-84-6	1.87E+05	-	2.10E+04	2.91E+01 ca
Hexachlorocyclohexane, Beta-	319-85-7	-	-	-	1.02E+02 ca
Hexachlorocyclohexane, Delta-	319-86-8	-	-	-	
Hexachlorocyclohexane, Epsilon	6108-10-7	-	-	-	
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	1.75E+04	-	8.42E+02	1.79E+02 ca**
Hexachlorocyclohexane, Technical	608-73-1	-	-	-	1.02E+02 ca
Hexachlorocyclopentadiene	77-47-4	-	8.58E+01	8.54E+01	8.54E+01 sat
Hexachlorodibenzo-p-dioxin	34465-46-8	5.45E-01	4.72E+04	1.99E-02	1.53E-02 ca**
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	39227-28-6	5.45E-01	9.61E+01	1.99E-02	1.52E-02 ca**
Hexachlorodibenzo-p-dioxin, Mixture	NA	-	-	-	3.21E-02 ca
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	5.45E-01	7.85E+01	1.99E-02	1.52E-02 ca**
Hexachloroethane	67-72-1	-	1.21E+04	1.76E+03	1.71E+03 ca**
Hexachlorophene	70-30-4	7.01E+03	-	7.86E+02	7.86E+02 nc

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Hexachloropropene	1888-71-7	No	Yes	-		-		-		-		1
Hexadecanoic Acid	57-10-3	No	Yes	-		-		-		-		1
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	No	No	1.10E-01	U	-		3.00E-03	U	-		1
Hexamethylene Diisocyanate, 1,6-	822-06-0	No	Yes	-		-		-		1.00E-05	U	1
Hexamethylphosphoramide	680-31-9	No	No	-		-		4.00E-04	U	-		1
Hexane, N-	110-54-3	No	Yes	-		-		6.00E-02	U	7.00E-01	U	1
Hexanedioic Acid	124-04-9	No	No	-		-		2.00E+00	U	-		1
Hexanol, n-	111-27-3	No	Yes	-		-		-		-		1
Hexanone, 2-	591-78-6	No	Yes	-		-		5.00E-03	U	3.00E-02	U	1
Hexazinone	51235-04-2	No	No	-		-		3.30E-02	U	-		1
HpCDD, 2,3,7,8-	37871-00-4	No	Yes	1.30E+03	U	3.80E-01	U	7.00E-08	U	4.00E-06	U	1
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	No	Yes	1.30E+03	U	3.80E-01	U	7.00E-08	U	4.00E-06	U	1
HpCDF, 2,3,7,8-	38998-75-3	No	Yes	1.30E+03	U	3.80E-01	U	7.00E-08	U	4.00E-06	U	1
HxCDD, 1,2,3,6,7,8-	57653-85-7	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
HxCDD, 1,2,3,7,8,9-	19408-74-3	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
HxCDF, 1,2,3,6,7,8-	57117-44-9	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
HxCDF, 1,2,3,7,8,9-	72918-21-9	No	No	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
HxCDF, 2,3,4,6,7,8-	60851-34-5	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
HxCDF, 2,3,7,8-	55684-94-1	No	No	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
Hydrazine	302-01-2	No	Yes	3.00E+00	U	4.90E-03	U	-		3.00E-05	U	1
Hydrazine Sulfate	10034-93-2	No	No	3.00E+00	U	4.90E-03	U	-		-		1
Hydrogen Chloride	7647-01-0	No	Yes	-		-		-		2.00E-02	U	1
Hydrogen Cyanide	74-90-8	No	Yes	-		-		6.00E-04	U	8.00E-04	U	1
Hydrogen Fluoride	7664-39-3	No	Yes	-		-		4.00E-02	U	1.40E-02	U	1
Hydrogen Selenide	77830-70-5	No	No	-		-		-		-		1
Hydrogen Sulfate	12143-45-2	No	No	-		-		-		-		1
Hydrogen Sulfide	7783-06-4	No	Yes	-		-		-		2.00E-03	U	1
Hydroquinone	123-31-9	No	No	6.00E-02	U	-		4.00E-02	U	-		1
Imazalil	35554-44-0	No	No	-		-		1.30E-02	U	-		1
Imazaquin	81335-37-7	No	No	-		-		2.50E-01	U	-		1
Indeno[1,2,3-cd]pyrene	193-39-5	Yes	No	7.30E-01	U	1.10E-04	U	-		-		1
Indium	7440-74-6	No	No	-		-		-		-		1
Iodide	20461-54-5	No	No	-		-		-		-		1
Iodine	7553-56-2	No	No	-		-		1.00E-02	U	-		1

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Hexachloropropene	1888-71-7	-	1	1.48E+04	4.37E+01	3.23E+09	-	-	-	-	-
Hexadecanoic Acid	57-10-3	-	1	7.66E+05	-	3.23E+09	-	-	-	-	-
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	0.015	1	-	-	3.23E+09	1.88E+03	9.92E+04	-	1.84E+03	8.85E+03
Hexamethylene Diisocyanate, 1,6-	822-06-0	-	1	4.15E+05	5.19E+03	3.23E+09	-	-	-	-	-
Hexamethylphosphoramide	680-31-9	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+03
Hexane, N-	110-54-3	-	1	1.14E+03	1.41E+02	3.23E+09	-	-	-	-	1.77E+05
Hexanedioic Acid	124-04-9	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+06
Hexanol, n-	111-27-3	-	1	4.03E+04	9.98E+02	3.23E+09	-	-	-	-	-
Hexanone, 2-	591-78-6	-	1	1.83E+04	3.28E+03	3.23E+09	-	-	-	-	1.47E+04
Hexazinone	51235-04-2	0.1	1	-	-	3.23E+09	-	-	-	-	9.73E+04
HpCDD, 2,3,7,8-	37871-00-4	0.03	1	3.36E+06	-	3.23E+09	1.59E-01	4.20E+00	2.26E+01	1.52E-01	2.06E-01
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.03	1	1.15E+07	-	3.23E+09	1.59E-01	4.20E+00	7.74E+01	1.53E-01	2.06E-01
HpCDF, 2,3,7,8-	38998-75-3	0.03	1	1.15E+07	-	3.23E+09	1.59E-01	4.20E+00	7.74E+01	1.53E-01	2.06E-01
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.03	1	6.59E+06	-	3.23E+09	1.59E-02	4.20E-01	4.42E+00	1.52E-02	2.06E-02
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.03	1	6.59E+06	-	3.23E+09	1.59E-02	4.20E-01	4.42E+00	1.52E-02	2.06E-02
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.03	1	5.38E+06	-	3.23E+09	1.59E-02	4.20E-01	3.61E+00	1.52E-02	2.06E-02
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.03	1	-	-	3.23E+09	1.59E-02	4.20E-01	2.17E+03	1.53E-02	2.06E-02
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.03	1	5.38E+06	-	3.23E+09	1.59E-02	4.20E-01	3.61E+00	1.52E-02	2.06E-02
HxCDF, 2,3,7,8-	55684-94-1	0.03	1	-	-	3.23E+09	1.59E-02	4.20E-01	2.17E+03	1.53E-02	2.06E-02
Hydrazine	302-01-2	-	1	-	-	3.23E+09	6.88E+01	-	1.69E+06	6.88E+01	-
Hydrazine Sulfate	10034-93-2	-	1	-	-	3.23E+09	6.88E+01	-	1.69E+06	6.88E+01	-
Hydrogen Chloride	7647-01-0	-	1	-	-	3.23E+09	-	-	-	-	-
Hydrogen Cyanide	74-90-8	-	1	7.20E+04	1.00E+07	3.23E+09	-	-	-	-	1.77E+03
Hydrogen Fluoride	7664-39-3	-	1	-	-	3.23E+09	-	-	-	-	1.18E+05
Hydrogen Selenide	77830-70-5	-	1	-	-	3.23E+09	-	-	-	-	-
Hydrogen Sulfate	12143-45-2	-	1	-	-	3.23E+09	-	-	-	-	-
Hydrogen Sulfide	7783-06-4	-	1	-	-	3.23E+09	-	-	-	-	-
Hydroquinone	123-31-9	0.1	1	-	-	3.23E+09	3.44E+03	2.73E+04	-	3.06E+03	1.18E+05
Imazalil	35554-44-0	0.1	1	-	-	3.23E+09	-	-	-	-	3.83E+04
Imazaquin	81335-37-7	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+05
Indeno[1,2,3-cd]pyrene	193-39-5	0.13	1	-	-	3.23E+09	2.83E+02	1.72E+03	7.51E+07	2.43E+02	-
Indium	7440-74-6	-	1	-	-	3.23E+09	-	-	-	-	-
Iodide	20461-54-5	-	1	-	-	3.23E+09	-	-	-	-	-
Iodine	7553-56-2	-	1	-	-	3.23E+09	-	-	-	-	2.95E+04

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Hexachloropropene	1888-71-7	-	-	-	
Hexadecanoic Acid	57-10-3	-	-	-	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	4.67E+05	-	8.68E+03	1.84E+03 ca**
Hexamethylene Diisocyanate, 1,6-	822-06-0	-	1.51E+02	1.51E+02	1.51E+02 nc
Hexamethylphosphoramide	680-31-9	9.35E+03	-	1.05E+03	1.05E+03 nc
Hexane, N-	110-54-3	-	2.92E+04	2.51E+04	2.51E+04 sat
Hexanedioic Acid	124-04-9	4.67E+07	-	5.24E+06	5.24E+06 max
Hexanol, n-	111-27-3	-	-	-	
Hexanone, 2-	591-78-6	-	2.01E+04	8.50E+03	8.50E+03 sat
Hexazinone	51235-04-2	7.71E+05	-	8.64E+04	8.64E+04 nc
HpCDD, 2,3,7,8-	37871-00-4	5.45E+00	4.90E+02	1.99E-01	1.52E-01 ca**
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	5.45E+00	1.68E+03	1.99E-01	1.53E-01 ca**
HpCDF, 2,3,7,8-	38998-75-3	5.45E+00	1.68E+03	1.99E-01	1.53E-01 ca**
HxCDD, 1,2,3,6,7,8-	57653-85-7	5.45E-01	9.61E+01	1.99E-02	1.52E-02 ca**
HxCDD, 1,2,3,7,8,9-	19408-74-3	5.45E-01	9.61E+01	1.99E-02	1.52E-02 ca**
HxCDF, 1,2,3,6,7,8-	57117-44-9	5.45E-01	7.85E+01	1.99E-02	1.52E-02 ca**
HxCDF, 1,2,3,7,8,9-	72918-21-9	5.45E-01	4.72E+04	1.99E-02	1.53E-02 ca**
HxCDF, 2,3,4,6,7,8-	60851-34-5	5.45E-01	7.85E+01	1.99E-02	1.52E-02 ca**
HxCDF, 2,3,7,8-	55684-94-1	5.45E-01	4.72E+04	1.99E-02	1.53E-02 ca**
Hydrazine	302-01-2	-	3.54E+06	3.54E+06	6.88E+01 ca
Hydrazine Sulfate	10034-93-2	-	-	-	6.88E+01 ca
Hydrogen Chloride	7647-01-0	-	2.36E+09	2.36E+09	2.36E+09 max
Hydrogen Cyanide	74-90-8	-	2.10E+03	9.61E+02	9.61E+02 nc
Hydrogen Fluoride	7664-39-3	-	1.65E+09	1.18E+05	1.18E+05 max
Hydrogen Selenide	77830-70-5	-	-	-	
Hydrogen Sulfate	12143-45-2	-	-	-	
Hydrogen Sulfide	7783-06-4	-	2.36E+08	2.36E+08	2.36E+08 max
Hydroquinone	123-31-9	9.35E+05	-	1.05E+05	3.06E+03 ca*
Imazalil	35554-44-0	3.04E+05	-	3.40E+04	3.40E+04 nc
Imazaquin	81335-37-7	5.84E+06	-	6.55E+05	6.55E+05 max
Indeno[1,2,3-cd]pyrene	193-39-5	-	-	-	2.43E+02 ca
Indium	7440-74-6	-	-	-	
Iodide	20461-54-5	-	-	-	
Iodine	7553-56-2	-	-	2.95E+04	2.95E+04 nc

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR UTILITY WORKER
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Iodomethane	74-88-4	No	Yes	-		-		-		-		1
Iodopropynyl Butylcarbamate (IPBC)	55406-53-6	No	No	-		-		-		-		1
Iprodione	36734-19-7	No	No	-		-		4.00E-02	U	-		1
Iron	7439-89-6	No	No	-		-		7.00E-01	U	-		1
Iron Sulfide	11126-12-8	No	No	-		-		-		-		1
Isobutyl Alcohol	78-83-1	No	Yes	-		-		3.00E-01	U	-		1
Isodrin	465-73-6	No	Yes	-		-		-		-		1
Isophorone	78-59-1	No	No	9.50E-04	U	-		2.00E-01	U	2.00E+00	U	1
Isopropalin	33820-53-0	No	Yes	-		-		1.50E-02	U	-		1
Isopropanol	67-63-0	No	Yes	-		-		2.00E+00	U	2.00E-01	U	1
Isopropyl Methyl Phosphonic Acid	1832-54-8	No	No	-		-		1.00E-01	U	-		1
Isopropyltoluene, p-	99-87-6	No	Yes	-		-		-		-		1
Isosafrole	120-58-1	No	Yes	-		-		-		-		1
Isoxaben	82558-50-7	No	No	-		-		5.00E-02	U	-		1
JP-4	50815-00-4	No	Yes	-		-		-		-		1
JP-5/JP-8	8002-20-6	No	Yes	-		-		-		-		1
JP-7	NA	No	Yes	-		-		-		3.00E-01	U	1
Kerb	23950-58-5	No	No	-		-		7.50E-02	U	-		1
Kerosene	8008-20-6	No	Yes	-		-		-		-		1
Lactofen	77501-63-4	No	No	-		-		2.00E-03	U	-		1
Lactonitrile	78-97-7	No	No	-		-		-		-		1
Lanthanum	7439-91-0	No	No	-		-		-		-		1
Lead Alkyls	NA	No	No	-		-		-		-		1
Lead Chromate	7758-97-6	Yes	No	5.00E-01	U	1.50E-01	U	2.00E-02	U	2.00E-04	U	0.025
Lead Phosphate	7446-27-7	No	No	8.50E-03	U	1.20E-05	U	-		-		1
Lead acetate	301-04-2	No	No	2.80E-01	U	8.00E-05	U	-		-		1
Lead and Compounds	7439-92-1	No	No	-		-		-		-		1
Lead subacetate	1335-32-6	No	No	8.50E-03	U	1.20E-05	U	-		-		1
Linuron	330-55-2	No	No	-		-		2.00E-03	U	-		1
Lithium	7439-93-2	No	No	-		-		2.00E-03	U	-		1
Lithium Perchlorate	7791-03-9	No	No	-		-		7.00E-04	U	-		1
Londax	83055-99-6	No	No	-		-		2.00E-01	U	-		1
Lutetium	7439-94-3	No	No	-		-		-		-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Iodomethane	74-88-4	-	1	2.55E+03	3.03E+03	3.23E+09	-	-	-	-	-
Iodopropynyl Butylcarbamate (IPBC)	55406-53-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Iprodione	36734-19-7	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+05
Iron	7439-89-6	-	1	-	-	3.23E+09	-	-	-	-	2.06E+06
Iron Sulfide	11126-12-8	-	1	-	-	3.23E+09	-	-	-	-	-
Isobutyl Alcohol	78-83-1	-	1	3.88E+04	1.00E+04	3.23E+09	-	-	-	-	8.85E+05
Isodrin	465-73-6	-	1	2.32E+06	-	3.23E+09	-	-	-	-	-
Isophorone	78-59-1	0.1	1	-	-	3.23E+09	2.17E+05	1.72E+06	-	1.93E+05	5.90E+05
Isopropalin	33820-53-0	-	1	5.78E+05	-	3.23E+09	-	-	-	-	4.42E+04
Isopropanol	67-63-0	-	1	3.83E+04	1.09E+05	3.23E+09	-	-	-	-	5.90E+06
Isopropyl Methyl Phosphonic Acid	1832-54-8	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Isopropyltoluene, p-	99-87-6	-	1	1.18E+04	1.62E+02	3.23E+09	-	-	-	-	-
Isosafrole	120-58-1	-	1	3.42E+03	2.04E+01	3.23E+09	-	-	-	-	-
Isoxaben	82558-50-7	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+05
JP-4	50815-00-4	-	1	-	-	3.23E+09	-	-	-	-	-
JP-5/JP-8	8002-20-6	-	1	-	-	3.23E+09	-	-	-	-	-
JP-7	NA	-	1	-	-	3.23E+09	-	-	-	-	-
Kerb	23950-58-5	0.1	1	-	-	3.23E+09	-	-	-	-	2.21E+05
Kerosene	8008-20-6	-	1	-	-	3.23E+09	-	-	-	-	-
Lactofen	77501-63-4	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Lactonitrile	78-97-7	0.1	1	-	-	3.23E+09	-	-	-	-	-
Lanthanum	7439-91-0	-	1	-	-	3.23E+09	-	-	-	-	-
Lead Alkyls	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Lead Chromate	7758-97-6	-	1	-	-	3.23E+09	4.13E+02	-	5.51E+04	4.10E+02	5.90E+04
Lead Phosphate	7446-27-7	-	1	-	-	3.23E+09	2.43E+04	-	6.88E+08	2.43E+04	-
Lead acetate	301-04-2	0.1	1	-	-	3.23E+09	7.37E+02	5.84E+03	1.03E+08	6.55E+02	-
Lead and Compounds	7439-92-1	-	1	-	-	3.23E+09	-	-	-	-	-
Lead subacetate	1335-32-6	0.1	1	-	-	3.23E+09	2.43E+04	1.92E+05	6.88E+08	2.16E+04	-
Linuron	330-55-2	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Lithium	7439-93-2	-	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Lithium Perchlorate	7791-03-9	-	1	-	-	3.23E+09	-	-	-	-	2.06E+03
Londax	83055-99-6	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+05
Lutetium	7439-94-3	-	1	-	-	3.23E+09	-	-	-	-	-

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Iodomethane	74-88-4	-	-	-	
Iodopropynyl Butylcarbamate (IPBC)	55406-53-6	-	-	-	
Iprodione	36734-19-7	9.35E+05	-	1.05E+05	1.05E+05 max
Iron	7439-89-6	-	-	2.06E+06	2.06E+06 max
Iron Sulfide	11126-12-8	-	-	-	
Isobutyl Alcohol	78-83-1	-	-	8.85E+05	8.85E+05 sat
Isodrin	465-73-6	-	-	-	
Isophorone	78-59-1	4.67E+06	2.36E+11	5.24E+05	1.93E+05 max
Isopropalin	33820-53-0	-	-	4.42E+04	4.42E+04 nc
Isopropanol	67-63-0	-	2.79E+05	2.67E+05	2.67E+05 sat
Isopropyl Methyl Phosphonic Acid	1832-54-8	2.34E+06	-	2.62E+05	2.62E+05 max
Isopropyltoluene, p-	99-87-6	-	-	-	
Isosafrole	120-58-1	-	-	-	
Isoxaben	82558-50-7	1.17E+06	-	1.31E+05	1.31E+05 max
JP-4	50815-00-4	-	-	-	
JP-5/JP-8	8002-20-6	-	-	-	
JP-7	NA	-	3.54E+10	3.54E+10	3.54E+10 max
Kerb	23950-58-5	1.75E+06	-	1.96E+05	1.96E+05 max
Kerosene	8008-20-6	-	-	-	
Lactofen	77501-63-4	4.67E+04	-	5.24E+03	5.24E+03 nc
Lactonitrile	78-97-7	-	-	-	
Lanthanum	7439-91-0	-	-	-	
Lead Alkyls	NA	-	-	-	
Lead Chromate	7758-97-6	-	2.36E+07	5.88E+04	4.10E+02 ca
Lead Phosphate	7446-27-7	-	-	-	2.43E+04 ca
Lead acetate	301-04-2	-	-	-	6.55E+02 ca
Lead and Compounds	7439-92-1	-	-	8.00E+02	8.00E+02 nc
Lead subacetate	1335-32-6	-	-	-	2.16E+04 ca
Linuron	330-55-2	4.67E+04	-	5.24E+03	5.24E+03 nc
Lithium	7439-93-2	-	-	5.90E+03	5.90E+03 nc
Lithium Perchlorate	7791-03-9	-	-	2.06E+03	2.06E+03 nc
Londax	83055-99-6	4.67E+06	-	5.24E+05	5.24E+05 max
Lutetium	7439-94-3	-	-	-	

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
MCPA	94-74-6	No	No	-		-		5.00E-04	U	-		1
MCPB	94-81-5	No	No	-		-		1.00E-02	U	-		1
MCPP	93-65-2	No	No	-		-		1.00E-03	U	-		1
Magnesium	7439-95-4	No	No	-		-		-		-		1
Magnesium Chlorate	10326-21-3	No	No	-		-		-		-		1
Malathion	121-75-5	No	No	-		-		2.00E-02	U	-		1
Maleic Anhydride	108-31-6	No	No	-		-		1.00E-01	U	7.00E-04	U	1
Maleic Hydrazide	123-33-1	No	No	-		-		5.00E-01	U	-		1
Malononitrile	109-77-3	No	No	-		-		1.00E-04	U	-		1
Mancozeb	8018-01-7	No	No	-		-		3.00E-02	U	-		1
Maneb	12427-38-2	No	No	-		-		5.00E-03	U	-		1
Manganese (Non-diet)	7439-96-5	No	No	-		-		2.40E-02	U	5.00E-05	U	0.04
Mechlorethamine	51-75-2	No	No	-		-		-		-		1
Mephosfolan	950-10-7	No	No	-		-		9.00E-05	U	-		1
Mepiquat Chloride	24307-26-4	No	No	-		-		3.00E-02	U	-		1
Mercuric Chloride	7487-94-7	No	No	-		-		3.00E-04	U	3.00E-04	U	0.07
Mercury (elemental)	7439-97-6	No	Yes	-		-		-		3.00E-04	U	1
Merphos	150-50-5	No	Yes	-		-		3.00E-05	U	-		1
Merphos Oxide	78-48-8	No	No	-		-		3.00E-05	U	-		1
Metalaxyl	57837-19-1	No	No	-		-		6.00E-02	U	-		1
Methacrylonitrile	126-98-7	No	Yes	-		-		1.00E-04	U	3.00E-02	U	1
Methamidophos	10265-92-6	No	No	-		-		5.00E-05	U	-		1
Methanol	67-56-1	No	Yes	-		-		2.00E+00	U	2.00E+01	U	1
Methapyrilene	91-80-5	No	No	-		-		-		-		1
Methidathion	950-37-8	No	No	-		-		1.00E-03	U	-		1
Methomyl	16752-77-5	No	No	-		-		2.50E-02	U	-		1
Methoxy-5-nitroaniline, 2-	99-59-2	No	No	4.90E-02	U	1.40E-05	U	-		-		1
Methoxychlor	72-43-5	No	No	-		-		5.00E-03	U	-		1
Methoxyethanol Acetate, 2-	110-49-6	No	Yes	-		-		8.00E-03	U	1.00E-03	U	1
Methoxyethanol, 2-	109-86-4	No	Yes	-		-		5.00E-03	U	2.00E-02	U	1
Methyl Acetate	79-20-9	No	Yes	-		-		1.00E+00	U	-		1
Methyl Acrylate	96-33-3	No	Yes	-		-		3.00E-02	U	2.00E-02	U	1
Methyl Ethyl Ketone (2-Butanone)	78-93-3	No	Yes	-		-		6.00E-01	U	5.00E+00	U	1
Methyl Hydrazine	60-34-4	No	Yes	-		1.00E-03	U	1.00E-03	U	2.00E-05	U	1

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
MCPA	94-74-6	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+03
MCPB	94-81-5	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
MCPP	93-65-2	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Magnesium	7439-95-4	-	1	-	-	3.23E+09	-	-	-	-	-
Magnesium Chlorate	10326-21-3	-	1	-	-	3.23E+09	-	-	-	-	-
Malathion	121-75-5	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Maleic Anhydride	108-31-6	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Maleic Hydrazide	123-33-1	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+06
Malononitrile	109-77-3	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+02
Mancozeb	8018-01-7	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Maneb	12427-38-2	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Manganese (Non-diet)	7439-96-5	-	1	-	-	3.23E+09	-	-	-	-	7.08E+04
Mechlorethamine	51-75-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Mephosfolan	950-10-7	0.1	1	-	-	3.23E+09	-	-	-	-	2.65E+02
Mepiquat Chloride	24307-26-4	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Mercuric Chloride	7487-94-7	-	1	-	-	3.23E+09	-	-	-	-	8.85E+02
Mercury (elemental)	7439-97-6	-	1	4.16E+04	3.13E+00	3.23E+09	-	-	-	-	-
Merphos	150-50-5	-	1	2.67E+06	-	3.23E+09	-	-	-	-	8.85E+01
Merphos Oxide	78-48-8	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+01
Metalaxyl	57837-19-1	0.1	1	-	-	3.23E+09	-	-	-	-	1.77E+05
Methacrylonitrile	126-98-7	-	1	9.38E+03	4.59E+03	3.23E+09	-	-	-	-	2.95E+02
Methamidophos	10265-92-6	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+02
Methanol	67-56-1	-	1	4.01E+04	1.06E+05	3.23E+09	-	-	-	-	5.90E+06
Methapyrilene	91-80-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Methidathion	950-37-8	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Methomyl	16752-77-5	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+04
Methoxy-5-nitroaniline, 2-	99-59-2	0.1	1	-	-	3.23E+09	4.21E+03	3.34E+04	5.90E+08	3.74E+03	-
Methoxychlor	72-43-5	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Methoxyethanol Acetate, 2-	110-49-6	-	1	1.71E+05	1.15E+05	3.23E+09	-	-	-	-	2.36E+04
Methoxyethanol, 2-	109-86-4	-	1	1.39E+05	1.06E+05	3.23E+09	-	-	-	-	1.47E+04
Methyl Acetate	79-20-9	-	1	1.12E+04	2.90E+04	3.23E+09	-	-	-	-	2.95E+06
Methyl Acrylate	96-33-3	-	1	9.62E+03	6.75E+03	3.23E+09	-	-	-	-	8.85E+04
Methyl Ethyl Ketone (2-Butanone)	78-93-3	-	1	1.68E+04	2.84E+04	3.23E+09	-	-	-	-	1.77E+06
Methyl Hydrazine	60-34-4	-	1	2.16E+05	1.80E+05	3.23E+09	-	-	5.51E+02	5.51E+02	2.95E+03

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
MCPA	94-74-6	1.17E+04	-	1.31E+03	1.31E+03 nc
MCPB	94-81-5	2.34E+05	-	2.62E+04	2.62E+04 nc
MCPP	93-65-2	2.34E+04	-	2.62E+03	2.62E+03 nc
Magnesium	7439-95-4	-	-	-	
Magnesium Chlorate	10326-21-3	-	-	-	
Malathion	121-75-5	4.67E+05	-	5.24E+04	5.24E+04 nc
Maleic Anhydride	108-31-6	2.34E+06	8.26E+07	2.61E+05	2.61E+05 max
Maleic Hydrazide	123-33-1	1.17E+07	-	1.31E+06	1.31E+06 max
Malononitrile	109-77-3	2.34E+03	-	2.62E+02	2.62E+02 nc
Mancozeb	8018-01-7	7.01E+05	-	7.86E+04	7.86E+04 nc
Maneb	12427-38-2	1.17E+05	-	1.31E+04	1.31E+04 nc
Manganese (Non-diet)	7439-96-5	-	5.90E+06	6.99E+04	6.99E+04 nc
Mechlorethamine	51-75-2	-	-	-	
Mephosfolan	950-10-7	2.10E+03	-	2.36E+02	2.36E+02 nc
Mepiquat Chloride	24307-26-4	7.01E+05	-	7.86E+04	7.86E+04 nc
Mercuric Chloride	7487-94-7	-	3.54E+07	8.85E+02	8.85E+02 nc
Mercury (elemental)	7439-97-6	-	4.55E+02	4.55E+02	4.55E+02 sat
Merphos	150-50-5	-	-	8.85E+01	8.85E+01 nc
Merphos Oxide	78-48-8	7.01E+02	-	7.86E+01	7.86E+01 nc
Metalaxyl	57837-19-1	1.40E+06	-	1.57E+05	1.57E+05 max
Methacrylonitrile	126-98-7	-	1.03E+04	2.87E+02	2.87E+02 nc
Methamidophos	10265-92-6	1.17E+03	-	1.31E+02	1.31E+02 nc
Methanol	67-56-1	-	2.93E+07	4.91E+06	4.91E+06 sat
Methapyrilene	91-80-5	-	-	-	
Methidathion	950-37-8	2.34E+04	-	2.62E+03	2.62E+03 nc
Methomyl	16752-77-5	5.84E+05	-	6.55E+04	6.55E+04 nc
Methoxy-5-nitroaniline, 2-	99-59-2	-	-	-	3.74E+03 ca
Methoxychlor	72-43-5	1.17E+05	-	1.31E+04	1.31E+04 nc
Methoxyethanol Acetate, 2-	110-49-6	-	6.23E+03	4.93E+03	4.93E+03 nc
Methoxyethanol, 2-	109-86-4	-	1.02E+05	1.29E+04	1.29E+04 nc
Methyl Acetate	79-20-9	-	-	2.95E+06	2.95E+06 sat
Methyl Acrylate	96-33-3	-	7.02E+03	6.50E+03	6.50E+03 nc
Methyl Ethyl Ketone (2-Butanone)	78-93-3	-	3.07E+06	1.12E+06	1.12E+06 sat
Methyl Hydrazine	60-34-4	-	1.57E+02	1.49E+02	1.49E+02 nc

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR UTILITY WORKER
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	No	Yes	-		-		8.00E-02	U	3.00E+00	U	1
Methyl Isocyanate	624-83-9	No	Yes	-		-		-		1.00E-03	U	1
Methyl Mercaptan	74-93-1	No	Yes	-		-		-		-		1
Methyl Mercury	22967-92-6	No	No	-		-		1.00E-04	U	-		1
Methyl Methacrylate	80-62-6	No	Yes	-		-		1.40E+00	U	7.00E-01	U	1
Methyl Parathion	298-00-0	No	No	-		-		2.50E-04	U	-		1
Methyl Phosphonic Acid	993-13-5	No	No	-		-		6.00E-02	U	-		1
Methyl Styrene (Mixed Isomers)	25013-15-4	No	Yes	-		-		6.00E-03	U	4.00E-02	U	1
Methyl dicyclohexylamine, n-	7560-83-0	No	Yes	-		-		-		-		1
Methyl methanesulfonate	66-27-3	No	No	9.90E-02	U	2.80E-05	U	-		-		1
Methyl tert-Butyl Ether (MTBE)	1634-04-4	No	Yes	1.80E-03	U	2.60E-07	U	-		3.00E+00	U	1
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	No	No	-		-		3.00E-04	U	-		1
Methyl-2-Pentanol, 4-	108-11-2	No	Yes	-		-		-		-		1
Methyl-5-Nitroaniline, 2-	99-55-8	No	No	9.00E-03	U	-		2.00E-02	U	-		1
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	No	No	8.30E+00	U	2.40E-03	U	-		-		1
Methylaniline Hydrochloride, 2-	636-21-5	No	No	1.30E-01	U	3.70E-05	U	-		-		1
Methylarsonic acid	124-58-3	No	No	-		-		1.00E-02	U	-		1
Methylaziridine, 2-	75-55-8	No	Yes	-		-		-		-		1
Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7	No	No	-		-		2.00E-04	U	-		1
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	No	No	1.00E-01	U	-		3.00E-04	U	-		1
Methylcholanthrene, 3-	56-49-5	Yes	No	2.20E+01	U	6.30E-03	U	-		-		1
Methylcyclohexane	108-87-2	No	Yes	-		-		-		-		1
Methylcyclohexylamine, n-	100-60-7	No	Yes	-		-		-		-		1
Methylcyclopentane	96-37-7	No	Yes	-		-		-		-		1
Methylene Chloride	75-09-2	Yes	Yes	2.00E-03	U	1.00E-08	U	6.00E-03	U	6.00E-01	U	1
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	Yes	No	1.00E-01	U	4.30E-04	U	2.00E-03	U	-		1
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	No	No	4.60E-02	U	1.30E-05	U	-		-		1
Methylenebisbenzenamine, 4,4'-	101-77-9	No	No	1.60E+00	U	4.60E-04	U	-		2.00E-02	U	1
Methylenediphenyl Diisocyanate	101-68-8	No	No	-		-		-		6.00E-04	U	1
Methylisothiocyanate	556-61-6	No	Yes	-		-		-		-		1
Methylnaphthalene	1321-94-4	No	Yes	-		-		-		-		1

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	-	1	1.46E+04	3.36E+03	3.23E+09	-	-	-	-	2.36E+05
Methyl Isocyanate	624-83-9	-	1	6.08E+03	1.67E+04	3.23E+09	-	-	-	-	-
Methyl Mercaptan	74-93-1	-	1	2.46E+03	3.13E+03	3.23E+09	-	-	-	-	-
Methyl Mercury	22967-92-6	-	1	-	-	3.23E+09	-	-	-	-	2.95E+02
Methyl Methacrylate	80-62-6	-	1	8.75E+03	2.36E+03	3.23E+09	-	-	-	-	4.13E+06
Methyl Parathion	298-00-0	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+02
Methyl Phosphonic Acid	993-13-5	0.1	1	-	-	3.23E+09	-	-	-	-	1.77E+05
Methyl Styrene (Mixed Isomers)	25013-15-4	-	1	1.65E+04	3.93E+02	3.23E+09	-	-	-	-	1.77E+04
Methyl dicyclohexylamine, n-	7560-83-0	-	1	6.54E+04	-	3.23E+09	-	-	-	-	-
Methyl methanesulfonate	66-27-3	0.1	1	-	-	3.23E+09	2.09E+03	1.65E+04	2.95E+08	1.85E+03	-
Methyl tert-Butyl Ether (MTBE)	1634-04-4	-	1	6.76E+03	8.88E+03	3.23E+09	1.15E+05	-	6.65E+04	4.21E+04	-
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+02
Methyl-2-Pentanol, 4-	108-11-2	-	1	2.37E+04	2.45E+03	3.23E+09	-	-	-	-	-
Methyl-5-Nitroaniline, 2-	99-55-8	0.1	1	-	-	3.23E+09	2.29E+04	1.82E+05	-	2.04E+04	5.90E+04
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	0.1	1	-	-	3.23E+09	2.49E+01	1.97E+02	3.44E+06	2.21E+01	-
Methylaniline Hydrochloride, 2-	636-21-5	0.1	1	-	-	3.23E+09	1.59E+03	1.26E+04	2.23E+08	1.41E+03	-
Methylarsonic acid	124-58-3	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Methylaziridine, 2-	75-55-8	-	1	4.41E+04	1.87E+05	3.23E+09	-	-	-	-	-
Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+02
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	0.1	1	-	-	3.23E+09	2.06E+03	1.64E+04	-	1.83E+03	8.85E+02
Methylcholanthrene, 3-	56-49-5	0.1	1	-	-	3.23E+09	9.38E+00	7.44E+01	1.31E+06	8.33E+00	-
Methylcyclohexane	108-87-2	-	1	1.37E+03	6.77E+01	3.23E+09	-	-	-	-	-
Methylcyclohexylamine, n-	100-60-7	-	1	4.39E+04	2.81E+04	3.23E+09	-	-	-	-	-
Methylcyclopentane	96-37-7	-	1	1.22E+03	1.54E+02	3.23E+09	-	-	-	-	-
Methylene Chloride	75-09-2	-	1	3.02E+03	3.32E+03	3.23E+09	1.03E+05	-	7.72E+05	9.11E+04	1.77E+04
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	0.1	1	-	-	3.23E+09	2.06E+03	1.64E+04	1.92E+07	1.83E+03	5.90E+03
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	0.1	1	-	-	3.23E+09	4.49E+03	3.56E+04	6.35E+08	3.99E+03	-
Methylenebisbenzenamine, 4,4'-	101-77-9	0.1	1	-	-	3.23E+09	1.29E+02	1.02E+03	1.80E+07	1.15E+02	-
Methylenediphenyl Diisocyanate	101-68-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Methylisothiocyanate	556-61-6	-	1	2.04E+04	-	3.23E+09	-	-	-	-	-
Methylnaphthalene	1321-94-4	-	1	8.08E+04	-	3.23E+09	-	-	-	-	-

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	-	1.60E+06	2.06E+05	2.06E+05 sat
Methyl Isocyanate	624-83-9	-	2.22E+02	2.22E+02	2.22E+02 nc
Methyl Mercaptan	74-93-1	-	-	-	
Methyl Mercury	22967-92-6	-	-	2.95E+02	2.95E+02 nc
Methyl Methacrylate	80-62-6	-	2.24E+05	2.12E+05	2.12E+05 sat
Methyl Parathion	298-00-0	5.84E+03	-	6.55E+02	6.55E+02 nc
Methyl Phosphonic Acid	993-13-5	1.40E+06	-	1.57E+05	1.57E+05 max
Methyl Styrene (Mixed Isomers)	25013-15-4	-	2.42E+04	1.02E+04	1.02E+04 sat
Methyl dicyclohexylamine, n-	7560-83-0	-	-	-	
Methyl methanesulfonate	66-27-3	-	-	-	1.85E+03 ca
Methyl tert-Butyl Ether (MTBE)	1634-04-4	-	7.41E+05	7.41E+05	4.21E+04 sat
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	7.01E+03	-	7.86E+02	7.86E+02 nc
Methyl-2-Pentanol, 4-	108-11-2	-	-	-	
Methyl-5-Nitroaniline, 2-	99-55-8	4.67E+05	-	5.24E+04	2.04E+04 ca**
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	-	-	-	2.21E+01 ca
Methylaniline Hydrochloride, 2-	636-21-5	-	-	-	1.41E+03 ca
Methylarsonic acid	124-58-3	2.34E+05	-	2.62E+04	2.62E+04 nc
Methylaziridine, 2-	75-55-8	-	-	-	
Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7	4.67E+03	-	5.24E+02	5.24E+02 nc
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	7.01E+03	-	7.86E+02	7.86E+02 nc
Methylcholanthrene, 3-	56-49-5	-	-	-	8.33E+00 ca
Methylcyclohexane	108-87-2	-	-	-	
Methylcyclohexylamine, n-	100-60-7	-	-	-	
Methylcyclopentane	96-37-7	-	-	-	
Methylene Chloride	75-09-2	-	6.62E+04	1.40E+04	1.40E+04 sat
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	4.67E+04	-	5.24E+03	1.83E+03 ca**
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	-	-	-	3.99E+03 ca
Methylenebisbenzenamine, 4,4'-	101-77-9	-	2.36E+09	2.36E+09	1.15E+02 ca
Methylenediphenyl Diisocyanate	101-68-8	-	7.08E+07	7.08E+07	7.08E+07 max
Methylisothiocyanate	556-61-6	-	-	-	
Methylnaphthalene	1321-94-4	-	-	-	

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR UTILITY WORKER
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Methylnaphthalene, 1-	90-12-0	No	Yes	2.90E-02	U	-		7.00E-02	U	-		1
Methylnaphthalene, 2-	91-57-6	No	Yes	-		-		4.00E-03	U	-		1
Methylstyrene, Alpha-	98-83-9	No	Yes	-		-		7.00E-02	U	-		1
Methyltriethyl Lead	1762-28-3	No	Yes	-		-		-		-		1
Metolachlor	51218-45-2	No	No	-		-		1.50E-01	U	-		1
Metribuzin	21087-64-9	No	No	-		-		2.50E-02	U	-		1
Mineral oils	8012-95-1	No	Yes	-		-		3.00E+00	U	-		1
Mirex	2385-85-5	No	Yes	1.80E+01	U	5.10E-03	U	2.00E-04	U	-		1
Molinate	2212-67-1	No	No	-		-		2.00E-03	U	-		1
Molybdenum	7439-98-7	No	No	-		-		5.00E-03	U	-		1
Monoaluminum phosphate	13530-50-2	No	No	-		-		4.86E+01	U	-		1
Monoammonium phosphate	7722-76-1	No	No	-		-		4.86E+01	U	-		1
Monobutyltin Compounds	NA	No	No	-		-		-		-		1
Monocalcium phosphate	7758-23-8	No	No	-		-		4.86E+01	U	-		1
Monochloramine	10599-90-3	No	No	-		-		1.00E-01	U	-		1
Monochlorobutanes	25154-42-1	No	No	-		-		-		-		1
Monochlorophenols (total)	NA	No	No	-		-		-		-		1
Monocyclic aromatic hydrocarbons (total)	NA	No	No	-		-		-		-		1
Monomagnesium phosphate	7757-86-0	No	No	-		-		4.86E+01	U	-		1
Monomethylaniline	100-61-8	No	No	-		-		2.00E-03	U	-		1
Monopotassium phosphate	7778-77-0	No	No	-		-		4.86E+01	U	-		1
Monosodium phosphate	7558-80-7	No	No	-		-		4.86E+01	U	-		1
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	No	No	-		-		3.00E-04	U	-		1
N-Methyl dithiocarbamate	137-42-8	No	No	-		-		-		-		1
Naled	300-76-5	No	Yes	-		-		2.00E-03	U	-		1
Naphtha, High Flash Aromatic (HFAN)	64742-95-6	No	Yes	-		-		3.00E-02	U	1.00E-01	U	1
Naphthalene	91-20-3	No	Yes	-		3.40E-05	U	2.00E-02	U	3.00E-03	U	1
Naphthol, 2-	135-19-3	No	No	-		-		-		-		1
Naphthoquinone, 1,4-	130-15-4	No	No	-		-		-		-		1
Naphthylamine, 1-	134-32-7	No	No	-		-		-		-		1
Naphthylamine, 2-	91-59-8	No	No	1.80E+00	U	0.00E+00	U	-		-		1
Napropamide	15299-99-7	No	No	-		-		1.00E-01	U	-		1
Neodymium Chloride (Stable, Nonradioactive)	10024-93-8	No	No	-		-		-		-		1
Niagara Blue 4B	2429-74-5	No	No	-		-		-		-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Methylnaphthalene, 1-	90-12-0	0.13	1	8.09E+04	-	3.23E+09	7.12E+03	4.34E+04	-	6.12E+03	2.06E+05
Methylnaphthalene, 2-	91-57-6	0.13	1	8.00E+04	-	3.23E+09	-	-	-	-	1.18E+04
Methylstyrene, Alpha-	98-83-9	-	1	1.77E+04	5.00E+02	3.23E+09	-	-	-	-	2.06E+05
Methyltriethyl Lead	1762-28-3	-	1	2.24E+03	4.81E+03	3.23E+09	-	-	-	-	-
Metolachlor	51218-45-2	0.1	1	-	-	3.23E+09	-	-	-	-	4.42E+05
Metribuzin	21087-64-9	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+04
Mineral oils	8012-95-1	-	1	1.90E+03	3.41E-01	3.23E+09	-	-	-	-	8.85E+06
Mirex	2385-85-5	-	1	1.18E+06	-	3.23E+09	1.15E+01	-	5.92E+02	1.13E+01	5.90E+02
Molinate	2212-67-1	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Molybdenum	7439-98-7	-	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Monoaluminum phosphate	13530-50-2	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Monoammonium phosphate	7722-76-1	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Monobutyltin Compounds	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Monocalcium phosphate	7758-23-8	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Monochloramine	10599-90-3	-	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Monochlorobutanes	25154-42-1	0.1	1	-	-	3.23E+09	-	-	-	-	-
Monochlorophenols (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Monocyclic aromatic hydrocarbons (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Monomagnesium phosphate	7757-86-0	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Monomethylaniline	100-61-8	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Monopotassium phosphate	7778-77-0	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Monosodium phosphate	7558-80-7	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+02
N-Methyl dithiocarbamate	137-42-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Naled	300-76-5	-	1	7.87E+04	-	3.23E+09	-	-	-	-	5.90E+03
Naphtha, High Flash Aromatic (HFAN)	64742-95-6	-	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Naphthalene	91-20-3	0.13	1	6.38E+04	-	3.23E+09	-	-	4.79E+03	4.79E+03	5.90E+04
Naphthol, 2-	135-19-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Naphthoquinone, 1,4-	130-15-4	0.1	1	-	-	3.23E+09	-	-	-	-	-
Naphthylamine, 1-	134-32-7	0.1	1	-	-	3.23E+09	-	-	-	-	-
Naphthylamine, 2-	91-59-8	0.1	1	-	-	3.23E+09	1.15E+02	9.09E+02	-	1.02E+02	-
Napropamide	15299-99-7	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Neodymium Chloride (Stable, Nonradioactive)	10024-93-8	-	1	-	-	3.23E+09	-	-	-	-	-
Niagara Blue 4B	2429-74-5	0.1	1	-	-	3.23E+09	-	-	-	-	-

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Methylnaphthalene, 1-	90-12-0	1.26E+06	-	1.77E+05	6.12E+03 ca*
Methylnaphthalene, 2-	91-57-6	7.19E+04	-	1.01E+04	1.01E+04 nc
Methylstyrene, Alpha-	98-83-9	-	-	2.06E+05	2.06E+05 sat
Methyltriethyl Lead	1762-28-3	-	-	-	
Metolachlor	51218-45-2	3.51E+06	-	3.93E+05	3.93E+05 max
Metribuzin	21087-64-9	5.84E+05	-	6.55E+04	6.55E+04 nc
Mineral oils	8012-95-1	-	-	8.85E+06	8.85E+06 sat
Mirex	2385-85-5	-	-	5.90E+02	1.13E+01 ca*
Molinate	2212-67-1	4.67E+04	-	5.24E+03	5.24E+03 nc
Molybdenum	7439-98-7	-	-	1.47E+04	1.47E+04 nc
Monoaluminum phosphate	13530-50-2	-	-	1.43E+08	1.43E+08 max
Monoammonium phosphate	7722-76-1	-	-	1.43E+08	1.43E+08 max
Monobutyltin Compounds	NA	-	-	-	
Monocalcium phosphate	7758-23-8	-	-	1.43E+08	1.43E+08 max
Monochloramine	10599-90-3	-	-	2.95E+05	2.95E+05 max
Monochlorobutanes	25154-42-1	-	-	-	
Monochlorophenols (total)	NA	-	-	-	
Monocyclic aromatic hydrocarbons (total)	NA	-	-	-	
Monomagnesium phosphate	7757-86-0	-	-	1.43E+08	1.43E+08 max
Monomethylaniline	100-61-8	4.67E+04	-	5.24E+03	5.24E+03 nc
Monopotassium phosphate	7778-77-0	-	-	1.43E+08	1.43E+08 max
Monosodium phosphate	7558-80-7	-	-	1.43E+08	1.43E+08 max
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	7.01E+03	-	7.86E+02	7.86E+02 nc
N-Methyl dithiocarbamate	137-42-8	-	-	-	
Naled	300-76-5	-	-	5.90E+03	5.90E+03 nc
Naphtha, High Flash Aromatic (HFAN)	64742-95-6	-	1.18E+10	8.85E+04	8.85E+04 nc
Naphthalene	91-20-3	3.60E+05	6.99E+03	6.14E+03	4.79E+03 ca**
Naphthol, 2-	135-19-3	-	-	-	
Naphthoquinone, 1,4-	130-15-4	-	-	-	
Naphthylamine, 1-	134-32-7	-	-	-	
Naphthylamine, 2-	91-59-8	-	-	-	1.02E+02 ca
Napropamide	15299-99-7	2.34E+06	-	2.62E+05	2.62E+05 max
Neodymium Chloride (Stable, Nonradioactive)	10024-93-8	-	-	-	
Niagara Blue 4B	2429-74-5	-	-	-	

Site-specific
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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Nickel Acetate	373-02-4	No	No	-		2.60E-04	U	1.10E-02	U	1.40E-05	U	1
Nickel Carbonate	3333-67-3	No	No	-		2.60E-04	U	1.10E-02	U	1.40E-05	U	1
Nickel Carbonyl	13463-39-3	No	Yes	-		2.60E-04	U	1.10E-02	U	1.40E-05	U	1
Nickel Hydroxide	12054-48-7	No	No	-		2.60E-04	U	1.10E-02	U	1.40E-05	U	0.04
Nickel Oxide	1313-99-1	No	No	-		2.60E-04	U	1.10E-02	U	2.00E-05	U	0.04
Nickel Refinery Dust	NA	No	No	-		2.40E-04	U	1.10E-02	U	1.40E-05	U	0.04
Nickel Soluble Salts	7440-02-0	No	No	-		2.60E-04	U	2.00E-02	U	9.00E-05	U	0.04
Nickel Subsulfide	12035-72-2	No	No	1.70E+00	U	4.80E-04	U	1.10E-02	U	1.40E-05	U	0.04
Nickelocene	1271-28-9	No	No	-		2.60E-04	U	1.10E-02	U	1.40E-05	U	1
Nicotinonitrile	100-54-9	No	No	-		-		-		-		1
Niobium	7440-03-1	No	No	-		-		-		-		1
Nitrapyrin	1929-82-4	No	Yes	-		-		-		-		1
Nitrate	14797-55-8	No	No	-		-		1.60E+00	U	-		1
Nitrate + Nitrite (as N)	NA	No	No	-		-		-		-		1
Nitric Acid	7697-37-2	No	No	-		-		-		-		1
Nitric Oxide	10102-43-9	No	Yes	-		-		-		-		1
Nitrite	14797-65-0	No	No	-		-		1.00E-01	U	-		1
Nitroaniline, 2-	88-74-4	No	No	-		-		1.00E-02	U	5.00E-05	U	1
Nitroaniline, 3-	99-09-2	No	No	-		-		-		-		1
Nitroaniline, 4-	100-01-6	No	No	2.00E-02	U	-		4.00E-03	U	6.00E-03	U	1
Nitrobenzene	98-95-3	No	Yes	-		4.00E-05	U	2.00E-03	U	9.00E-03	U	1
Nitrobiphenyl, 4-	92-93-3	No	No	-		-		-		-		1
Nitrocellulose	9004-70-0	No	No	-		-		3.00E+03	U	-		1
Nitrodiphenylamine, 2-	119-75-5	No	No	-		-		-		-		1
Nitrofurantoin	67-20-9	No	No	-		-		7.00E-02	U	-		1
Nitrofurazone	59-87-0	No	No	1.30E+00	U	3.70E-04	U	-		-		1
Nitrogen Dioxide	10102-44-0	No	Yes	-		-		-		-		1
Nitroglycerin	55-63-0	No	No	1.70E-02	U	-		1.00E-04	U	-		1
Nitroguanidine	556-88-7	No	No	-		-		1.00E-01	U	-		1
Nitromethane	75-52-5	No	Yes	-		8.80E-06	U	-		5.00E-03	U	1
Nitrophenol, 2-	88-75-5	No	Yes	-		-		-		-		1
Nitrophenol, 2-amino-4-	99-57-0	No	No	-		-		-		-		1
Nitrophenol, 3-	554-84-7	No	No	-		-		-		-		1
Nitrophenol, 4-	100-02-7	No	No	-		-		-		-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Nickel Acetate	373-02-4	0.1	1	-	-	3.23E+09	-	-	3.18E+07	3.18E+07	3.24E+04
Nickel Carbonate	3333-67-3	0.1	1	-	-	3.23E+09	-	-	3.18E+07	3.18E+07	3.24E+04
Nickel Carbonyl	13463-39-3	-	1	-	-	3.23E+09	-	-	3.18E+07	3.18E+07	3.24E+04
Nickel Hydroxide	12054-48-7	-	1	-	-	3.23E+09	-	-	3.18E+07	3.18E+07	3.24E+04
Nickel Oxide	1313-99-1	-	1	-	-	3.23E+09	-	-	3.18E+07	3.18E+07	3.24E+04
Nickel Refinery Dust	NA	-	1	-	-	3.23E+09	-	-	3.44E+07	3.44E+07	3.24E+04
Nickel Soluble Salts	7440-02-0	-	1	-	-	3.23E+09	-	-	3.18E+07	3.18E+07	5.90E+04
Nickel Subsulfide	12035-72-2	-	1	-	-	3.23E+09	1.21E+02	-	1.72E+07	1.21E+02	3.24E+04
Nickelocene	1271-28-9	0.1	1	-	-	3.23E+09	-	-	3.18E+07	3.18E+07	3.24E+04
Nicotinonitrile	100-54-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Niobium	7440-03-1	-	1	-	-	3.23E+09	-	-	-	-	-
Nitrapyrin	1929-82-4	-	1	3.05E+05	-	3.23E+09	-	-	-	-	-
Nitrate	14797-55-8	-	1	-	-	3.23E+09	-	-	-	-	4.72E+06
Nitrate + Nitrite (as N)	NA	-	1	-	-	3.23E+09	-	-	-	-	-
Nitric Acid	7697-37-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Nitric Oxide	10102-43-9	-	1	-	-	3.23E+09	-	-	-	-	-
Nitrite	14797-65-0	-	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Nitroaniline, 2-	88-74-4	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Nitroaniline, 3-	99-09-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Nitroaniline, 4-	100-01-6	0.1	1	-	-	3.23E+09	1.03E+04	8.18E+04	-	9.17E+03	1.18E+04
Nitrobenzene	98-95-3	-	1	1.01E+05	3.04E+03	3.23E+09	-	-	6.44E+03	6.44E+03	5.90E+03
Nitrobiphenyl, 4-	92-93-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Nitrocellulose	9004-70-0	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+09
Nitrodiphenylamine, 2-	119-75-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Nitrofurantoin	67-20-9	0.1	1	-	-	3.23E+09	-	-	-	-	2.06E+05
Nitrofurazone	59-87-0	0.1	1	-	-	3.23E+09	1.59E+02	1.26E+03	2.23E+07	1.41E+02	-
Nitrogen Dioxide	10102-44-0	-	1	-	-	3.23E+09	-	-	-	-	-
Nitroglycerin	55-63-0	0.1	1	-	-	3.23E+09	1.21E+04	9.62E+04	-	1.08E+04	2.95E+02
Nitroguanidine	556-88-7	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Nitromethane	75-52-5	-	1	2.34E+04	1.80E+04	3.23E+09	-	-	6.78E+03	6.78E+03	-
Nitrophenol, 2-	88-75-5	-	1	1.65E+05	-	3.23E+09	-	-	-	-	-
Nitrophenol, 2-amino-4-	99-57-0	0.1	1	-	-	3.23E+09	-	-	-	-	-
Nitrophenol, 3-	554-84-7	0.1	1	-	-	3.23E+09	-	-	-	-	-
Nitrophenol, 4-	100-02-7	0.1	1	-	-	3.23E+09	-	-	-	-	-

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Nickel Acetate	373-02-4	2.57E+05	1.65E+06	2.83E+04	2.83E+04 nc
Nickel Carbonate	3333-67-3	2.57E+05	1.65E+06	2.83E+04	2.83E+04 nc
Nickel Carbonyl	13463-39-3	-	1.65E+06	3.18E+04	3.18E+04 nc
Nickel Hydroxide	12054-48-7	-	1.65E+06	3.18E+04	3.18E+04 nc
Nickel Oxide	1313-99-1	-	2.36E+06	3.20E+04	3.20E+04 nc
Nickel Refinery Dust	NA	-	1.65E+06	3.18E+04	3.18E+04 nc
Nickel Soluble Salts	7440-02-0	-	1.06E+07	5.87E+04	5.87E+04 nc
Nickel Subsulfide	12035-72-2	-	1.65E+06	3.18E+04	1.21E+02 ca
Nickelocene	1271-28-9	2.57E+05	1.65E+06	2.83E+04	2.83E+04 nc
Nicotinonitrile	100-54-9	-	-	-	
Niobium	7440-03-1	-	-	-	
Nitrapyrin	1929-82-4	-	-	-	
Nitrate	14797-55-8	-	-	4.72E+06	4.72E+06 max
Nitrate + Nitrite (as N)	NA	-	-	-	
Nitric Acid	7697-37-2	-	-	-	
Nitric Oxide	10102-43-9	-	-	-	
Nitrite	14797-65-0	-	-	2.95E+05	2.95E+05 max
Nitroaniline, 2-	88-74-4	2.34E+05	5.90E+06	2.61E+04	2.61E+04 nc
Nitroaniline, 3-	99-09-2	-	-	-	
Nitroaniline, 4-	100-01-6	9.35E+04	7.08E+08	1.05E+04	9.17E+03 ca**
Nitrobenzene	98-95-3	-	3.31E+04	5.01E+03	5.01E+03 sat
Nitrobiphenyl, 4-	92-93-3	-	-	-	
Nitrocellulose	9004-70-0	7.01E+10	-	7.86E+09	7.86E+09 max
Nitrodiphenylamine, 2-	119-75-5	-	-	-	
Nitrofurantoin	67-20-9	1.64E+06	-	1.83E+05	1.83E+05 max
Nitrofurazone	59-87-0	-	-	-	1.41E+02 ca
Nitrogen Dioxide	10102-44-0	-	-	-	
Nitroglycerin	55-63-0	2.34E+03	-	2.62E+02	2.62E+02 nc
Nitroguanidine	556-88-7	2.34E+06	-	2.62E+05	2.62E+05 max
Nitromethane	75-52-5	-	4.26E+03	4.26E+03	4.26E+03 nc
Nitrophenol, 2-	88-75-5	-	-	-	
Nitrophenol, 2-amino-4-	99-57-0	-	-	-	
Nitrophenol, 3-	554-84-7	-	-	-	
Nitrophenol, 4-	100-02-7	-	-	-	

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Nitrophenol, 4-amino-2-	119-34-6	No	No	-		-		-		-		1
Nitropropane, 2-	79-46-9	No	Yes	-		2.70E-03	U	-		2.00E-02	U	1
Nitropyrene, 4-	57835-92-4	No	No	1.20E+00	U	1.10E-04	U	-		-		1
Nitroquinoline-1-oxide. 4-	56-57-5	No	No	-		-		-		-		1
Nitroso-N-ethylurea, N-	759-73-9	Yes	No	2.70E+01	U	7.70E-03	U	-		-		1
Nitroso-N-methylurea, N-	684-93-5	Yes	No	1.20E+02	U	3.40E-02	U	-		-		1
Nitroso-di-N-butylamine, N-	924-16-3	No	Yes	5.40E+00	U	1.60E-03	U	-		-		1
Nitroso-di-N-propylamine, N-	621-64-7	No	No	7.00E+00	U	2.00E-03	U	-		-		1
Nitrosodiethanolamine, N-	1116-54-7	No	No	2.80E+00	U	8.00E-04	U	-		-		1
Nitrosodiethylamine, N-	55-18-5	Yes	No	1.50E+02	U	4.30E-02	U	-		-		1
Nitrosodimethylamine, N-	62-75-9	Yes	Yes	5.10E+01	U	1.40E-02	U	8.00E-06	U	4.00E-05	U	1
Nitrosodiphenylamine, N-	86-30-6	No	No	4.90E-03	U	2.60E-06	U	-		-		1
Nitrosomethylethylamine, N-	10595-95-6	No	Yes	2.20E+01	U	6.30E-03	U	-		-		1
Nitrosomethylvinylamine, N-	4549-40-0	No	Yes	-		-		-		-		1
Nitrosomorpholine [N-]	59-89-2	No	No	6.70E+00	U	1.90E-03	U	-		-		1
Nitrosopiperidine [N-]	100-75-4	No	No	9.40E+00	U	2.70E-03	U	-		-		1
Nitrosopyrrolidine, N-	930-55-2	No	No	2.10E+00	U	6.10E-04	U	-		-		1
Nitrotoluene, 4-Amino-2-	119-32-4	No	No	-		-		-		-		1
Nitrotoluene, m-	99-08-1	No	No	-		-		1.00E-04	U	-		1
Nitrotoluene, o-	88-72-2	No	Yes	2.20E-01	U	-		9.00E-04	U	-		1
Nitrotoluene, p-	99-99-0	No	No	1.60E-02	U	-		4.00E-03	U	-		1
Nonachlor, trans-	39765-80-5	No	Yes	-		-		-		-		1
Nonane, n-	111-84-2	No	Yes	-		-		3.00E-04	U	2.00E-02	U	1
Nonanol, n-	143-08-8	No	Yes	-		-		-		-		1
Norflurazon	27314-13-2	No	No	-		-		4.00E-02	U	-		1
Nustar	85509-19-9	No	No	-		-		7.00E-04	U	-		1
OCDD	3268-87-9	No	No	3.90E+01	U	1.14E-02	U	2.33E-06	U	1.33E-04	U	1
OCDF	39001-02-0	No	No	3.90E+01	U	1.14E-02	U	2.33E-06	U	1.33E-04	U	1
Octabromodiphenyl Ether	32536-52-0	No	No	-		-		3.00E-03	U	-		1
Octachlorostyrene	29082-74-4	No	Yes	-		-		-		-		1
Octadecanoic Acid	57-11-4	No	No	-		-		-		-		1
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	No	No	-		-		5.00E-02	U	-		1
Octahydrotrimethylmethylethylphenanthrenol	511-15-9	No	No	-		-		-		-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Nitrophenol, 4-amino-2-	119-34-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Nitropropane, 2-	79-46-9	-	1	1.81E+04	4.86E+03	3.23E+09	-	-	1.71E+01	1.71E+01	-
Nitropyrene, 4-	57835-92-4	0.13	1	-	-	3.23E+09	1.72E+02	1.05E+03	7.51E+07	1.48E+02	-
Nitroquinoline-1-oxide. 4-	56-57-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Nitroso-N-ethylurea, N-	759-73-9	0.1	1	-	-	3.23E+09	7.65E+00	6.06E+01	1.07E+06	6.79E+00	-
Nitroso-N-methylurea, N-	684-93-5	0.1	1	-	-	3.23E+09	1.72E+00	1.36E+01	2.43E+05	1.53E+00	-
Nitroso-di-N-butylamine, N-	924-16-3	-	1	3.35E+05	-	3.23E+09	3.82E+01	-	5.35E+02	3.57E+01	-
Nitroso-di-N-propylamine, N-	621-64-7	0.1	1	-	-	3.23E+09	2.95E+01	2.34E+02	4.13E+06	2.62E+01	-
Nitrosodiethanolamine, N-	1116-54-7	0.1	1	-	-	3.23E+09	7.37E+01	5.84E+02	1.03E+07	6.55E+01	-
Nitrosodiethylamine, N-	55-18-5	0.1	1	-	-	3.23E+09	1.38E+00	1.09E+01	1.92E+05	1.22E+00	-
Nitrosodimethylamine, N-	62-75-9	-	1	1.14E+05	2.37E+05	3.23E+09	4.05E+00	-	2.07E+01	3.39E+00	2.36E+01
Nitrosodiphenylamine, N-	86-30-6	0.1	1	-	-	3.23E+09	4.21E+04	3.34E+05	3.18E+09	3.74E+04	-
Nitrosomethylethylamine, N-	10595-95-6	-	1	1.67E+05	1.08E+05	3.23E+09	9.38E+00	-	6.77E+01	8.24E+00	-
Nitrosomethylvinylamine, N-	4549-40-0	-	1	1.12E+05	1.08E+04	3.23E+09	-	-	-	-	-
Nitrosomorpholine [N-]	59-89-2	0.1	1	-	-	3.23E+09	3.08E+01	2.44E+02	4.35E+06	2.74E+01	-
Nitrosopiperidine [N-]	100-75-4	0.1	1	-	-	3.23E+09	2.20E+01	1.74E+02	3.06E+06	1.95E+01	-
Nitrosopyrrolidine, N-	930-55-2	0.1	1	-	-	3.23E+09	9.83E+01	7.79E+02	1.35E+07	8.73E+01	-
Nitrotoluene, 4-Amino-2-	119-32-4	0.1	1	-	-	3.23E+09	-	-	-	-	-
Nitrotoluene, m-	99-08-1	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+02
Nitrotoluene, o-	88-72-2	-	1	1.89E+05	1.51E+03	3.23E+09	9.38E+02	-	-	9.38E+02	2.65E+03
Nitrotoluene, p-	99-99-0	0.1	1	-	-	3.23E+09	1.29E+04	1.02E+05	-	1.15E+04	1.18E+04
Nonachlor, trans-	39765-80-5	-	1	3.73E+06	-	3.23E+09	-	-	-	-	-
Nonane, n-	111-84-2	-	1	1.44E+03	6.86E+00	3.23E+09	-	-	-	-	8.85E+02
Nonanol, n-	143-08-8	-	1	6.41E+04	7.27E+01	3.23E+09	-	-	-	-	-
Norflurazon	27314-13-2	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+05
Nustar	85509-19-9	0.1	1	-	-	3.23E+09	-	-	-	-	2.06E+03
OCDD	3268-87-9	0.03	1	-	-	3.23E+09	5.29E+00	1.40E+02	7.25E+05	5.10E+00	6.87E+00
OCDF	39001-02-0	0.03	1	-	-	3.23E+09	5.29E+00	1.40E+02	7.25E+05	5.10E+00	6.87E+00
Octabromodiphenyl Ether	32536-52-0	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+03
Octachlorostyrene	29082-74-4	-	1	8.40E+05	-	3.23E+09	-	-	-	-	-
Octadecanoic Acid	57-11-4	0.1	1	-	-	3.23E+09	-	-	-	-	-
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	0.006	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Octahydrotrimethylmethylethylphenanthrenol	511-15-9	0.1	1	-	-	3.23E+09	-	-	-	-	-

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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Nitrophenol, 4-amino-2-	119-34-6	-	-	-	
Nitropropane, 2-	79-46-9	-	1.32E+04	1.32E+04	1.71E+01 ca
Nitropyrene, 4-	57835-92-4	-	-	-	1.48E+02 ca
Nitroquinoline-1-oxide. 4-	56-57-5	-	-	-	
Nitroso-N-ethylurea, N-	759-73-9	-	-	-	6.79E+00 ca
Nitroso-N-methylurea, N-	684-93-5	-	-	-	1.53E+00 ca
Nitroso-di-N-butylamine, N-	924-16-3	-	-	-	3.57E+01 ca
Nitroso-di-N-propylamine, N-	621-64-7	-	-	-	2.62E+01 ca
Nitrosodiethanolamine, N-	1116-54-7	-	-	-	6.55E+01 ca
Nitrosodiethylamine, N-	55-18-5	-	-	-	1.22E+00 ca
Nitrosodimethylamine, N-	62-75-9	-	1.66E+02	2.07E+01	3.39E+00 ca**
Nitrosodiphenylamine, N-	86-30-6	-	-	-	3.74E+04 ca
Nitrosomethylethylamine, N-	10595-95-6	-	-	-	8.24E+00 ca
Nitrosomethylvinylamine, N-	4549-40-0	-	-	-	
Nitrosomorpholine [N-]	59-89-2	-	-	-	2.74E+01 ca
Nitrosopiperidine [N-]	100-75-4	-	-	-	1.95E+01 ca
Nitrosopyrrolidine, N-	930-55-2	-	-	-	8.73E+01 ca
Nitrotoluene, 4-Amino-2-	119-32-4	-	-	-	
Nitrotoluene, m-	99-08-1	2.34E+03	-	2.62E+02	2.62E+02 nc
Nitrotoluene, o-	88-72-2	-	-	2.65E+03	9.38E+02 ca**
Nitrotoluene, p-	99-99-0	9.35E+04	-	1.05E+04	1.05E+04 nc
Nonachlor, trans-	39765-80-5	-	-	-	
Nonane, n-	111-84-2	-	1.05E+03	4.80E+02	4.80E+02 sat
Nonanol, n-	143-08-8	-	-	-	
Norflurazon	27314-13-2	9.35E+05	-	1.05E+05	1.05E+05 max
Nustar	85509-19-9	1.64E+04	-	1.83E+03	1.83E+03 nc
OCDD	3268-87-9	1.82E+02	1.57E+07	6.62E+00	5.10E+00 ca**
OCDF	39001-02-0	1.82E+02	1.57E+07	6.62E+00	5.10E+00 ca**
Octabromodiphenyl Ether	32536-52-0	7.01E+04	-	7.86E+03	7.86E+03 nc
Octachlorostyrene	29082-74-4	-	-	-	
Octadecanoic Acid	57-11-4	-	-	-	
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	1.95E+07	-	1.46E+05	1.46E+05 max
Octahydrotrimethylmethylethylphenanthrenol	511-15-9	-	-	-	

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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Octamethylpyrophosphoramide	152-16-9	No	No	-		-		2.00E-03	U	-		1
Octanol, n-	111-87-5	No	Yes	-		-		-		-		1
Octanone, 2-	111-13-7	No	Yes	-		-		-		-		1
Octanone, 3-	106-68-3	No	Yes	-		-		-		-		1
Octyl Phthalate, di-N-	117-84-0	No	No	-		-		1.00E-02	U	-		1
Oleic acid	112-80-1	No	Yes	-		-		-		-		1
Oleum	8014-95-7	Yes	No	-		-		-		-		1
Oryzalin	19044-88-3	No	No	-		-		5.00E-02	U	-		1
Oxadiazon	19666-30-9	No	No	-		-		5.00E-03	U	-		1
Oxamyl	23135-22-0	No	No	-		-		2.50E-02	U	-		1
Oxychlordane	27304-13-8	No	No	-		-		-		-		1
Ozone	10028-15-6	No	No	-		-		-		-		1
Paclobutrazol	76738-62-0	No	No	-		-		1.30E-02	U	-		1
Paraquat Dichloride	1910-42-5	No	No	-		-		4.50E-03	U	-		1
Parathion	56-38-2	No	No	-		-		6.00E-03	U	-		1
PeCDD, 2,3,7,8-	36088-22-9	No	No	1.30E+05	U	3.80E+01	U	7.00E-10	U	4.00E-08	U	1
PeCDF, 1,2,3,7,8-	57117-41-6	No	No	3.90E+03	U	1.14E+00	U	2.33E-08	U	1.33E-06	U	1
PeCDF, 2,3,4,7,8-	57117-31-4	No	No	3.90E+04	U	1.14E+01	U	2.33E-09	U	1.33E-07	U	1
Pebulate	1114-71-2	No	Yes	-		-		5.00E-02	U	-		1
Pendimethalin	40487-42-1	No	No	-		-		4.00E-02	U	-		1
Pentabromodiphenyl Ether	32534-81-9	No	No	-		-		2.00E-03	U	-		1
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	No	No	-		-		1.00E-04	U	-		1
Pentachloroaniline	527-20-8	No	No	-		-		-		-		1
Pentachlorobenzene	608-93-5	No	Yes	-		-		8.00E-04	U	-		1
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
Pentachlorocyclopentadiene	25329-35-5	No	Yes	-		-		-		-		1
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	No	Yes	1.30E+05	U	3.80E+01	U	7.00E-10	U	4.00E-08	U	1
Pentachloroethane	76-01-7	No	Yes	9.00E-02	U	-		-		-		1
Pentachloronitrobenzene	82-68-8	No	Yes	2.60E-01	U	-		3.00E-03	U	-		1

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Octamethylpyrophosphoramide	152-16-9	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Octanol, n-	111-87-5	-	1	5.35E+04	1.78E+02	3.23E+09	-	-	-	-	-
Octanone, 2-	111-13-7	-	1	2.12E+04	3.60E+02	3.23E+09	-	-	-	-	-
Octanone, 3-	106-68-3	-	1	2.60E+04	1.08E+03	3.23E+09	-	-	-	-	-
Octyl Phthalate, di-N-	117-84-0	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Oleic acid	112-80-1	-	1	1.43E+06	1.44E+00	3.23E+09	-	-	-	-	-
Oleum	8014-95-7	-	1	-	-	3.23E+09	-	-	-	-	-
Oryzalin	19044-88-3	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Oxadiazon	19666-30-9	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Oxamyl	23135-22-0	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+04
Oxychlordane	27304-13-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Ozone	10028-15-6	-	1	-	-	3.23E+09	-	-	-	-	-
Paclobutrazol	76738-62-0	0.1	1	-	-	3.23E+09	-	-	-	-	3.83E+04
Paraquat Dichloride	1910-42-5	0.1	1	-	-	3.23E+09	-	-	-	-	1.33E+04
Parathion	56-38-2	0.1	1	-	-	3.23E+09	-	-	-	-	1.77E+04
PeCDD, 2,3,7,8-	36088-22-9	0.03	1	-	-	3.23E+09	1.59E-03	4.20E-02	2.17E+02	1.53E-03	2.06E-03
PeCDF, 1,2,3,7,8-	57117-41-6	0.03	1	-	-	3.23E+09	5.29E-02	1.40E+00	7.25E+03	5.10E-02	6.87E-02
PeCDF, 2,3,4,7,8-	57117-31-4	0.03	1	-	-	3.23E+09	5.29E-03	1.40E-01	7.25E+02	5.10E-03	6.87E-03
Pebulate	1114-71-2	-	1	6.20E+04	-	3.23E+09	-	-	-	-	1.47E+05
Pendimethalin	40487-42-1	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+05
Pentabromodiphenyl Ether	32534-81-9	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+02
Pentachloroaniline	527-20-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Pentachlorobenzene	608-93-5	-	1	1.12E+05	-	3.23E+09	-	-	-	-	2.36E+03
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	0.14	1	1.42E+06	-	3.23E+09	5.29E+01	3.00E+02	3.19E+03	4.44E+01	6.87E+01
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	0.14	1	1.14E+06	-	3.23E+09	5.29E+01	3.00E+02	2.56E+03	4.42E+01	6.87E+01
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	0.14	1	1.17E+06	-	3.23E+09	5.29E+01	3.00E+02	2.61E+03	4.42E+01	6.87E+01
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	0.14	1	1.42E+06	-	3.23E+09	5.29E+01	3.00E+02	3.19E+03	4.44E+01	6.87E+01
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	0.14	1	1.41E+06	-	3.23E+09	1.59E-02	8.99E-02	9.46E-01	1.33E-02	2.06E-02
Pentachlorocyclopentadiene	25329-35-5	-	1	1.95E+04	-	3.23E+09	-	-	-	-	-
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	0.03	1	4.61E+06	-	3.23E+09	1.59E-03	4.20E-02	3.10E-01	1.52E-03	2.06E-03
Pentachloroethane	76-01-7	-	1	1.33E+04	4.47E+02	3.23E+09	2.29E+03	-	-	2.29E+03	-
Pentachloronitrobenzene	82-68-8	-	1	5.95E+05	-	3.23E+09	7.94E+02	-	-	7.94E+02	8.85E+03

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Octamethylpyrophosphoramide	152-16-9	4.67E+04	-	5.24E+03	5.24E+03 nc
Octanol, n-	111-87-5	-	-	-	
Octanone, 2-	111-13-7	-	-	-	
Octanone, 3-	106-68-3	-	-	-	
Octyl Phthalate, di-N-	117-84-0	2.34E+05	-	2.62E+04	2.62E+04 nc
Oleic acid	112-80-1	-	-	-	
Oleum	8014-95-7	-	-	-	
Oryzalin	19044-88-3	1.17E+06	-	1.31E+05	1.31E+05 max
Oxadiazon	19666-30-9	1.17E+05	-	1.31E+04	1.31E+04 nc
Oxamyl	23135-22-0	5.84E+05	-	6.55E+04	6.55E+04 nc
Oxychlordane	27304-13-8	-	-	-	
Ozone	10028-15-6	-	-	-	
Paclobutrazol	76738-62-0	3.04E+05	-	3.40E+04	3.40E+04 nc
Paraquat Dichloride	1910-42-5	1.05E+05	-	1.18E+04	1.18E+04 nc
Parathion	56-38-2	1.40E+05	-	1.57E+04	1.57E+04 nc
PeCDD, 2,3,7,8-	36088-22-9	5.45E-02	4.72E+03	1.99E-03	1.53E-03 ca**
PeCDF, 1,2,3,7,8-	57117-41-6	1.82E+00	1.57E+05	6.62E-02	5.10E-02 ca**
PeCDF, 2,3,4,7,8-	57117-31-4	1.82E-01	1.57E+04	6.62E-03	5.10E-03 ca**
Pebulate	1114-71-2	-	-	1.47E+05	1.47E+05 max
Pendimethalin	40487-42-1	9.35E+05	-	1.05E+05	1.05E+05 max
Pentabromodiphenyl Ether	32534-81-9	4.67E+04	-	5.24E+03	5.24E+03 nc
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	2.34E+03	-	2.62E+02	2.62E+02 nc
Pentachloroaniline	527-20-8	-	-	-	
Pentachlorobenzene	608-93-5	-	-	2.36E+03	2.36E+03 nc
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	3.89E+02	6.91E+04	5.84E+01	4.44E+01 ca**
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	3.89E+02	5.55E+04	5.83E+01	4.42E+01 ca**
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	3.89E+02	5.66E+04	5.83E+01	4.42E+01 ca**
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	3.89E+02	6.91E+04	5.84E+01	4.44E+01 ca**
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	1.17E-01	2.05E+01	1.75E-02	1.33E-02 ca**
Pentachlorocyclopentadiene	25329-35-5	-	-	-	
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	5.45E-02	6.72E+00	1.99E-03	1.52E-03 ca**
Pentachloroethane	76-01-7	-	-	-	2.29E+03 sat
Pentachloronitrobenzene	82-68-8	-	-	8.85E+03	7.94E+02 ca*

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR UTILITY WORKER
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Pentachlorophenol	87-86-5	No	No	4.00E-01	U	5.10E-06	U	5.00E-03	U	-		1
Pentaerythritol tetranitrate (PETN)	78-11-5	No	No	4.00E-03	U	-		2.00E-03	U	-		1
Pentamethyl dipropylenetriamine	3855-32-1	No	No	-		-		-		-		1
Pentane, n-	109-66-0	No	Yes	-		-		-		1.00E+00	U	1
Pentyl Alcohol, N-	71-41-0	No	Yes	-		-		-		-		1
Perchlorate and Perchlorate Salts	14797-73-0	No	No	-		-		7.00E-04	U	-		1
Perfluorobutane Sulfonate	375-73-5	No	Yes	-		-		2.00E-02	U	-		1
Perfluorooctane Sulphonic Acid	1763-23-1	No	Yes	-		-		-		-		1
Perfluorooctanoic acid	335-67-1	No	Yes	-		-		-		-		1
Permethrin	52645-53-1	No	No	-		-		5.00E-02	U	-		1
Perylene	198-55-0	No	No	-		-		-		-		1
Pesticides (total)	NA	No	No	-		-		-		-		1
Pesticides, organochlorinated (each)	NA	No	No	-		-		-		-		1
Pesticides, organochlorinated (total)	NA	No	No	-		-		-		-		1
Phenacetin	62-44-2	No	No	2.20E-03	U	6.30E-07	U	-		-		1
Phenanthrene	85-01-8	No	Yes	-		-		-		-		1
Phenmedipham	13684-63-4	No	No	-		-		2.50E-01	U	-		1
Phenol	108-95-2	No	No	-		-		3.00E-01	U	2.00E-01	U	1
Phenothiazine	92-84-2	No	No	-		-		5.00E-04	U	-		1
Phenyl Isothiocyanate	103-72-0	No	Yes	-		-		-		-		1
Phenylenediamine, m-	108-45-2	No	No	-		-		6.00E-03	U	-		1
Phenylenediamine, o-	95-54-5	No	No	4.70E-02	U	-		-		-		1
Phenylenediamine, p-	106-50-3	No	No	-		-		1.90E-01	U	-		1
Phenylmercuric Acetate	62-38-4	No	No	-		-		8.00E-05	U	-		1
Phenylphenol, 2-	90-43-7	No	No	1.94E-03	U	-		-		-		1
Phorate	298-02-2	No	No	-		-		2.00E-04	U	-		1
Phosgene	75-44-5	No	Yes	-		-		-		3.00E-04	U	1
Phosmet	732-11-6	No	No	-		-		2.00E-02	U	-		1
Phosphine	7803-51-2	No	Yes	-		-		3.00E-04	U	3.00E-04	U	1
Phosphoric Acid	7664-38-2	No	No	-		-		4.86E+01	U	1.00E-02	U	1
Phosphorus (total)	NA	No	No	-		-		-		-		1
Phosphorus pentoxide	1314-56-3	No	No	-		-		-		-		1
Phosphorus, White	7723-14-0	No	Yes	-		-		2.00E-05	U	-		1
Phthalates (total)	NA	No	No	-		-		-		-		1

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Pentachlorophenol	87-86-5	0.25	1	-	-	3.23E+09	5.16E+02	1.64E+03	1.62E+09	3.92E+02	1.47E+04
Pentaerythritol tetranitrate (PETN)	78-11-5	0.1	1	-	-	3.23E+09	5.16E+04	4.09E+05	-	4.58E+04	5.90E+03
Pentamethyl dipropylenetriamine	3855-32-1	0.1	1	-	-	3.23E+09	-	-	-	-	-
Pentane, n-	109-66-0	-	1	1.07E+03	3.88E+02	3.23E+09	-	-	-	-	-
Pentyl Alcohol, N-	71-41-0	-	1	3.91E+04	3.04E+03	3.23E+09	-	-	-	-	-
Perchlorate and Perchlorate Salts	14797-73-0	-	1	-	-	3.23E+09	-	-	-	-	2.06E+03
Perfluorobutane Sulfonate	375-73-5	-	1	1.82E+05	-	3.23E+09	-	-	-	-	5.90E+04
Perfluorooctane Sulphonic Acid	1763-23-1	-	1	1.48E+05	-	3.23E+09	-	-	-	-	-
Perfluorooctanoic acid	335-67-1	-	1	3.00E+04	-	3.23E+09	-	-	-	-	-
Permethrin	52645-53-1	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Perylene	198-55-0	0.13	1	-	-	3.23E+09	-	-	-	-	-
Pesticides (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Pesticides, organochlorinated (each)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Pesticides, organochlorinated (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Phenacetin	62-44-2	0.1	1	-	-	3.23E+09	9.38E+04	7.44E+05	1.31E+10	8.33E+04	-
Phenanthrene	85-01-8	0.13	1	8.87E+05	-	3.23E+09	-	-	-	-	-
Phenmedipham	13684-63-4	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+05
Phenol	108-95-2	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+05
Phenothiazine	92-84-2	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+03
Phenyl Isothiocyanate	103-72-0	-	1	9.76E+03	1.29E+02	3.23E+09	-	-	-	-	-
Phenylenediamine, m-	108-45-2	0.1	1	-	-	3.23E+09	-	-	-	-	1.77E+04
Phenylenediamine, o-	95-54-5	0.1	1	-	-	3.23E+09	4.39E+03	3.48E+04	-	3.90E+03	-
Phenylenediamine, p-	106-50-3	0.1	1	-	-	3.23E+09	-	-	-	-	5.60E+05
Phenylmercuric Acetate	62-38-4	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+02
Phenylphenol, 2-	90-43-7	0.1	1	-	-	3.23E+09	1.06E+05	8.43E+05	-	9.45E+04	-
Phorate	298-02-2	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+02
Phosgene	75-44-5	-	1	1.35E+03	1.61E+03	3.23E+09	-	-	-	-	-
Phosmet	732-11-6	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Phosphine	7803-51-2	-	1	-	-	3.23E+09	-	-	-	-	8.85E+02
Phosphoric Acid	7664-38-2	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Phosphorus (total)	NA	-	1	-	-	3.23E+09	-	-	-	-	-
Phosphorus pentoxide	1314-56-3	-	1	-	-	3.23E+09	-	-	-	-	-
Phosphorus, White	7723-14-0	-	1	9.55E+03	-	3.23E+09	-	-	-	-	5.90E+01
Phthalates (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Pentachlorophenol	87-86-5	4.67E+04	-	1.12E+04	3.92E+02 ca*
Pentaerythritol tetranitrate (PETN)	78-11-5	4.67E+04	-	5.24E+03	5.24E+03 nc
Pentamethyl dipropylenetriamine	3855-32-1	-	-	-	
Pentane, n-	109-66-0	-	3.92E+04	3.92E+04	3.92E+04 sat
Pentyl Alcohol, N-	71-41-0	-	-	-	
Perchlorate and Perchlorate Salts	14797-73-0	-	-	2.06E+03	2.06E+03 nc
Perfluorobutane Sulfonate	375-73-5	-	-	5.90E+04	5.90E+04 nc
Perfluorooctane Sulphonic Acid	1763-23-1	-	-	-	
Perfluorooctanoic acid	335-67-1	-	-	-	
Permethrin	52645-53-1	1.17E+06	-	1.31E+05	1.31E+05 max
Perylene	198-55-0	-	-	-	
Pesticides (total)	NA	-	-	-	
Pesticides, organochlorinated (each)	NA	-	-	-	
Pesticides, organochlorinated (total)	NA	-	-	-	
Phenacetin	62-44-2	-	-	-	8.33E+04 ca
Phenanthrene	85-01-8	-	-	-	
Phenmedipham	13684-63-4	5.84E+06	-	6.55E+05	6.55E+05 max
Phenol	108-95-2	7.01E+06	2.36E+10	7.86E+05	7.86E+05 max
Phenothiazine	92-84-2	1.17E+04	-	1.31E+03	1.31E+03 nc
Phenyl Isothiocyanate	103-72-0	-	-	-	
Phenylenediamine, m-	108-45-2	1.40E+05	-	1.57E+04	1.57E+04 nc
Phenylenediamine, o-	95-54-5	-	-	-	3.90E+03 ca
Phenylenediamine, p-	106-50-3	4.44E+06	-	4.98E+05	4.98E+05 max
Phenylmercuric Acetate	62-38-4	1.87E+03	-	2.10E+02	2.10E+02 nc
Phenylphenol, 2-	90-43-7	-	-	-	9.45E+04 ca
Phorate	298-02-2	4.67E+03	-	5.24E+02	5.24E+02 nc
Phosgene	75-44-5	-	1.48E+01	1.48E+01	1.48E+01 nc
Phosmet	732-11-6	4.67E+05	-	5.24E+04	5.24E+04 nc
Phosphine	7803-51-2	-	3.54E+07	8.85E+02	8.85E+02 nc
Phosphoric Acid	7664-38-2	-	1.18E+09	1.28E+08	1.28E+08 max
Phosphorus (total)	NA	-	-	-	
Phosphorus pentoxide	1314-56-3	-	-	-	
Phosphorus, White	7723-14-0	-	-	5.90E+01	5.90E+01 nc
Phthalates (total)	NA	-	-	-	

Site-specific
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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Phthalic Acid, P-	100-21-0	No	No	-		-		1.00E+00	U	-		1
Phthalic Acid, m-	121-91-5	No	No	-		-		-		-		1
Phthalic Acid, o-	88-99-3	No	No	-		-		-		-		1
Phthalic Anhydride	85-44-9	No	No	-		-		2.00E+00	U	2.00E-02	U	1
Picloram	1918-02-1	No	No	-		-		7.00E-02	U	-		1
Picoline, 2-	109-06-8	No	Yes	-		-		-		-		1
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	No	No	-		-		1.00E-04	U	-		1
Picric Acid (2,4,6-Trinitrophenol)	88-89-1	No	No	-		-		-		-		1
Piperidine	110-89-4	No	Yes	-		-		-		-		1
Pirimiphos, Methyl	29232-93-7	No	No	-		-		1.00E-02	U	-		1
Polybrominated Biphenyls	59536-65-1	No	No	3.00E+01	U	8.60E-03	U	7.00E-06	U	-		1
Polychlorinated Biphenyls (high risk)	1336-36-3	No	Yes	2.00E+00	U	5.71E-04	U	-		-		1
Polycyclic aromatic hydrocarbons (PAH), Total	NA	No	No	-		-		-		-		1
Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)	NA	No	No	-		-		-		-		1
Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)	NA	No	No	-		-		-		-		1
Polycyclic chlorinated hydrocarbons (total)	NA	No	No	-		-		-		-		1
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	No	No	-		-		-		6.00E-04	U	1
Polyphosphoric acid	8017-16-1	No	No	-		-		4.86E+01	U	-		1
Potassium	7440-09-7	No	No	-		-		-		-		1
Potassium Cyanide	151-50-8	No	No	-		-		2.00E-03	U	-		1
Potassium Perchlorate	7778-74-7	No	No	-		-		7.00E-04	U	-		1
Potassium Perfluorobutane Sulfonate	29420-49-3	No	No	-		-		2.00E-02	U	-		1
Potassium Silver Cyanide	506-61-6	No	No	-		-		5.00E-03	U	-		0.04
Potassium chlorate	3811-04-9	No	No	-		-		-		-		1
Potassium tripolyphosphate	13845-36-8	No	No	-		-		4.86E+01	U	-		1
Praseodymium	7440-10-0	No	No	-		-		-		-		1
Praseodymium Chloride (Stable, Nonradioactive)	10361-79-2	No	No	-		-		-		-		1
Prochloraz	67747-09-5	No	No	1.50E-01	U	-		9.00E-03	U	-		1
Profluralin	26399-36-0	No	Yes	-		-		6.00E-03	U	-		1
Promethium	7440-12-2	No	No	-		-		-		-		1

Site-specific
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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Phthalic Acid, P-	100-21-0	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+06
Phthalic Acid, m-	121-91-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Phthalic Acid, o-	88-99-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Phthalic Anhydride	85-44-9	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+06
Picloram	1918-02-1	0.1	1	-	-	3.23E+09	-	-	-	-	2.06E+05
Picoline, 2-	109-06-8	-	1	1.05E+05	7.90E+05	3.23E+09	-	-	-	-	-
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+02
Picric Acid (2,4,6-Trinitrophenol)	88-89-1	0.1	1	-	-	3.23E+09	-	-	-	-	-
Piperidine	110-89-4	-	1	1.12E+05	1.96E+05	3.23E+09	-	-	-	-	-
Pirimiphos, Methyl	29232-93-7	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Polybrominated Biphenyls	59536-65-1	0.1	1	-	-	3.23E+09	6.88E+00	5.45E+01	9.61E+05	6.11E+00	2.06E+01
Polychlorinated Biphenyls (high risk)	1336-36-3	0.14	1	1.08E+06	-	3.23E+09	1.03E+02	5.84E+02	4.85E+03	8.62E+01	-
Polycyclic aromatic hydrocarbons (PAH), Total	NA	0.13	1	-	-	3.23E+09	-	-	-	-	-
Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)	NA	0.13	1	-	-	3.23E+09	-	-	-	-	-
Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)	NA	0.13	1	-	-	3.23E+09	-	-	-	-	-
Polycyclic chlorinated hydrocarbons (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	0.1	1	-	-	3.23E+09	-	-	-	-	-
Polyphosphoric acid	8017-16-1	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Potassium	7440-09-7	-	1	-	-	3.23E+09	-	-	-	-	-
Potassium Cyanide	151-50-8	-	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Potassium Perchlorate	7778-74-7	-	1	-	-	3.23E+09	-	-	-	-	2.06E+03
Potassium Perfluorobutane Sulfonate	29420-49-3	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Potassium Silver Cyanide	506-61-6	-	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Potassium chlorate	3811-04-9	-	1	-	-	3.23E+09	-	-	-	-	-
Potassium tripolyphosphate	13845-36-8	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Praseodymium	7440-10-0	-	1	-	-	3.23E+09	-	-	-	-	-
Praseodymium Chloride (Stable, Nonradioactive)	10361-79-2	-	1	-	-	3.23E+09	-	-	-	-	-
Prochloraz	67747-09-5	0.1	1	-	-	3.23E+09	1.38E+03	1.09E+04	-	1.22E+03	2.65E+04
Profluralin	26399-36-0	-	1	5.78E+05	-	3.23E+09	-	-	-	-	1.77E+04
Promethium	7440-12-2	-	1	-	-	3.23E+09	-	-	-	-	-

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Phthalic Acid, P-	100-21-0	2.34E+07	-	2.62E+06	2.62E+06 max
Phthalic Acid, m-	121-91-5	-	-	-	
Phthalic Acid, o-	88-99-3	-	-	-	
Phthalic Anhydride	85-44-9	4.67E+07	2.36E+09	5.23E+06	5.23E+06 max
Picloram	1918-02-1	1.64E+06	-	1.83E+05	1.83E+05 max
Picoline, 2-	109-06-8	-	-	-	
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	2.34E+03	-	2.62E+02	2.62E+02 nc
Picric Acid (2,4,6-Trinitrophenol)	88-89-1	-	-	-	
Piperidine	110-89-4	-	-	-	
Pirimiphos, Methyl	29232-93-7	2.34E+05	-	2.62E+04	2.62E+04 nc
Polybrominated Biphenyls	59536-65-1	1.64E+02	-	1.83E+01	6.11E+00 ca**
Polychlorinated Biphenyls (high risk)	1336-36-3	-	-	-	8.62E+01 ca
Polycyclic aromatic hydrocarbons (PAH), Total	NA	-	-	-	
Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)	NA	-	-	-	
Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)	NA	-	-	-	
Polycyclic chlorinated hydrocarbons (total)	NA	-	-	-	
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	-	7.08E+07	7.08E+07	7.08E+07 max
Polyphosphoric acid	8017-16-1	-	-	1.43E+08	1.43E+08 max
Potassium	7440-09-7	-	-	-	
Potassium Cyanide	151-50-8	-	-	5.90E+03	5.90E+03 nc
Potassium Perchlorate	7778-74-7	-	-	2.06E+03	2.06E+03 nc
Potassium Perfluorobutane Sulfonate	29420-49-3	4.67E+05	-	5.24E+04	5.24E+04 nc
Potassium Silver Cyanide	506-61-6	-	-	1.47E+04	1.47E+04 nc
Potassium chlorate	3811-04-9	-	-	-	
Potassium tripolyphosphate	13845-36-8	-	-	1.43E+08	1.43E+08 max
Praseodymium	7440-10-0	-	-	-	
Praseodymium Chloride (Stable, Nonradioactive)	10361-79-2	-	-	-	
Prochloraz	67747-09-5	2.10E+05	-	2.36E+04	1.22E+03 ca*
Profluralin	26399-36-0	-	-	1.77E+04	1.77E+04 nc
Promethium	7440-12-2	-	-	-	

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Prometon	1610-18-0	No	No	-		-		1.50E-02	U	-		1
Prometryn	7287-19-6	No	No	-		-		4.00E-03	U	-		1
Propachlor	1918-16-7	No	No	-		-		1.30E-02	U	-		1
Propanil	709-98-8	No	No	-		-		5.00E-03	U	-		1
Propanoic acid, 2-(2,4-dichlorophenoxy)-	120-36-5	No	No	-		-		-		-		1
Propargite	2312-35-8	No	No	-		-		2.00E-02	U	-		1
Propargyl Alcohol	107-19-7	No	Yes	-		-		2.00E-03	U	-		1
Propazine	139-40-2	No	No	-		-		2.00E-02	U	-		1
Propham	122-42-9	No	No	-		-		2.00E-02	U	-		1
Propiconazole	60207-90-1	No	No	-		-		1.30E-02	U	-		1
Propionaldehyde	123-38-6	No	Yes	-		-		-		8.00E-03	U	1
Propionitrile	107-12-0	No	Yes	-		-		-		-		1
Propionitrile, 3-(NN-dimethylamino)	1738-25-6	No	Yes	-		-		-		-		1
Propyl Alcohol, n-	71-23-8	No	Yes	-		-		-		-		1
Propyl benzene	103-65-1	No	Yes	-		-		1.00E-01	U	1.00E+00	U	1
Propylene	115-07-1	No	Yes	-		-		-		3.00E+00	U	1
Propylene Glycol	57-55-6	No	No	-		-		2.00E+01	U	-		1
Propylene Glycol Dinitrate	6423-43-4	No	No	-		-		-		2.72E-04	U	1
Propylene Glycol Monoethyl Ether	1569-02-4	No	Yes	-		-		7.00E-01	U	-		1
Propylene Glycol Monomethyl Ether	107-98-2	No	Yes	-		-		7.00E-01	U	2.00E+00	U	1
Propylene Oxide	75-56-9	No	Yes	2.40E-01	U	3.70E-06	U	-		3.00E-02	U	1
Prussian Blue (Ferric Ferrocyanide)	14038-43-8	No	No	-		-		-		-		1
Pursuit	81335-77-5	No	No	-		-		2.50E-01	U	-		1
Pydrin	51630-58-1	No	No	-		-		2.50E-02	U	-		1
Pyrazinyl phosphorothioate, O,O-diethyl O-2-	297-97-2	No	No	-		-		-		-		1
Pyrene	129-00-0	No	Yes	-		-		3.00E-02	U	-		1
Pyridine	110-86-1	No	Yes	-		-		1.00E-03	U	-		1
Quinalphos	13593-03-8	No	No	-		-		5.00E-04	U	-		1
Quinoline	91-22-5	No	No	3.00E+00	U	-		-		-		1
Refractory Ceramic Fibers	NA	No	No	-		-		-		3.00E-02	U	1
Resmethrin	10453-86-8	No	No	-		-		3.00E-02	U	-		1
Resorcinol	108-46-3	No	No	-		-		-		-		1
Ronnel	299-84-3	No	Yes	-		-		5.00E-02	U	-		1
Rotenone	83-79-4	No	No	-		-		4.00E-03	U	-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Prometon	1610-18-0	0.1	1	-	-	3.23E+09	-	-	-	-	4.42E+04
Prometryn	7287-19-6	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+04
Propachlor	1918-16-7	0.1	1	-	-	3.23E+09	-	-	-	-	3.83E+04
Propanil	709-98-8	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Propanoic acid, 2-(2,4-dichlorophenoxy)-	120-36-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Propargite	2312-35-8	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Propargyl Alcohol	107-19-7	-	1	8.66E+04	1.11E+05	3.23E+09	-	-	-	-	5.90E+03
Propazine	139-40-2	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Propham	122-42-9	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Propiconazole	60207-90-1	0.1	1	-	-	3.23E+09	-	-	-	-	3.83E+04
Propionaldehyde	123-38-6	-	1	1.24E+04	3.26E+04	3.23E+09	-	-	-	-	-
Propionitrile	107-12-0	-	1	2.07E+04	1.56E+04	3.23E+09	-	-	-	-	-
Propionitrile, 3-(NN-dimethylamino)	1738-25-6	-	1	2.62E+05	1.60E+05	3.23E+09	-	-	-	-	-
Propyl Alcohol, n-	71-23-8	-	1	4.01E+04	1.11E+05	3.23E+09	-	-	-	-	-
Propyl benzene	103-65-1	-	1	9.64E+03	2.64E+02	3.23E+09	-	-	-	-	2.95E+05
Propylene	115-07-1	-	1	9.70E+02	3.49E+02	3.23E+09	-	-	-	-	-
Propylene Glycol	57-55-6	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+07
Propylene Glycol Dinitrate	6423-43-4	0.1	1	-	-	3.23E+09	-	-	-	-	-
Propylene Glycol Monoethyl Ether	1569-02-4	-	1	2.14E+05	8.52E+04	3.23E+09	-	-	-	-	2.06E+06
Propylene Glycol Monomethyl Ether	107-98-2	-	1	1.08E+05	1.06E+05	3.23E+09	-	-	-	-	2.06E+06
Propylene Oxide	75-56-9	-	1	1.42E+04	7.77E+04	3.23E+09	8.60E+02	-	9.77E+03	7.91E+02	-
Prussian Blue (Ferric Ferrocyanide)	14038-43-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Pursuit	81335-77-5	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+05
Pydrin	51630-58-1	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+04
Pyrazinyl phosphorothioate, O,O-diethyl O-2-	297-97-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Pyrene	129-00-0	0.13	1	3.28E+06	-	3.23E+09	-	-	-	-	8.85E+04
Pyridine	110-86-1	-	1	7.64E+04	5.30E+05	3.23E+09	-	-	-	-	2.95E+03
Quinalphos	13593-03-8	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+03
Quinoline	91-22-5	0.1	1	-	-	3.23E+09	6.88E+01	5.45E+02	-	6.11E+01	-
Refractory Ceramic Fibers	NA	-	1	-	-	3.23E+09	-	-	-	-	-
Resmethrin	10453-86-8	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Resorcinol	108-46-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Ronnel	299-84-3	-	1	6.40E+05	-	3.23E+09	-	-	-	-	1.47E+05
Rotenone	83-79-4	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+04

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Prometon	1610-18-0	3.51E+05	-	3.93E+04	3.93E+04 nc
Prometryn	7287-19-6	9.35E+04	-	1.05E+04	1.05E+04 nc
Propachlor	1918-16-7	3.04E+05	-	3.40E+04	3.40E+04 nc
Propanil	709-98-8	1.17E+05	-	1.31E+04	1.31E+04 nc
Propanoic acid, 2-(2,4-dichlorophenoxy)-	120-36-5	-	-	-	
Propargite	2312-35-8	4.67E+05	-	5.24E+04	5.24E+04 nc
Propargyl Alcohol	107-19-7	-	-	5.90E+03	5.90E+03 nc
Propazine	139-40-2	4.67E+05	-	5.24E+04	5.24E+04 nc
Propham	122-42-9	4.67E+05	-	5.24E+04	5.24E+04 nc
Propiconazole	60207-90-1	3.04E+05	-	3.40E+04	3.40E+04 nc
Propionaldehyde	123-38-6	-	3.61E+03	3.61E+03	3.61E+03 nc
Propionitrile	107-12-0	-	-	-	
Propionitrile, 3-(NN-dimethylamino)	1738-25-6	-	-	-	
Propyl Alcohol, n-	71-23-8	-	-	-	
Propyl benzene	103-65-1	-	3.52E+05	1.60E+05	1.60E+05 sat
Propylene	115-07-1	-	1.06E+05	1.06E+05	1.06E+05 sat
Propylene Glycol	57-55-6	4.67E+08	-	5.24E+07	5.24E+07 max
Propylene Glycol Dinitrate	6423-43-4	-	3.21E+07	3.21E+07	3.21E+07 max
Propylene Glycol Monoethyl Ether	1569-02-4	-	-	2.06E+06	2.06E+06 sat
Propylene Glycol Monomethyl Ether	107-98-2	-	7.89E+06	1.64E+06	1.64E+06 sat
Propylene Oxide	75-56-9	-	1.55E+04	1.55E+04	7.91E+02 ca*
Prussian Blue (Ferric Ferrocyanide)	14038-43-8	-	-	-	
Pursuit	81335-77-5	5.84E+06	-	6.55E+05	6.55E+05 max
Pydrin	51630-58-1	5.84E+05	-	6.55E+04	6.55E+04 nc
Pyrazinyl phosphorothioate, O,O-diethyl O-2-	297-97-2	-	-	-	
Pyrene	129-00-0	5.39E+05	-	7.60E+04	7.60E+04 nc
Pyridine	110-86-1	-	-	2.95E+03	2.95E+03 nc
Quinalphos	13593-03-8	1.17E+04	-	1.31E+03	1.31E+03 nc
Quinoline	91-22-5	-	-	-	6.11E+01 ca
Refractory Ceramic Fibers	NA	-	3.54E+09	3.54E+09	3.54E+09 max
Resmethrin	10453-86-8	7.01E+05	-	7.86E+04	7.86E+04 nc
Resorcinol	108-46-3	-	-	-	
Ronnel	299-84-3	-	-	1.47E+05	1.47E+05 max
Rotenone	83-79-4	9.35E+04	-	1.05E+04	1.05E+04 nc

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Safrole	94-59-7	Yes	No	2.20E-01	U	6.30E-05	U	-		-		1
Samarium Chloride (Stable, Nonradioactive)	10361-82-7	No	No	-		-		-		-		1
Samarium Nitrate (Stable, Nonradioactive)	10361-83-8	No	No	-		-		-		-		1
Savey	78587-05-0	No	No	-		-		2.50E-02	U	-		1
Scandium	7440-20-2	No	No	-		-		-		-		1
Selenious Acid	7783-00-8	No	No	-		-		5.00E-03	U	-		1
Selenite	14124-67-5	No	No	-		-		-		-		1
Selenium	7782-49-2	No	No	-		-		5.00E-03	U	2.00E-02	U	1
Selenium Sulfide	7446-34-6	No	No	-		-		5.00E-03	U	2.00E-02	U	1
Selenourea	630-10-4	No	No	-		-		-		-		1
Sethoxydim	74051-80-2	No	No	-		-		9.00E-02	U	-		1
Silica (crystalline, respirable)	7631-86-9	No	No	-		-		-		3.00E-03	U	1
Silicon	7440-21-3	No	No	-		-		-		-		1
Silver	7440-22-4	No	No	-		-		5.00E-03	U	-		0.04
Silver Cyanide	506-64-9	No	No	-		-		1.00E-01	U	-		0.04
Simazine	122-34-9	No	No	1.20E-01	U	-		5.00E-03	U	-		1
Sodium	7440-23-5	No	No	-		-		-		-		1
Sodium Acifluorfen	62476-59-9	No	No	-		-		1.30E-02	U	-		1
Sodium Azide	26628-22-8	No	No	-		-		4.00E-03	U	-		1
Sodium Chlorate	7775-09-9	No	No	-		-		-		-		1
Sodium Cyanide	143-33-9	No	No	-		-		1.00E-03	U	-		1
Sodium Dichromate	10588-01-9	Yes	No	5.00E-01	U	1.50E-01	U	2.00E-02	U	2.00E-04	U	0.025
Sodium Diethyldithiocarbamate	148-18-5	No	No	2.70E-01	U	-		3.00E-02	U	-		1
Sodium Fluoride	7681-49-4	No	No	-		-		5.00E-02	U	1.30E-02	U	1
Sodium Fluoroacetate	62-74-8	No	No	-		-		2.00E-05	U	-		1
Sodium Hydroxide	1310-73-2	No	No	-		-		-		-		1
Sodium Metavanadate	13718-26-8	No	No	-		-		1.00E-03	U	-		1
Sodium Perchlorate	7601-89-0	No	No	-		-		7.00E-04	U	-		1
Sodium acid pyrophosphate	7758-16-9	No	No	-		-		4.86E+01	U	-		1
Sodium aluminum phosphate (acidic)	7785-88-8	No	No	-		-		4.86E+01	U	-		1
Sodium aluminum phosphate (anhydrous)	10279-59-1	No	No	-		-		4.86E+01	U	-		1
Sodium aluminum phosphate (tetrahydrate)	10305-76-7	No	No	-		-		4.86E+01	U	-		1
Sodium hexametaphosphate	10124-56-8	No	No	-		-		4.86E+01	U	-		1
Sodium polyphosphate	68915-31-1	No	No	-		-		4.86E+01	U	-		1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Safrole	94-59-7	0.1	1	-	-	3.23E+09	9.38E+02	7.44E+03	1.31E+08	8.33E+02	-
Samarium Chloride (Stable, Nonradioactive)	10361-82-7	-	1	-	-	3.23E+09	-	-	-	-	-
Samarium Nitrate (Stable, Nonradioactive)	10361-83-8	-	1	-	-	3.23E+09	-	-	-	-	-
Savey	78587-05-0	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+04
Scandium	7440-20-2	-	1	-	-	3.23E+09	-	-	-	-	-
Selenious Acid	7783-00-8	-	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Selenite	14124-67-5	-	1	-	-	3.23E+09	-	-	-	-	-
Selenium	7782-49-2	-	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Selenium Sulfide	7446-34-6	-	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Selenourea	630-10-4	0.1	1	-	-	3.23E+09	-	-	-	-	-
Sethoxydim	74051-80-2	0.1	1	-	-	3.23E+09	-	-	-	-	2.65E+05
Silica (crystalline, respirable)	7631-86-9	-	1	-	-	3.23E+09	-	-	-	-	-
Silicon	7440-21-3	-	1	-	-	3.23E+09	-	-	-	-	-
Silver	7440-22-4	-	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Silver Cyanide	506-64-9	-	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Simazine	122-34-9	0.1	1	-	-	3.23E+09	1.72E+03	1.36E+04	-	1.53E+03	1.47E+04
Sodium	7440-23-5	-	1	-	-	3.23E+09	-	-	-	-	-
Sodium Acifluorfen	62476-59-9	0.1	1	-	-	3.23E+09	-	-	-	-	3.83E+04
Sodium Azide	26628-22-8	-	1	-	-	3.23E+09	-	-	-	-	1.18E+04
Sodium Chlorate	7775-09-9	-	1	-	-	3.23E+09	-	-	-	-	-
Sodium Cyanide	143-33-9	-	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Sodium Dichromate	10588-01-9	-	1	-	-	3.23E+09	4.13E+02	-	5.51E+04	4.10E+02	5.90E+04
Sodium Diethyldithiocarbamate	148-18-5	0.1	1	-	-	3.23E+09	7.65E+02	6.06E+03	-	6.79E+02	8.85E+04
Sodium Fluoride	7681-49-4	-	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Sodium Fluoroacetate	62-74-8	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+01
Sodium Hydroxide	1310-73-2	-	1	-	-	3.23E+09	-	-	-	-	-
Sodium Metavanadate	13718-26-8	-	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Sodium Perchlorate	7601-89-0	-	1	-	-	3.23E+09	-	-	-	-	2.06E+03
Sodium acid pyrophosphate	7758-16-9	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Sodium aluminum phosphate (acidic)	7785-88-8	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Sodium aluminum phosphate (anhydrous)	10279-59-1	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Sodium aluminum phosphate (tetrahydrate)	10305-76-7	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Sodium hexametaphosphate	10124-56-8	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Sodium polyphosphate	68915-31-1	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08

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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Safrole	94-59-7	-	-	-	8.33E+02 ca
Samarium Chloride (Stable, Nonradioactive)	10361-82-7	-	-	-	
Samarium Nitrate (Stable, Nonradioactive)	10361-83-8	-	-	-	
Savey	78587-05-0	5.84E+05	-	6.55E+04	6.55E+04 nc
Scandium	7440-20-2	-	-	-	
Selenious Acid	7783-00-8	-	-	1.47E+04	1.47E+04 nc
Selenite	14124-67-5	-	-	-	
Selenium	7782-49-2	-	2.36E+09	1.47E+04	1.47E+04 nc
Selenium Sulfide	7446-34-6	-	2.36E+09	1.47E+04	1.47E+04 nc
Selenourea	630-10-4	-	-	-	
Sethoxydim	74051-80-2	2.10E+06	-	2.36E+05	2.36E+05 max
Silica (crystalline, respirable)	7631-86-9	-	3.54E+08	3.54E+08	3.54E+08 max
Silicon	7440-21-3	-	-	-	
Silver	7440-22-4	-	-	1.47E+04	1.47E+04 nc
Silver Cyanide	506-64-9	-	-	2.95E+05	2.95E+05 max
Simazine	122-34-9	1.17E+05	-	1.31E+04	1.53E+03 ca**
Sodium	7440-23-5	-	-	-	
Sodium Acifluorfen	62476-59-9	3.04E+05	-	3.40E+04	3.40E+04 nc
Sodium Azide	26628-22-8	-	-	1.18E+04	1.18E+04 nc
Sodium Chlorate	7775-09-9	-	-	-	
Sodium Cyanide	143-33-9	-	-	2.95E+03	2.95E+03 nc
Sodium Dichromate	10588-01-9	-	2.36E+07	5.88E+04	4.10E+02 ca
Sodium Diethyldithiocarbamate	148-18-5	7.01E+05	-	7.86E+04	6.79E+02 ca
Sodium Fluoride	7681-49-4	-	1.53E+09	1.47E+05	1.47E+05 max
Sodium Fluoroacetate	62-74-8	4.67E+02	-	5.24E+01	5.24E+01 nc
Sodium Hydroxide	1310-73-2	-	-	-	
Sodium Metavanadate	13718-26-8	-	-	2.95E+03	2.95E+03 nc
Sodium Perchlorate	7601-89-0	-	-	2.06E+03	2.06E+03 nc
Sodium acid pyrophosphate	7758-16-9	-	-	1.43E+08	1.43E+08 max
Sodium aluminum phosphate (acidic)	7785-88-8	-	-	1.43E+08	1.43E+08 max
Sodium aluminum phosphate (anhydrous)	10279-59-1	-	-	1.43E+08	1.43E+08 max
Sodium aluminum phosphate (tetrahydrate)	10305-76-7	-	-	1.43E+08	1.43E+08 max
Sodium hexametaphosphate	10124-56-8	-	-	1.43E+08	1.43E+08 max
Sodium polyphosphate	68915-31-1	-	-	1.43E+08	1.43E+08 max

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Sodium trimetaphosphate	7785-84-4	No	No	-		-		4.86E+01	U	-		1
Sodium tripolyphosphate	7758-29-4	No	No	-		-		4.86E+01	U	-		1
Stearyl Acetate	822-23-1	No	Yes	-		-		-		-		1
Stirofos (Tetrachlorovinphos)	961-11-5	No	No	2.40E-02	U	-		3.00E-02	U	-		1
Strontium Chromate	7789-06-2	Yes	No	5.00E-01	U	1.50E-01	U	2.00E-02	U	2.00E-04	U	0.025
Strontium, Stable	7440-24-6	No	No	-		-		6.00E-01	U	-		1
Strychnine	57-24-9	No	No	-		-		3.00E-04	U	-		1
Styrene	100-42-5	No	Yes	-		-		2.00E-01	U	1.00E+00	U	1
Styrene-Acrylonitrile (SAN) Trimer	NA	No	No	-		-		3.00E-03	U	-		1
Sulfate	14808-79-8	No	No	-		-		-		-		1
Sulfide	18496-25-8	No	No	-		-		-		-		1
Sulfolane	126-33-0	No	No	-		-		1.00E-03	U	2.00E-03	U	1
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	No	No	-		-		8.00E-04	U	-		1
Sulfur	7704-34-9	No	No	-		-		-		-		1
Sulfur Dioxide	7446-09-5	No	Yes	-		-		-		-		1
Sulfur Mustard	505-60-2	No	Yes	-		-		-		-		1
Sulfur Trioxide	7446-11-9	No	Yes	-		-		-		1.00E-03	U	1
Sulfuric Acid	7664-93-9	No	No	-		-		-		1.00E-03	U	1
Systhane	88671-89-0	No	No	-		-		2.50E-02	U	-		1
TCDD, 2,3,7,8-	1746-01-6	No	Yes	1.30E+05	U	3.80E+01	U	7.00E-10	U	4.00E-08	U	1
TCDF, 2,3,7,8-	51207-31-9	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
TCMTB	21564-17-0	No	No	-		-		3.00E-02	U	-		1
Tebuthiuron	34014-18-1	No	No	-		-		7.00E-02	U	-		1
Technetium	7440-26-8	No	No	-		-		-		-		1
Tellurium	13494-80-9	No	No	-		-		-		-		1
Temephos	3383-96-8	No	No	-		-		2.00E-02	U	-		1
Terbacil	5902-51-2	No	No	-		-		1.30E-02	U	-		1
Terbufos	13071-79-9	No	Yes	-		-		2.50E-05	U	-		1
Terbutryn	886-50-0	No	No	-		-		1.00E-03	U	-		1
Tetrabutyl Lead	1920-90-7	No	Yes	-		-		-		-		1
Tetrachloroaniline, 2,3,5,6-	3481-20-7	No	No	-		-		-		-		1
Tetrachlorobenzene, 1,2,3,4-	634-66-2	No	Yes	-		-		-		-		1
Tetrachlorobenzene, 1,2,4,5-	95-94-3	No	Yes	-		-		3.00E-04	U	-		1

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Sodium trimetaphosphate	7785-84-4	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Sodium tripolyphosphate	7758-29-4	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Stearyl Acetate	822-23-1	-	1	8.92E+04	-	3.23E+09	-	-	-	-	-
Stirofos (Tetrachlorovinphos)	961-11-5	0.1	1	-	-	3.23E+09	8.60E+03	6.82E+04	-	7.64E+03	8.85E+04
Strontium Chromate	7789-06-2	-	1	-	-	3.23E+09	4.13E+02	-	5.51E+04	4.10E+02	5.90E+04
Strontium, Stable	7440-24-6	-	1	-	-	3.23E+09	-	-	-	-	1.77E+06
Strychnine	57-24-9	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+02
Styrene	100-42-5	-	1	1.29E+04	8.67E+02	3.23E+09	-	-	-	-	5.90E+05
Styrene-Acrylonitrile (SAN) Trimer	NA	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+03
Sulfate	14808-79-8	-	1	-	-	3.23E+09	-	-	-	-	-
Sulfide	18496-25-8	-	1	-	-	3.23E+09	-	-	-	-	-
Sulfolane	126-33-0	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+03
Sulfur	7704-34-9	-	1	-	-	3.23E+09	-	-	-	-	-
Sulfur Dioxide	7446-09-5	-	1	-	-	3.23E+09	-	-	-	-	-
Sulfur Mustard	505-60-2	-	1	1.21E+05	1.08E+03	3.23E+09	-	-	-	-	-
Sulfur Trioxide	7446-11-9	-	1	-	-	3.23E+09	-	-	-	-	-
Sulfuric Acid	7664-93-9	-	1	-	-	3.23E+09	-	-	-	-	-
Systhane	88671-89-0	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+04
TCDD, 2,3,7,8-	1746-01-6	0.03	1	2.71E+06	-	3.23E+09	1.59E-03	4.20E-02	1.82E-01	1.52E-03	2.06E-03
TCDF, 2,3,7,8-	51207-31-9	0.03	1	4.72E+06	-	3.23E+09	1.59E-02	4.20E-01	3.17E+00	1.52E-02	2.06E-02
TCMTB	21564-17-0	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Tebuthiuron	34014-18-1	0.1	1	-	-	3.23E+09	-	-	-	-	2.06E+05
Technetium	7440-26-8	-	1	-	-	3.23E+09	-	-	-	-	-
Tellurium	13494-80-9	-	1	-	-	3.23E+09	-	-	-	-	-
Temephos	3383-96-8	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Terbacil	5902-51-2	0.1	1	-	-	3.23E+09	-	-	-	-	3.83E+04
Terbufos	13071-79-9	-	1	3.64E+05	3.09E+01	3.23E+09	-	-	-	-	7.37E+01
Terbutryn	886-50-0	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+03
Tetrabutyl Lead	1920-90-7	-	1	6.41E+03	-	3.23E+09	-	-	-	-	-
Tetrachloroaniline, 2,3,5,6-	3481-20-7	0.1	1	-	-	3.23E+09	-	-	-	-	-
Tetrachlorobenzene, 1,2,3,4-	634-66-2	-	1	8.26E+04	-	3.23E+09	-	-	-	-	-
Tetrachlorobenzene, 1,2,4,5-	95-94-3	-	1	6.99E+04	-	3.23E+09	-	-	-	-	8.85E+02

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Sodium trimetaphosphate	7785-84-4	-	-	1.43E+08	1.43E+08 max
Sodium tripolyphosphate	7758-29-4	-	-	1.43E+08	1.43E+08 max
Stearyl Acetate	822-23-1	-	-	-	
Stirofos (Tetrachlorovinphos)	961-11-5	7.01E+05	-	7.86E+04	7.64E+03 ca*
Strontium Chromate	7789-06-2	-	2.36E+07	5.88E+04	4.10E+02 ca
Strontium, Stable	7440-24-6	-	-	1.77E+06	1.77E+06 max
Strychnine	57-24-9	7.01E+03	-	7.86E+02	7.86E+02 nc
Styrene	100-42-5	-	4.71E+05	2.62E+05	2.62E+05 sat
Styrene-Acrylonitrile (SAN) Trimer	NA	7.01E+04	-	7.86E+03	7.86E+03 nc
Sulfate	14808-79-8	-	-	-	
Sulfide	18496-25-8	-	-	-	
Sulfolane	126-33-0	2.34E+04	2.36E+08	2.62E+03	2.62E+03 nc
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	1.87E+04	-	2.10E+03	2.10E+03 nc
Sulfur	7704-34-9	-	-	-	
Sulfur Dioxide	7446-09-5	-	-	-	
Sulfur Mustard	505-60-2	-	-	-	
Sulfur Trioxide	7446-11-9	-	1.18E+08	1.18E+08	1.18E+08 max
Sulfuric Acid	7664-93-9	-	1.18E+08	1.18E+08	1.18E+08 max
Systhane	88671-89-0	5.84E+05	-	6.55E+04	6.55E+04 nc
TCDD, 2,3,7,8-	1746-01-6	5.45E-02	3.95E+00	1.99E-03	1.52E-03 ca**
TCDF, 2,3,7,8-	51207-31-9	5.45E-01	6.88E+01	1.99E-02	1.52E-02 ca**
TCMTB	21564-17-0	7.01E+05	-	7.86E+04	7.86E+04 nc
Tebuthiuron	34014-18-1	1.64E+06	-	1.83E+05	1.83E+05 max
Technetium	7440-26-8	-	-	-	
Tellurium	13494-80-9	-	-	-	
Temephos	3383-96-8	4.67E+05	-	5.24E+04	5.24E+04 nc
Terbacil	5902-51-2	3.04E+05	-	3.40E+04	3.40E+04 nc
Terbufos	13071-79-9	-	-	7.37E+01	7.37E+01 sat
Terbutryn	886-50-0	2.34E+04	-	2.62E+03	2.62E+03 nc
Tetrabutyl Lead	1920-90-7	-	-	-	
Tetrachloroaniline, 2,3,5,6-	3481-20-7	-	-	-	
Tetrachlorobenzene, 1,2,3,4-	634-66-2	-	-	-	
Tetrachlorobenzene, 1,2,4,5-	95-94-3	-	-	8.85E+02	8.85E+02 nc

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR UTILITY WORKER
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	No	No	1.30E+01	U	3.80E-03	U	7.00E-06	U	4.00E-04	U	1
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	No	Yes	3.90E+01	U	1.14E-02	U	2.33E-06	U	1.33E-04	U	1
Tetrachloroethane, 1,1,1,2-	630-20-6	No	Yes	2.60E-02	U	7.40E-06	U	3.00E-02	U	-		1
Tetrachloroethane, 1,1,2,2-	79-34-5	No	Yes	2.00E-01	U	5.80E-05	U	2.00E-02	U	-		1
Tetrachloroethylene	127-18-4	No	Yes	2.10E-03	U	2.60E-07	U	6.00E-03	U	4.00E-02	U	1
Tetrachlorophenol, 2,3,4,5-	4901-51-3	No	No	-		-		-		-		1
Tetrachlorophenol, 2,3,4,6-	58-90-2	No	No	-		-		3.00E-02	U	-		1
Tetrachlorophenols (total)	25167-83-3	No	No	-		-		-		-		1
Tetrachloroterephthalate, 2,3,5,6-	2136-79-0	No	No	-		-		-		-		1
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	No	Yes	2.00E+01	U	-		-		-		1
Tetraethyl Dithiopyrophosphate	3689-24-5	No	No	-		-		5.00E-04	U	-		1
Tetraethyl Lead	78-00-2	No	Yes	-		-		1.00E-07	U	-		1
Tetrafluoroethane, 1,1,1,2-	811-97-2	No	Yes	-		-		-		8.00E+01	U	1
Tetrahydrofuran	109-99-9	No	Yes	-		-		9.00E-01	U	2.00E+00	U	1
Tetrahydrothiophene	110-01-0	No	Yes	-		-		-		-		1
Tetramethyl Lead	75-74-1	No	Yes	-		-		-		-		1
Tetramethylcyclohexane	30501-43-0	No	Yes	-		-		-		-		1
Tetrapotassium phosphate	7320-34-5	No	No	-		-		4.86E+01	U	-		1
Tetrapropyl Lead	3440-75-3	No	Yes	-		-		-		-		1
Tetrasodium pyrophosphate	7722-88-5	No	No	-		-		4.86E+01	U	-		1
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	No	No	-		-		2.00E-03	U	-		1
Thallic Oxide	1314-32-5	No	No	-		-		-		-		1
Thallium (I) Nitrate	10102-45-1	No	No	-		-		7.00E-06	U	-		1
Thallium (Soluble Salts)	7440-28-0	No	No	-		-		1.00E-05	U	-		1
Thallium Acetate	563-68-8	No	No	-		-		6.00E-06	U	-		1
Thallium Carbonate	6533-73-9	No	No	-		-		2.00E-05	U	-		1
Thallium Chloride	7791-12-0	No	No	-		-		6.00E-06	U	-		1
Thallium Selenite	12039-52-0	No	No	-		-		-		-		1
Thallium Sulfate	7446-18-6	No	No	-		-		2.00E-05	U	-		1
Thiobencarb	28249-77-6	No	No	-		-		1.00E-02	U	-		1
Thiocyanates	NA	No	No	-		-		2.00E-04	U	-		1
Thiocyanic Acid	463-56-9	No	Yes	-		-		2.00E-04	U	-		1
Thiodiglycol	111-48-8	No	No	-		-		7.00E-02	U	-		1
Thiofanox	39196-18-4	No	No	-		-		3.00E-04	U	-		1

Site-specific
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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.14	1	-	-	3.23E+09	1.59E+01	8.99E+01	2.17E+06	1.35E+01	2.06E+01
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.14	1	1.00E+06	-	3.23E+09	5.29E+00	3.00E+01	2.24E+02	4.41E+00	6.87E+00
Tetrachloroethane, 1,1,1,2-	630-20-6	-	1	7.83E+03	6.80E+02	3.23E+09	7.94E+03	-	2.70E+03	2.02E+03	8.85E+04
Tetrachloroethane, 1,1,2,2-	79-34-5	-	1	2.08E+04	1.90E+03	3.23E+09	1.03E+03	-	9.18E+02	4.86E+02	5.90E+04
Tetrachloroethylene	127-18-4	-	1	3.24E+03	1.66E+02	3.23E+09	9.83E+04	-	3.18E+04	2.40E+04	1.77E+04
Tetrachlorophenol, 2,3,4,5-	4901-51-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Tetrachlorophenol, 2,3,4,6-	58-90-2	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Tetrachlorophenols (total)	25167-83-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Tetrachloroterephthalate, 2,3,5,6-	2136-79-0	0.1	1	-	-	3.23E+09	-	-	-	-	-
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	-	1	1.46E+05	-	3.23E+09	1.03E+01	-	-	1.03E+01	-
Tetraethyl Dithiopyrophosphate	3689-24-5	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+03
Tetraethyl Lead	78-00-2	-	1	2.64E+03	2.43E+00	3.23E+09	-	-	-	-	2.95E-01
Tetrafluoroethane, 1,1,1,2-	811-97-2	-	1	1.68E+03	1.09E+03	3.23E+09	-	-	-	-	-
Tetrahydrofuran	109-99-9	0.03	1	1.69E+04	1.65E+05	3.23E+09	-	-	-	-	2.65E+06
Tetrahydrothiophene	110-01-0	-	1	1.81E+04	3.44E+03	3.23E+09	-	-	-	-	-
Tetramethyl Lead	75-74-1	-	1	1.89E+03	3.64E+01	3.23E+09	-	-	-	-	-
Tetramethylcyclohexane	30501-43-0	-	1	-	-	3.23E+09	-	-	-	-	-
Tetrapotassium phosphate	7320-34-5	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Tetrapropyl Lead	3440-75-3	-	1	3.65E+03	-	3.23E+09	-	-	-	-	-
Tetrasodium pyrophosphate	7722-88-5	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	0.00065	1	-	-	3.23E+09	-	-	-	-	5.90E+03
Thallic Oxide	1314-32-5	-	1	-	-	3.23E+09	-	-	-	-	-
Thallium (I) Nitrate	10102-45-1	-	1	-	-	3.23E+09	-	-	-	-	2.06E+01
Thallium (Soluble Salts)	7440-28-0	-	1	-	-	3.23E+09	-	-	-	-	2.95E+01
Thallium Acetate	563-68-8	0.1	1	-	-	3.23E+09	-	-	-	-	1.77E+01
Thallium Carbonate	6533-73-9	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+01
Thallium Chloride	7791-12-0	-	1	-	-	3.23E+09	-	-	-	-	1.77E+01
Thallium Selenite	12039-52-0	-	1	-	-	3.23E+09	-	-	-	-	-
Thallium Sulfate	7446-18-6	-	1	-	-	3.23E+09	-	-	-	-	5.90E+01
Thiobencarb	28249-77-6	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Thiocyanates	NA	-	1	-	-	3.23E+09	-	-	-	-	5.90E+02
Thiocyanic Acid	463-56-9	-	1	-	-	3.23E+09	-	-	-	-	5.90E+02
Thiodiglycol	111-48-8	0.0075	1	-	-	3.23E+09	-	-	-	-	2.06E+05
Thiofanox	39196-18-4	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+02

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	1.17E+02	4.72E+07	1.75E+01	1.35E+01 ca**
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	3.89E+01	4.86E+03	5.83E+00	4.41E+00 ca**
Tetrachloroethane, 1,1,1,2-	630-20-6	-	-	8.85E+04	2.02E+03 sat
Tetrachloroethane, 1,1,2,2-	79-34-5	-	-	5.90E+04	4.86E+02 ca
Tetrachloroethylene	127-18-4	-	4.73E+03	3.73E+03	3.73E+03 sat
Tetrachlorophenol, 2,3,4,5-	4901-51-3	-	-	-	
Tetrachlorophenol, 2,3,4,6-	58-90-2	7.01E+05	-	7.86E+04	7.86E+04 nc
Tetrachlorophenols (total)	25167-83-3	-	-	-	
Tetrachloroterephthalate, 2,3,5,6-	2136-79-0	-	-	-	
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	-	-	-	1.03E+01 ca
Tetraethyl Dithiopyrophosphate	3689-24-5	1.17E+04	-	1.31E+03	1.31E+03 nc
Tetraethyl Lead	78-00-2	-	-	2.95E-01	2.95E-01 nc
Tetrafluoroethane, 1,1,1,2-	811-97-2	-	4.92E+06	4.92E+06	4.92E+06 sat
Tetrahydrofuran	109-99-9	7.01E+07	1.23E+06	8.31E+05	8.31E+05 sat
Tetrahydrothiophene	110-01-0	-	-	-	
Tetramethyl Lead	75-74-1	-	-	-	
Tetramethylcyclohexane	30501-43-0	-	-	-	
Tetrapotassium phosphate	7320-34-5	-	-	1.43E+08	1.43E+08 max
Tetrapropyl Lead	3440-75-3	-	-	-	
Tetrasodium pyrophosphate	7722-88-5	-	-	1.43E+08	1.43E+08 max
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	7.19E+06	-	5.89E+03	5.89E+03 nc
Thallic Oxide	1314-32-5	-	-	-	
Thallium (I) Nitrate	10102-45-1	-	-	2.06E+01	2.06E+01 nc
Thallium (Soluble Salts)	7440-28-0	-	-	2.95E+01	2.95E+01 nc
Thallium Acetate	563-68-8	1.40E+02	-	1.57E+01	1.57E+01 nc
Thallium Carbonate	6533-73-9	4.67E+02	-	5.24E+01	5.24E+01 nc
Thallium Chloride	7791-12-0	-	-	1.77E+01	1.77E+01 nc
Thallium Selenite	12039-52-0	-	-	-	
Thallium Sulfate	7446-18-6	-	-	5.90E+01	5.90E+01 nc
Thiobencarb	28249-77-6	2.34E+05	-	2.62E+04	2.62E+04 nc
Thiocyanates	NA	-	-	5.90E+02	5.90E+02 nc
Thiocyanic Acid	463-56-9	-	-	5.90E+02	5.90E+02 nc
Thiodiglycol	111-48-8	2.18E+07	-	2.05E+05	2.05E+05 max
Thiofanox	39196-18-4	7.01E+03	-	7.86E+02	7.86E+02 nc

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Thiophanate, Methyl	23564-05-8	No	No	-		-		8.00E-02	U	-		1
Thiophene	110-02-1	No	Yes	-		-		-		-		1
Thiram	137-26-8	No	No	-		-		5.00E-03	U	-		1
Thorium	NA	No	No	-		-		-		-		1
Thymol	89-83-8	No	No	-		-		-		-		1
Tin	7440-31-5	No	No	-		-		6.00E-01	U	-		1
Titanium	7440-32-6	No	No	-		-		-		-		1
Titanium Tetrachloride	7550-45-0	No	Yes	-		-		-		1.00E-04	U	1
Toluene	108-88-3	No	Yes	-		-		8.00E-02	U	5.00E+00	U	1
Toluene-2,5-diamine	95-70-5	No	No	1.80E-01	U	-		2.00E-04	U	-		1
Toluenediamine, 2,3-	2687-25-4	No	No	-		-		-		-		1
Toluenediamine, 3,4-	496-72-0	No	No	-		-		-		-		1
Toluidine, p-	106-49-0	No	No	3.00E-02	U	-		4.00E-03	U	-		1
Total Petroleum Hydrocarbons (Aliphatic High)	NA	No	Yes	-		-		3.00E+00	U	-		1
Total Petroleum Hydrocarbons (Aliphatic Low)	NA	No	Yes	-		-		-		6.00E-01	U	1
Total Petroleum Hydrocarbons (Aliphatic Medium)	NA	No	Yes	-		-		1.00E-02	U	1.00E-01	U	1
Total Petroleum Hydrocarbons (Aromatic High)	NA	No	No	-		-		4.00E-02	U	-		1
Total Petroleum Hydrocarbons (Aromatic Low)	NA	No	Yes	-		-		4.00E-03	U	3.00E-02	U	1
Total Petroleum Hydrocarbons (Aromatic Medium)	NA	No	Yes	-		-		4.00E-03	U	3.00E-03	U	1
Toxaphene	8001-35-2	No	No	1.10E+00	U	3.20E-04	U	-		-		1
Tralomethrin	66841-25-6	No	No	-		-		7.50E-03	U	-		1
Tri-n-butyltin	688-73-3	No	Yes	-		-		3.00E-04	U	-		1
Triacetin	102-76-1	No	No	-		-		8.00E+01	U	-		1
Triallate	2303-17-5	No	Yes	-		-		1.30E-02	U	-		1
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	No	No	-		-		4.86E+01	U	-		1
Triasulfuron	82097-50-5	No	No	-		-		1.00E-02	U	-		1
Triaziquone	68-76-8	No	No	-		-		-		-		1
Tribromobenzene, 1,2,4-	615-54-3	No	Yes	-		-		5.00E-03	U	-		1
Tribromochloromethane	594-15-0	No	Yes	-		-		-		-		1

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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Thiophanate, Methyl	23564-05-8	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+05
Thiophene	110-02-1	-	1	5.77E+03	1.80E+03	3.23E+09	-	-	-	-	-
Thiram	137-26-8	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+04
Thorium	NA	-	1	-	-	3.23E+09	-	-	-	-	-
Thymol	89-83-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Tin	7440-31-5	-	1	-	-	3.23E+09	-	-	-	-	1.77E+06
Titanium	7440-32-6	-	1	-	-	3.23E+09	-	-	-	-	-
Titanium Tetrachloride	7550-45-0	-	1	-	-	3.23E+09	-	-	-	-	-
Toluene	108-88-3	-	1	5.92E+03	8.18E+02	3.23E+09	-	-	-	-	2.36E+05
Toluene-2,5-diamine	95-70-5	0.1	1	-	-	3.23E+09	1.15E+03	9.09E+03	-	1.02E+03	5.90E+02
Toluenediamine, 2,3-	2687-25-4	0.1	1	-	-	3.23E+09	-	-	-	-	-
Toluenediamine, 3,4-	496-72-0	0.1	1	-	-	3.23E+09	-	-	-	-	-
Toluidine, p-	106-49-0	0.1	1	-	-	3.23E+09	6.88E+03	5.45E+04	-	6.11E+03	1.18E+04
Total Petroleum Hydrocarbons (Aliphatic High)	NA	-	1	1.46E+03	3.41E-01	3.23E+09	-	-	-	-	8.85E+06
Total Petroleum Hydrocarbons (Aliphatic Low)	NA	-	1	1.14E+03	1.41E+02	3.23E+09	-	-	-	-	-
Total Petroleum Hydrocarbons (Aliphatic Medium)	NA	-	1	1.44E+03	6.86E+00	3.23E+09	-	-	-	-	2.95E+04
Total Petroleum Hydrocarbons (Aromatic High)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	1.18E+05
Total Petroleum Hydrocarbons (Aromatic Low)	NA	-	1	4.88E+03	1.82E+03	3.23E+09	-	-	-	-	1.18E+04
Total Petroleum Hydrocarbons (Aromatic Medium)	NA	-	1	7.23E+04	-	3.23E+09	-	-	-	-	1.18E+04
Toxaphene	8001-35-2	0.1	1	-	-	3.23E+09	1.88E+02	1.49E+03	2.58E+07	1.67E+02	-
Tralomethrin	66841-25-6	0.1	1	-	-	3.23E+09	-	-	-	-	2.21E+04
Tri-n-butyltin	688-73-3	-	1	4.63E+03	-	3.23E+09	-	-	-	-	8.85E+02
Triacetin	102-76-1	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+08
Triallate	2303-17-5	-	1	5.00E+05	-	3.23E+09	-	-	-	-	3.83E+04
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Triasulfuron	82097-50-5	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Triaziquone	68-76-8	0.1	1	-	-	3.23E+09	-	-	-	-	-
Tribromobenzene, 1,2,4-	615-54-3	-	1	6.24E+04	-	3.23E+09	-	-	-	-	1.47E+04
Tribromochloromethane	594-15-0	-	1	5.65E+04	-	3.23E+09	-	-	-	-	-

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Thiophanate, Methyl	23564-05-8	1.87E+06	-	2.10E+05	2.10E+05 max
Thiophene	110-02-1	-	-	-	
Thiram	137-26-8	1.17E+05	-	1.31E+04	1.31E+04 nc
Thorium	NA	-	-	-	
Thymol	89-83-8	-	-	-	
Tin	7440-31-5	-	-	1.77E+06	1.77E+06 max
Titanium	7440-32-6	-	-	-	
Titanium Tetrachloride	7550-45-0	-	1.18E+07	1.18E+07	1.18E+07 max
Toluene	108-88-3	-	1.08E+06	1.94E+05	1.94E+05 sat
Toluene-2,5-diamine	95-70-5	4.67E+03	-	5.24E+02	5.24E+02 nc
Toluenediamine, 2,3-	2687-25-4	-	-	-	
Toluenediamine, 3,4-	496-72-0	-	-	-	
Toluidine, p-	106-49-0	9.35E+04	-	1.05E+04	6.11E+03 ca**
Total Petroleum Hydrocarbons (Aliphatic High)	NA	-	-	8.85E+06	8.85E+06 sat
Total Petroleum Hydrocarbons (Aliphatic Low)	NA	-	2.51E+04	2.51E+04	2.51E+04 sat
Total Petroleum Hydrocarbons (Aliphatic Medium)	NA	-	5.26E+03	4.46E+03	4.46E+03 sat
Total Petroleum Hydrocarbons (Aromatic High)	NA	9.35E+05	-	1.05E+05	1.05E+05 max
Total Petroleum Hydrocarbons (Aromatic Low)	NA	-	5.34E+03	3.68E+03	3.68E+03 sat
Total Petroleum Hydrocarbons (Aromatic Medium)	NA	-	7.91E+03	4.74E+03	4.74E+03 nc
Toxaphene	8001-35-2	-	-	-	1.67E+02 ca
Tralomethrin	66841-25-6	1.75E+05	-	1.96E+04	1.96E+04 nc
Tri-n-butyltin	688-73-3	-	-	8.85E+02	8.85E+02 nc
Triacetin	102-76-1	1.87E+09	-	2.10E+08	2.10E+08 max
Triallate	2303-17-5	-	-	3.83E+04	3.83E+04 nc
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	-	-	1.43E+08	1.43E+08 max
Triasulfuron	82097-50-5	2.34E+05	-	2.62E+04	2.62E+04 nc
Triaziquone	68-76-8	-	-	-	
Tribromobenzene, 1,2,4-	615-54-3	-	-	1.47E+04	1.47E+04 nc
Tribromochloromethane	594-15-0	-	-	-	

Site-specific
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Tribromodiphenyl Ether	49690-94-0	No	Yes	-		-		-		-		1
Tribromophenol, 2,4,6-	118-79-6	No	No	-		-		-		-		1
Tributyl Phosphate	126-73-8	No	No	9.00E-03	U	-		1.00E-02	U	-		1
Tributyltin	56573-85-4	No	Yes	-		-		-		-		1
Tributyltin Compounds	NA	No	No	-		-		3.00E-04	U	-		1
Tributyltin Oxide	56-35-9	No	No	-		-		3.00E-04	U	-		1
Tributyltin chloride	1461-22-9	No	Yes	-		-		-		-		1
Tributyltin fluoride	1983-10-4	No	Yes	-		-		-		-		1
Tributyltin linoleate	24124-25-2	No	Yes	-		-		-		-		1
Tributyltin methacrylate	2155-70-6	No	Yes	-		-		-		-		1
Tributyltin naphthenate	85409-17-2	No	No	-		-		-		-		1
Tricaine Methanesulfonate	886-86-2	No	No	-		-		-		-		1
Tricalcium phosphate	7758-87-4	No	No	-		-		4.86E+01	U	-		1
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	No	Yes	-		-		3.00E+01	U	3.00E+01	U	1
Trichloro-2'-hydroxydiphenylether	3380-34-5	No	No	-		-		-		-		1
Trichloroacetic Acid	76-03-9	No	No	7.00E-02	U	-		2.00E-02	U	-		1
Trichloroaniline HCl, 2,4,6-	33663-50-2	No	No	2.90E-02	U	-		-		-		1
Trichloroaniline, 2,4,5-	636-30-6	No	No	-		-		-		-		1
Trichloroaniline, 2,4,6-	634-93-5	No	No	7.00E-03	U	-		3.00E-05	U	-		1
Trichlorobenzene	12002-48-1	No	Yes	-		-		-		-		1
Trichlorobenzene, 1,2,3-	87-61-6	No	Yes	-		-		8.00E-04	U	-		1
Trichlorobenzene, 1,2,4-	120-82-1	No	Yes	2.90E-02	U	-		1.00E-02	U	2.00E-03	U	1
Trichloroethane, 1,1,1-	71-55-6	No	Yes	-		-		2.00E+00	U	5.00E+00	U	1
Trichloroethane, 1,1,2-	79-00-5	No	Yes	5.70E-02	U	1.60E-05	U	4.00E-03	U	2.00E-04	U	1
Trichloroethylene	79-01-6	Yes	Yes	4.60E-02	U	4.10E-06	U	5.00E-04	U	2.00E-03	U	1
Trichlorofluoromethane	75-69-4	No	Yes	-		-		3.00E-01	U	7.00E-01	U	1
Trichlorophenol, 2,4,5-	95-95-4	No	No	-		-		1.00E-01	U	-		1
Trichlorophenol, 2,4,6-	88-06-2	No	No	1.10E-02	U	3.10E-06	U	1.00E-03	U	-		1
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	No	No	-		-		1.00E-02	U	-		1
Trichlorophenoxyacetic acid, 2,4,5- Amine Salts, PARENT (2,4,5-T)	NA	Yes	No	-		-		-		-		1
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	No	No	-		-		8.00E-03	U	-		1
Trichloropropane, 1,1,2-	598-77-6	No	Yes	-		-		5.00E-03	U	-		1
Trichloropropane, 1,2,3-	96-18-4	Yes	Yes	3.00E+01	U	-		4.00E-03	U	3.00E-04	U	1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Tribromodiphenyl Ether	49690-94-0	-	1	1.07E+06	-	3.23E+09	-	-	-	-	-
Tribromophenol, 2,4,6-	118-79-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Tributyl Phosphate	126-73-8	0.1	1	-	-	3.23E+09	2.29E+04	1.82E+05	-	2.04E+04	2.95E+04
Tributyltin	56573-85-4	-	1	4.95E+04	-	3.23E+09	-	-	-	-	-
Tributyltin Compounds	NA	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+02
Tributyltin Oxide	56-35-9	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+02
Tributyltin chloride	1461-22-9	-	1	5.94E+03	-	3.23E+09	-	-	-	-	-
Tributyltin fluoride	1983-10-4	-	1	8.59E+03	-	3.23E+09	-	-	-	-	-
Tributyltin linoleate	24124-25-2	-	1	1.67E+05	-	3.23E+09	-	-	-	-	-
Tributyltin methacrylate	2155-70-6	-	1	1.41E+04	-	3.23E+09	-	-	-	-	-
Tributyltin naphthenate	85409-17-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Tricaine Methanesulfonate	886-86-2	0.1	1	-	-	3.23E+09	-	-	-	-	-
Tricalcium phosphate	7758-87-4	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	-	1	1.77E+03	9.10E+02	3.23E+09	-	-	-	-	8.85E+07
Trichloro-2'-hydroxydiphenylether	3380-34-5	0.1	1	-	-	3.23E+09	-	-	-	-	-
Trichloroacetic Acid	76-03-9	0.1	1	-	-	3.23E+09	2.95E+03	2.34E+04	-	2.62E+03	5.90E+04
Trichloroaniline HCl, 2,4,6-	33663-50-2	0.1	1	-	-	3.23E+09	7.12E+03	5.64E+04	-	6.32E+03	-
Trichloroaniline, 2,4,5-	636-30-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Trichloroaniline, 2,4,6-	634-93-5	0.1	1	-	-	3.23E+09	2.95E+04	2.34E+05	-	2.62E+04	8.85E+01
Trichlorobenzene	12002-48-1	-	1	3.55E+04	-	3.23E+09	-	-	-	-	-
Trichlorobenzene, 1,2,3-	87-61-6	-	1	4.44E+04	-	3.23E+09	-	-	-	-	2.36E+03
Trichlorobenzene, 1,2,4-	120-82-1	-	1	4.13E+04	4.05E+02	3.23E+09	7.12E+03	-	-	7.12E+03	2.95E+04
Trichloroethane, 1,1,1-	71-55-6	-	1	2.27E+03	6.40E+02	3.23E+09	-	-	-	-	5.90E+06
Trichloroethane, 1,1,2-	79-00-5	-	1	9.95E+03	2.16E+03	3.23E+09	3.62E+03	-	1.59E+03	1.10E+03	1.18E+04
Trichloroethylene	79-01-6	-	1	3.04E+03	6.92E+02	3.23E+09	4.49E+03	-	1.90E+03	1.33E+03	1.47E+03
Trichlorofluoromethane	75-69-4	-	1	1.43E+03	1.23E+03	3.23E+09	-	-	-	-	8.85E+05
Trichlorophenol, 2,4,5-	95-95-4	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+05
Trichlorophenol, 2,4,6-	88-06-2	0.1	1	-	-	3.23E+09	1.88E+04	1.49E+05	2.66E+09	1.67E+04	2.95E+03
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Trichlorophenoxyacetic acid, 2,4,5- Amine Salts, PARENT (2,4,5-T)	NA	-	1	-	-	3.23E+09	-	-	-	-	-
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	0.1	1	-	-	3.23E+09	-	-	-	-	2.36E+04
Trichloropropane, 1,1,2-	598-77-6	-	1	2.07E+04	1.28E+03	3.23E+09	-	-	-	-	1.47E+04
Trichloropropane, 1,2,3-	96-18-4	-	1	2.17E+04	1.40E+03	3.23E+09	6.88E+00	-	-	6.88E+00	1.18E+04

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Tribromodiphenyl Ether	49690-94-0	-	-	-	
Tribromophenol, 2,4,6-	118-79-6	-	-	-	
Tributyl Phosphate	126-73-8	2.34E+05	-	2.62E+04	2.04E+04 ca**
Tributyltin	56573-85-4	-	-	-	
Tributyltin Compounds	NA	7.01E+03	-	7.86E+02	7.86E+02 nc
Tributyltin Oxide	56-35-9	7.01E+03	-	7.86E+02	7.86E+02 nc
Tributyltin chloride	1461-22-9	-	-	-	
Tributyltin fluoride	1983-10-4	-	-	-	
Tributyltin linoleate	24124-25-2	-	-	-	
Tributyltin methacrylate	2155-70-6	-	-	-	
Tributyltin naphthenate	85409-17-2	-	-	-	
Tricaine Methanesulfonate	886-86-2	-	-	-	
Tricalcium phosphate	7758-87-4	-	-	1.43E+08	1.43E+08 max
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	-	1.94E+06	1.90E+06	1.90E+06 sat
Trichloro-2'-hydroxydiphenylether	3380-34-5	-	-	-	
Trichloroacetic Acid	76-03-9	4.67E+05	-	5.24E+04	2.62E+03 ca*
Trichloroaniline HCl, 2,4,6-	33663-50-2	-	-	-	6.32E+03 ca
Trichloroaniline, 2,4,5-	636-30-6	-	-	-	
Trichloroaniline, 2,4,6-	634-93-5	7.01E+02	-	7.86E+01	7.86E+01 nc
Trichlorobenzene	12002-48-1	-	-	-	
Trichlorobenzene, 1,2,3-	87-61-6	-	-	2.36E+03	2.36E+03 nc
Trichlorobenzene, 1,2,4-	120-82-1	-	3.02E+03	2.74E+03	2.74E+03 sat
Trichloroethane, 1,1,1-	71-55-6	-	4.15E+05	3.88E+05	3.88E+05 sat
Trichloroethane, 1,1,2-	79-00-5	-	7.27E+01	7.22E+01	7.22E+01 nc
Trichloroethylene	79-01-6	-	2.22E+02	1.93E+02	1.93E+02 nc
Trichlorofluoromethane	75-69-4	-	3.65E+04	3.50E+04	3.50E+04 sat
Trichlorophenol, 2,4,5-	95-95-4	2.34E+06	-	2.62E+05	2.62E+05 max
Trichlorophenol, 2,4,6-	88-06-2	2.34E+04	-	2.62E+03	2.62E+03 nc
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	2.34E+05	-	2.62E+04	2.62E+04 nc
Trichlorophenoxyacetic acid, 2,4,5- Amine Salts, PARENT (2,4,5-T)	NA	-	-	-	
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	1.87E+05	-	2.10E+04	2.10E+04 nc
Trichloropropane, 1,1,2-	598-77-6	-	-	1.47E+04	1.47E+04 sat
Trichloropropane, 1,2,3-	96-18-4	-	2.38E+02	2.33E+02	6.88E+00 ca*

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Trichloropropene, 1,2,3-	96-19-5	No	Yes	-		-		3.00E-03	U	3.00E-04	U	1
Trichlorotoluene, 2,3,6-	2077-46-5	No	Yes	-		-		-		-		1
Trichlorotoluene, alpha 2,6-	2014-83-7	No	Yes	-		-		-		-		1
Triclorophenols (total)	NA	No	No	-		-		-		-		1
Tricresyl Phosphate (TCP)	1330-78-5	No	No	-		-		2.00E-02	U	-		1
Tridiphane	58138-08-2	No	No	-		-		3.00E-03	U	-		1
Tridymite	15468-32-3	No	No	-		-		-		-		1
Triethyl Lead	5224-23-7	No	Yes	-		-		-		-		1
Triethyl phosphorothioate [O,O,O-]	126-68-1	No	Yes	-		-		-		-		1
Triethylamine	121-44-8	No	Yes	-		-		-		7.00E-03	U	1
Triethylene Glycol	112-27-6	No	No	-		-		2.00E+00	U	-		1
Trifluralin	1582-09-8	No	Yes	7.70E-03	U	-		7.50E-03	U	-		1
Trimagnesium phosphate	7757-87-1	No	No	-		-		4.86E+01	U	-		1
Trimethyl Lead	7442-13-9	No	Yes	-		-		-		-		1
Trimethyl Phosphate	512-56-1	No	No	2.00E-02	U	-		1.00E-02	U	-		1
Trimethyl-4-Propenylnaphthalene, 1,2,3-	26137-53-1	No	Yes	-		-		-		-		1
Trimethylbenzene, 1,2,3-	526-73-8	No	Yes	-		-		-		5.00E-03	U	1
Trimethylbenzene, 1,2,4-	95-63-6	No	Yes	-		-		-		7.00E-03	U	1
Trimethylbenzene, 1,3,5-	108-67-8	No	Yes	-		-		1.00E-02	U	-		1
Trimethylethyl Lead	1762-26-1	No	Yes	-		-		-		-		1
Trimethylpentane, 2,2,4-	540-84-1	No	Yes	-		-		-		-		1
Trinitrobenzene, 1,3,5-	99-35-4	No	No	-		-		3.00E-02	U	-		1
Trinitrotoluene, 2,4,6-	118-96-7	No	No	3.00E-02	U	-		5.00E-04	U	-		1
Triphenylphosphine Oxide	791-28-6	No	No	-		-		2.00E-02	U	-		1
Triphenyltin	668-34-8	No	Yes	-		-		-		-		1
Tripotassium phosphate	7778-53-2	No	No	-		-		4.86E+01	U	-		1
Tripropyl Lead	6618-03-7	No	Yes	-		-		-		-		1
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	No	No	-		-		2.00E-02	U	-		1
Tris(1-chloro-2-propyl)phosphate	13674-84-5	No	No	-		-		1.00E-02	U	-		1
Tris(2,3-dibromopropyl)phosphate	126-72-7	No	Yes	2.30E+00	U	6.60E-04	U	-		-		1
Tris(2-chloroethyl)phosphate	115-96-8	No	No	2.00E-02	U	-		7.00E-03	U	-		1
Tris(2-ethylhexyl)phosphate	78-42-2	No	No	3.20E-03	U	-		1.00E-01	U	-		1
Trisbutoxyethyl Phosphate	78-51-3	No	No	-		-		-		-		1
Trisodium phosphate	7601-54-9	No	No	-		-		4.86E+01	U	-		1

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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Trichloropropene, 1,2,3-	96-19-5	-	1	3.23E+03	4.51E+02	3.23E+09	-	-	-	-	8.85E+03
Trichlorotoluene, 2,3,6-	2077-46-5	-	1	5.83E+04	-	3.23E+09	-	-	-	-	-
Trichlorotoluene, alpha 2,6-	2014-83-7	-	1	9.70E+04	-	3.23E+09	-	-	-	-	-
Triclorophenols (total)	NA	0.1	1	-	-	3.23E+09	-	-	-	-	-
Tricresyl Phosphate (TCP)	1330-78-5	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Tridiphane	58138-08-2	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+03
Tridymite	15468-32-3	-	1	-	-	3.23E+09	-	-	-	-	-
Triethyl Lead	5224-23-7	-	1	1.80E+03	5.67E+03	3.23E+09	-	-	-	-	-
Triethyl phosphorothioate [O,O,O-]	126-68-1	-	1	3.87E+04	4.67E+02	3.23E+09	-	-	-	-	-
Triethylamine	121-44-8	-	1	2.18E+04	2.78E+04	3.23E+09	-	-	-	-	-
Triethylene Glycol	112-27-6	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+06
Trifluralin	1582-09-8	-	1	7.07E+05	-	3.23E+09	2.68E+04	-	-	2.68E+04	2.21E+04
Trimagnesium phosphate	7757-87-1	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Trimethyl Lead	7442-13-9	-	1	1.54E+03	6.92E+04	3.23E+09	-	-	-	-	-
Trimethyl Phosphate	512-56-1	0.1	1	-	-	3.23E+09	1.03E+04	8.18E+04	-	9.17E+03	2.95E+04
Trimethyl-4-Propenylnaphthalene, 1,2,3-	26137-53-1	-	1	6.96E+05	-	3.23E+09	-	-	-	-	-
Trimethylbenzene, 1,2,3-	526-73-8	-	1	1.30E+04	2.93E+02	3.23E+09	-	-	-	-	-
Trimethylbenzene, 1,2,4-	95-63-6	-	1	1.09E+04	2.18E+02	3.23E+09	-	-	-	-	-
Trimethylbenzene, 1,3,5-	108-67-8	-	1	9.11E+03	1.82E+02	3.23E+09	-	-	-	-	2.95E+04
Trimethylethyl Lead	1762-26-1	-	1	1.98E+03	2.51E+04	3.23E+09	-	-	-	-	-
Trimethylpentane, 2,2,4-	540-84-1	-	1	1.29E+03	6.10E+01	3.23E+09	-	-	-	-	-
Trinitrobenzene, 1,3,5-	99-35-4	0.019	1	-	-	3.23E+09	-	-	-	-	8.85E+04
Trinitrotoluene, 2,4,6-	118-96-7	0.032	1	-	-	3.23E+09	6.88E+03	1.70E+05	-	6.62E+03	1.47E+03
Triphenylphosphine Oxide	791-28-6	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Triphenyltin	668-34-8	-	1	2.79E+06	-	3.23E+09	-	-	-	-	-
Tripotassium phosphate	7778-53-2	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08
Tripropyl Lead	6618-03-7	-	1	2.30E+03	5.57E+02	3.23E+09	-	-	-	-	-
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	0.1	1	-	-	3.23E+09	-	-	-	-	5.90E+04
Tris(1-chloro-2-propyl)phosphate	13674-84-5	0.1	1	-	-	3.23E+09	-	-	-	-	2.95E+04
Tris(2,3-dibromopropyl)phosphate	126-72-7	-	1	1.25E+06	4.67E+02	3.23E+09	8.98E+01	-	4.82E+03	8.81E+01	-
Tris(2-chloroethyl)phosphate	115-96-8	0.1	1	-	-	3.23E+09	1.03E+04	8.18E+04	-	9.17E+03	2.06E+04
Tris(2-ethylhexyl)phosphate	78-42-2	0.1	1	-	-	3.23E+09	6.45E+04	5.11E+05	-	5.73E+04	2.95E+05
Trisbutoxyethyl Phosphate	78-51-3	0.1	1	-	-	3.23E+09	-	-	-	-	-
Trisodium phosphate	7601-54-9	-	1	-	-	3.23E+09	-	-	-	-	1.43E+08

Site-specific
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Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Trichloropropene, 1,2,3-	96-19-5	-	3.53E+01	3.52E+01	3.52E+01 nc
Trichlorotoluene, 2,3,6-	2077-46-5	-	-	-	
Trichlorotoluene, alpha 2,6-	2014-83-7	-	-	-	
Triclorophenols (total)	NA	-	-	-	
Tricresyl Phosphate (TCP)	1330-78-5	4.67E+05	-	5.24E+04	5.24E+04 nc
Tridiphane	58138-08-2	7.01E+04	-	7.86E+03	7.86E+03 nc
Tridymite	15468-32-3	-	-	-	
Triethyl Lead	5224-23-7	-	-	-	
Triethyl phosphorothioate [O,O,O-]	126-68-1	-	-	-	
Triethylamine	121-44-8	-	5.57E+03	5.57E+03	5.57E+03 nc
Triethylene Glycol	112-27-6	4.67E+07	-	5.24E+06	5.24E+06 max
Trifluralin	1582-09-8	-	-	2.21E+04	2.21E+04 nc
Trimagnesium phosphate	7757-87-1	-	-	1.43E+08	1.43E+08 max
Trimethyl Lead	7442-13-9	-	-	-	
Trimethyl Phosphate	512-56-1	2.34E+05	-	2.62E+04	9.17E+03 ca**
Trimethyl-4-Propenylnaphthalene, 1,2,3-	26137-53-1	-	-	-	
Trimethylbenzene, 1,2,3-	526-73-8	-	2.38E+03	2.38E+03	2.38E+03 sat
Trimethylbenzene, 1,2,4-	95-63-6	-	2.79E+03	2.79E+03	2.79E+03 sat
Trimethylbenzene, 1,3,5-	108-67-8	-	-	2.95E+04	2.95E+04 sat
Trimethylethyl Lead	1762-26-1	-	-	-	
Trimethylpentane, 2,2,4-	540-84-1	-	-	-	
Trinitrobenzene, 1,3,5-	99-35-4	3.69E+06	-	8.64E+04	8.64E+04 nc
Trinitrotoluene, 2,4,6-	118-96-7	3.65E+04	-	1.42E+03	1.42E+03 nc
Triphenylphosphine Oxide	791-28-6	4.67E+05	-	5.24E+04	5.24E+04 nc
Triphenyltin	668-34-8	-	-	-	
Tripotassium phosphate	7778-53-2	-	-	1.43E+08	1.43E+08 max
Tripropyl Lead	6618-03-7	-	-	-	
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	4.67E+05	-	5.24E+04	5.24E+04 nc
Tris(1-chloro-2-propyl)phosphate	13674-84-5	2.34E+05	-	2.62E+04	2.62E+04 nc
Tris(2,3-dibromopropyl)phosphate	126-72-7	-	-	-	8.81E+01 ca
Tris(2-chloroethyl)phosphate	115-96-8	1.64E+05	-	1.83E+04	9.17E+03 ca**
Tris(2-ethylhexyl)phosphate	78-42-2	2.34E+06	-	2.62E+05	5.73E+04 ca**
Trisbutoxyethyl Phosphate	78-51-3	-	-	-	
Trisodium phosphate	7601-54-9	-	-	1.43E+08	1.43E+08 max

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Trithion	786-19-6	No	No	-		-		-		-		1
Tungsten	7440-33-7	No	No	-		-		-		-		1
Uranium (Soluble Salts)	NA	No	No	-		-		3.00E-03	U	4.00E-05	U	1
Urea	57-13-6	No	No	-		-		-		-		1
Urethane	51-79-6	Yes	No	1.00E+00	U	2.90E-04	U	-		-		1
Vanadium Pentoxide	1314-62-1	No	No	-		8.30E-03	U	9.00E-03	U	7.00E-06	U	0.026
Vanadium Sulfate	36907-42-3	No	No	-		-		-		-		0.026
Vanadium and Compounds	7440-62-2	No	No	-		-		5.04E-03	U	1.00E-04	U	0.026
Vanadyl Sulfate	27774-13-6	No	No	-		-		-		-		1
Vernolate	1929-77-7	No	Yes	-		-		1.00E-03	U	-		1
Vinclozolin	50471-44-8	No	No	-		-		2.50E-02	U	-		1
Vinyl Acetate	108-05-4	No	Yes	-		-		1.00E+00	U	2.00E-01	U	1
Vinyl Bromide	593-60-2	No	Yes	-		3.20E-05	U	-		3.00E-03	U	1
Vinyl Chloride	75-01-4	Yes	Yes	7.20E-01	U	4.40E-06	U	3.00E-03	U	1.00E-01	U	1
Warfarin	81-81-2	No	No	-		-		3.00E-04	U	-		1
Xylene, P-	106-42-3	No	Yes	-		-		2.00E-01	U	1.00E-01	U	1
Xylene, m-	108-38-3	No	Yes	-		-		2.00E-01	U	1.00E-01	U	1
Xylene, o-	95-47-6	No	Yes	-		-		2.00E-01	U	1.00E-01	U	1
Xylenes	1330-20-7	No	Yes	-		-		2.00E-01	U	1.00E-01	U	1
Ytterbium	7440-64-4	No	No	-		-		-		-		1
Yttrium	7440-65-5	No	No	-		-		-		-		1
Zinc Cyanide	557-21-1	No	No	-		-		5.00E-02	U	-		1
Zinc Phosphide	1314-84-7	No	No	-		-		3.00E-04	U	-		1
Zinc and Compounds	7440-66-6	No	No	-		-		3.00E-01	U	-		1
Zineb	12122-67-7	No	No	-		-		5.00E-02	U	-		1
Zirconium	7440-67-7	No	No	-		-		8.00E-05	U	-		1

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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL HQ=1 (mg/kg)
Trithion	786-19-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Tungsten	7440-33-7	-	1	-	-	3.23E+09	-	-	-	-	-
Uranium (Soluble Salts)	NA	-	1	-	-	3.23E+09	-	-	-	-	8.85E+03
Urea	57-13-6	0.1	1	-	-	3.23E+09	-	-	-	-	-
Urethane	51-79-6	0.1	1	-	-	3.23E+09	2.06E+02	1.64E+03	2.85E+07	1.83E+02	-
Vanadium Pentoxide	1314-62-1	-	1	-	-	3.23E+09	-	-	9.95E+05	9.95E+05	2.65E+04
Vanadium Sulfate	36907-42-3	-	1	-	-	3.23E+09	-	-	-	-	-
Vanadium and Compounds	7440-62-2	-	1	-	-	3.23E+09	-	-	-	-	1.49E+04
Vanadyl Sulfate	27774-13-6	-	1	-	-	3.23E+09	-	-	-	-	-
Vernolate	1929-77-7	-	1	1.70E+05	-	3.23E+09	-	-	-	-	2.95E+03
Vinclozolin	50471-44-8	0.1	1	-	-	3.23E+09	-	-	-	-	7.37E+04
Vinyl Acetate	108-05-4	-	1	6.06E+03	2.75E+03	3.23E+09	-	-	-	-	2.95E+06
Vinyl Bromide	593-60-2	-	1	1.89E+03	3.38E+03	3.23E+09	-	-	1.51E+02	1.51E+02	-
Vinyl Chloride	75-01-4	-	1	1.32E+03	3.92E+03	3.23E+09	2.87E+02	-	7.65E+02	2.09E+02	8.85E+03
Warfarin	81-81-2	0.1	1	-	-	3.23E+09	-	-	-	-	8.85E+02
Xylene, P-	106-42-3	-	1	7.70E+03	3.89E+02	3.23E+09	-	-	-	-	5.90E+05
Xylene, m-	108-38-3	-	1	7.54E+03	3.87E+02	3.23E+09	-	-	-	-	5.90E+05
Xylene, o-	95-47-6	-	1	8.90E+03	4.34E+02	3.23E+09	-	-	-	-	5.90E+05
Xylenes	1330-20-7	-	1	8.93E+03	2.58E+02	3.23E+09	-	-	-	-	5.90E+05
Ytterbium	7440-64-4	-	1	-	-	3.23E+09	-	-	-	-	-
Yttrium	7440-65-5	-	1	-	-	3.23E+09	-	-	-	-	-
Zinc Cyanide	557-21-1	-	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Zinc Phosphide	1314-84-7	-	1	-	-	3.23E+09	-	-	-	-	8.85E+02
Zinc and Compounds	7440-66-6	-	1	-	-	3.23E+09	-	-	-	-	8.85E+05
Zineb	12122-67-7	0.1	1	-	-	3.23E+09	-	-	-	-	1.47E+05
Zirconium	7440-67-7	-	1	-	-	3.23E+09	-	-	-	-	2.36E+02

Site-specific
Outdoor Worker Screening Levels (RSL) for Soil MODIFIED FOR U
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL HQ=1 (mg/kg)	Inhalation SL HQ=1 (mg/kg)	Noncarcinogenic SL HI=1 (mg/kg)	Screening Level (mg/kg)
Trithion	786-19-6	-	-	-	
Tungsten	7440-33-7	-	-	-	
Uranium (Soluble Salts)	NA	-	4.72E+06	8.83E+03	8.83E+03 nc
Urea	57-13-6	-	-	-	
Urethane	51-79-6	-	-	-	1.83E+02 ca
Vanadium Pentoxide	1314-62-1	-	8.26E+05	2.57E+04	2.57E+04 nc
Vanadium Sulfate	36907-42-3	-	-	-	
Vanadium and Compounds	7440-62-2	-	1.18E+07	1.48E+04	1.48E+04 nc
Vanadyl Sulfate	27774-13-6	-	-	-	
Vernolate	1929-77-7	-	-	2.95E+03	2.95E+03 nc
Vinclozolin	50471-44-8	5.84E+05	-	6.55E+04	6.55E+04 nc
Vinyl Acetate	108-05-4	-	4.43E+04	4.36E+04	4.36E+04 sat
Vinyl Bromide	593-60-2	-	2.07E+02	2.07E+02	1.51E+02 ca**
Vinyl Chloride	75-01-4	-	4.81E+03	3.12E+03	2.09E+02 ca*
Warfarin	81-81-2	7.01E+03	-	7.86E+02	7.86E+02 nc
Xylene, P-	106-42-3	-	2.81E+04	2.68E+04	2.68E+04 sat
Xylene, m-	108-38-3	-	2.75E+04	2.63E+04	2.63E+04 sat
Xylene, o-	95-47-6	-	3.25E+04	3.08E+04	3.08E+04 sat
Xylenes	1330-20-7	-	3.26E+04	3.09E+04	3.09E+04 sat
Ytterbium	7440-64-4	-	-	-	
Yttrium	7440-65-5	-	-	-	
Zinc Cyanide	557-21-1	-	-	1.47E+05	1.47E+05 max
Zinc Phosphide	1314-84-7	-	-	8.85E+02	8.85E+02 nc
Zinc and Compounds	7440-66-6	-	-	8.85E+05	8.85E+05 max
Zineb	12122-67-7	1.17E+06	-	1.31E+05	1.31E+05 max
Zirconium	7440-67-7	-	-	2.36E+02	2.36E+02 nc

Site-specific
Recreator Equation Inputs for Soil

Variable	Value
TR (target cancer risk) unitless	0.000001
SA_{recsc} (skin surface area - child) cm^2/day	0
SA_{recsa} (skin surface area - adult) cm^2/day	2924.2
SA_{0-2} (skin surface area - mutagenic) cm^2/day	0
SA_{2-6} (skin surface area - mutagenic) cm^2/day	0
SA_{6-16} (skin surface area - mutagenic) cm^2/day	2160
SA_{16-30} (skin surface area - mutagenic) cm^2/day	3470
SA_{recsa} (skin surface area - adult) cm^2/day	2924.2
THQ (target hazard quotient) unitless	1
LT (lifetime - recreator) year	70
$IFS_{rec-adj}$ (age-adjusted soil ingestion factor) mg/kg	1307.077
$DFS_{rec-adj}$ (age-adjusted soil dermal factor) mg/kg	3735.778
$IFSM_{rec-adj}$ (mutagenic age-adjusted soil ingestion factor) mg/kg	3846.591
$DFSM_{rec-adj}$ (mutagenic age-adjusted soil dermal factor) mg/kg	5678.08
EF_{0-2} (exposure frequency) day/year	0
EF_{2-6} (exposure frequency) day/year	0
EF_{6-16} (exposure frequency) day/year	50
EF_{16-30} (exposure frequency) day/year	50
EF_{recsc} (exposure frequency - child) day/year	0
EF_{recsa} (exposure frequency - adult) day/year	50
EF_{recsa} (exposure frequency - adult) day/year	50
EF_{recs} (exposure frequency - recreator) day/year	50
IRS_{0-2} (soil intake rate) mg/day	0
IRS_{2-6} (soil intake rate) mg/day	0
IRS_{6-16} (soil intake rate) mg/day	100
IRS_{16-30} (soil intake rate) mg/day	50

IRS_{recsc} (soil intake rate - child) mg/day	0
IRS_{recsa} (soil intake rate - adult) mg/day	70.8
IRS_{recsa} (soil intake rate - adult) mg/day	70.8
ED_{0-2} (exposure duration) year	0
ED_{2-6} (exposure duration) year	0
ED_{6-16} (exposure duration) year	10
ED_{16-30} (exposure duration) year	14
ED_{recsc} (exposure duration - child) year	0
ED_{recsa} (exposure duration - adult) year	24
ED_{recsa} (exposure duration - adult) year	24
ED_{recs} (exposure duration - recreator) year	24
ET_{0-2} (exposure time) hr/day	0
ET_{2-6} (exposure time) hr/day	0
ET_{6-16} (exposure time) hr/day	2
ET_{16-30} (exposure time) hr/day	2
ET_{recsc} (exposure time - child) hr/day	0
ET_{recsa} (exposure time - adult) hr/day	2
ET_{recsa} (exposure time - adult) hr/day	2
ET_{recs} (exposure time - recreator) hr/day	2
BW_{0-2} (body weight) kg	0
BW_{2-6} (body weight) kg	0
BW_{6-16} (body weight) kg	44
BW_{16-30} (body weight) kg	80
BW_{recsc} (body weight - child) kg	0
BW_{recsa} (body weight - adult) kg	65
BW_{recsa} (body weight - adult) kg	65
AF_{0-2} (skin adherence factor) mg/cm^2	0
AF_{2-6} (skin adherence factor) mg/cm^2	0
AF_{6-16} (skin adherence factor) mg/cm^2	0.04
AF_{16-30} (skin adherence factor) mg/cm^2	0.09
AF_{recsc} (skin adherence factor - child) mg/cm^2	0
AF_{recsa} (skin adherence factor - adult) mg/cm^2	0.0692

AF_{recsa} (skin adherence factor - adult) mg/cm^2	0.0692
City (Climate Zone) PEF Selection	Philadelphia, P
A_s (acres) PEF Selection	0.5
Q/C_{wp} (g/m^2-s per kg/m^3) PEF Selection	87.36898
PEF (particulate emission factor) m^3/kg	3232997857
A (PEF Dispersion Constant)	14.0111
B (PEF Dispersion Constant)	19.6154
C (PEF Dispersion Constant)	225.3397
V (fraction of vegetative cover) unitless	0.5
U_m (mean annual wind speed) m/s	4.29
U_t (equivalent threshold value)	11.32
F(x) (function dependant on U_m/U_t) unitless	0.0993
City (Climate Zone) VF Selection	Philadelphia, P
A_s (acres) VF Selection	0.5
Q/C_{wp} (g/m^2-s per kg/m^3) VF Selection	87.36898
foc (fraction organic carbon in soil) g/g	0.006
ρ$_b$ (dry soil bulk density) g/cm^3	1.5
ρ$_s$ (soil particle density) g/cm^3	2.65
θ$_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15
T (exposure interval) s	950000000
A (VF Dispersion Constant)	14.0111
B (VF Dispersion Constant)	19.6154
C (VF Dispersion Constant)	225.3397

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Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
ALAR	1596-84-5	No	No	1.80E-02	U	5.10E-06	U	1.50E-01	U			1
Acenaphthene	83-32-9	No	Yes					6.00E-02	U			1
Acenaphthylene	208-96-8	No	Yes									1
Acephate	30560-19-1	No	No	8.70E-03	U			4.00E-03	U			1
Acetaldehyde	75-07-0	No	Yes			2.20E-06	U			9.00E-03	U	1
Acetochlor	34256-82-1	No	No					2.00E-02	U			1
Acetone	67-64-1	No	Yes					9.00E-01	U	3.09E+01	U	1
Acetone Cyanohydrin	75-86-5	No	Yes							2.00E-03	U	1
Acetonitrile	75-05-8	No	Yes							6.00E-02	U	1
Acetophenone	98-86-2	No	Yes					1.00E-01	U			1
Acetylaminofluorene, 2-	53-96-3	No	No	3.80E+00	U	1.30E-03	U					1
Acifluorofen	50594-66-6	No	No									1
Acridine	260-94-6	No	No									1
Acrolein	107-02-8	No	Yes					5.00E-04	U	2.00E-05	U	1
Acrylamide	79-06-1	Yes	No	5.00E-01	U	1.00E-04	U	2.00E-03	U	6.00E-03	U	1
Acrylic Acid	79-10-7	No	Yes					5.00E-01	U	1.00E-03	U	1
Acrylonitrile	107-13-1	No	Yes	5.40E-01	U	6.80E-05	U	4.00E-02	U	2.00E-03	U	1
Adiponitrile	111-69-3	No	No							6.00E-03	U	1
Alachlor	15972-60-8	No	No	5.60E-02	U			1.00E-02	U			1
Aldicarb	116-06-3	No	No					1.00E-03	U			1
Aldicarb Sulfone	1646-88-4	No	No					1.00E-03	U			1
Aldicarb sulfoxide	1646-87-3	No	No									1
Aldrin	309-00-2	No	Yes	1.70E+01	U	4.90E-03	U	3.00E-05	U			1
Aliphatic Chlorinated Hydrocarbons (each)	NA	No	No									1
Aliphatic Chlorinated Hydrocarbons (total)	NA	No	No									1
Alizarin Red Compounds	NA	No	No									1
Ally	74223-64-6	No	No					2.50E-01	U			1
Allyl Alcohol	107-18-6	No	Yes					5.00E-03	U	1.00E-04	U	1
Allyl Chloride	107-05-1	No	Yes	2.10E-02	U	6.00E-06	U			1.00E-03	U	1
Aluminum	7429-90-5	No	No					1.00E+00	U	5.00E-03	U	1
Aluminum Phosphide	20859-73-8	No	No					4.00E-04	U			1
Aluminum metaphosphate	13776-88-0	No	No					4.86E+01	U			1
Amdro	67485-29-4	No	No					3.00E-04	U			1
Ametryn	834-12-8	No	No					9.00E-03	U			1
Amino-4-chlorobenzotrifluoride, 3-	121-50-6	No	Yes									1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
ALAR	1596-84-5	0.1	1			3.23E+09	1.09E+03	3.80E+03	1.62E+08	8.45E+02	
Acenaphthene	83-32-9	0.13	1	1.94E+05		3.23E+09					
Acenaphthylene	208-96-8	0.13	1	2.61E+05		3.23E+09					
Acephate	30560-19-1	0.1	1			3.23E+09	2.25E+03	7.86E+03		1.75E+03	
Acetaldehyde	75-07-0		1	1.20E+04	1.07E+05	3.23E+09			1.39E+03	1.39E+03	
Acetochlor	34256-82-1	0.1	1			3.23E+09					
Acetone	67-64-1		1	1.88E+04	1.14E+05	3.23E+09					
Acetone Cyanohydrin	75-86-5		1	3.28E+04	1.06E+05	3.23E+09					
Acetonitrile	75-05-8		1	1.79E+04	1.28E+05	3.23E+09					
Acetophenone	98-86-2		1	8.24E+04	2.52E+03	3.23E+09					
Acetylaminofluorene, 2-	53-96-3	0.1	1			3.23E+09	5.14E+00	1.80E+01	6.35E+05	4.00E+00	
Acifluorofen	50594-66-6	0.1	1			3.23E+09					
Acridine	260-94-6	0.1	1			3.23E+09					
Acrolein	107-02-8		1	9.52E+03	2.27E+04	3.23E+09					
Acrylamide	79-06-1	0.1	1			3.23E+09	1.33E+01	9.00E+01	4.51E+06	1.16E+01	
Acrylic Acid	79-10-7		1	1.31E+05	1.09E+05	3.23E+09					
Acrylonitrile	107-13-1		1	1.06E+04	1.13E+04	3.23E+09	3.62E+01		3.98E+01	1.90E+01	
Adiponitrile	111-69-3	0.1	1			3.23E+09					
Alachlor	15972-60-8	0.1	1			3.23E+09	3.49E+02	1.22E+03		2.71E+02	
Aldicarb	116-06-3	0.1	1			3.23E+09					
Aldicarb Sulfone	1646-88-4	0.1	1			3.23E+09					
Aldicarb sulfoxide	1646-87-3	0.1	1			3.23E+09					
Aldrin	309-00-2		1	2.37E+06		3.23E+09	1.15E+00		1.23E+02	1.14E+00	
Aliphatic Chlorinated Hydrocarbons (each)	NA	0.1	1			3.23E+09					
Aliphatic Chlorinated Hydrocarbons (total)	NA	0.1	1			3.23E+09					
Alizarin Red Compounds	NA	0.1	1			3.23E+09					
Ally	74223-64-6	0.1	1			3.23E+09					
Allyl Alcohol	107-18-6		1	4.71E+04	1.11E+05	3.23E+09					
Allyl Chloride	107-05-1		1	2.18E+03	1.42E+03	3.23E+09	9.31E+02		9.30E+01	8.45E+01	
Aluminum	7429-90-5		1			3.23E+09					
Aluminum Phosphide	20859-73-8		1			3.23E+09					
Aluminum metaphosphate	13776-88-0		1			3.23E+09					
Amdro	67485-29-4	0.1	1			3.23E+09					
Ametryn	834-12-8	0.1	1			3.23E+09					
Amino-4-chlorobenzotrifluoride, 3-	121-50-6		1	3.69E+05		3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
ALAR	1596-84-5				1.01E+06	3.52E+06		7.82E+05	8.45E+02 ca
Acenaphthene	83-32-9				4.02E+05	1.08E+06		2.93E+05	2.93E+05 max
Acenaphthylene	208-96-8								
Acephate	30560-19-1				2.68E+04	9.38E+04		2.08E+04	1.75E+03 ca*
Acetaldehyde	75-07-0						9.46E+03	9.46E+03	1.39E+03 ca**
Acetochlor	34256-82-1				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Acetone	67-64-1				6.03E+06		5.10E+07	5.39E+06	5.39E+06 sat
Acetone Cyanohydrin	75-86-5						5.75E+03	5.75E+03	5.75E+03 nc
Acetonitrile	75-05-8						9.40E+04	9.40E+04	9.40E+04 nc
Acetophenone	98-86-2				6.70E+05			6.70E+05	6.70E+05 sat
Acetylaminofluorene, 2-	53-96-3								4.00E+00 ca
Acifluorofen	50594-66-6								
Acridine	260-94-6								
Acrolein	107-02-8				3.35E+03		1.67E+01	1.66E+01	1.66E+01 nc
Acrylamide	79-06-1				1.34E+04	4.69E+04	1.70E+09	1.04E+04	1.16E+01 ca
Acrylic Acid	79-10-7				3.35E+06		1.15E+04	1.15E+04	1.15E+04 nc
Acrylonitrile	107-13-1				2.68E+05		1.85E+03	1.84E+03	1.90E+01 ca*
Adiponitrile	111-69-3						1.70E+09	1.70E+09	1.70E+09 max
Alachlor	15972-60-8				6.70E+04	2.34E+05		5.21E+04	2.71E+02 ca
Aldicarb	116-06-3				6.70E+03	2.34E+04		5.21E+03	5.21E+03 nc
Aldicarb Sulfone	1646-88-4				6.70E+03	2.34E+04		5.21E+03	5.21E+03 nc
Aldicarb sulfoxide	1646-87-3								
Aldrin	309-00-2				2.01E+02			2.01E+02	1.14E+00 ca
Aliphatic Chlorinated Hydrocarbons (each)	NA								
Aliphatic Chlorinated Hydrocarbons (total)	NA								
Alizarin Red Compounds	NA								
Ally	74223-64-6				1.68E+06	5.86E+06		1.30E+06	1.30E+06 max
Allyl Alcohol	107-18-6				3.35E+04		4.12E+02	4.07E+02	4.07E+02 nc
Allyl Chloride	107-05-1						1.91E+02	1.91E+02	8.45E+01 ca**
Aluminum	7429-90-5				6.70E+06		1.42E+09	6.67E+06	6.67E+06 max
Aluminum Phosphide	20859-73-8				2.68E+03			2.68E+03	2.68E+03 nc
Aluminum metaphosphate	13776-88-0				3.26E+08			3.26E+08	3.26E+08 max
Amdro	67485-29-4				2.01E+03	7.03E+03		1.56E+03	1.56E+03 nc
Ametryn	834-12-8				6.03E+04	2.11E+05		4.69E+04	4.69E+04 nc
Amino-4-chlorobenzotrifluoride, 3-	121-50-6								

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Aminoazobenzene, p-	60-09-3	No	No									1
Aminobiphenyl, 4-	92-67-1	No	No	2.10E+01	U	6.00E-03	U					1
Aminophenol, m-	591-27-5	No	No					8.00E-02	U			1
Aminophenol, o-	95-55-6	No	No									1
Aminophenol, p-	123-30-8	No	No					2.00E-02	U			1
Aminopyridine, 4-	504-24-5	No	No									1
Amitraz	33089-61-1	No	No					2.50E-03	U			1
Ammonium Perchlorate	7790-98-9	No	No					7.00E-04	U			1
Ammonium Sulfamate	7773-06-0	No	No					2.00E-01	U			1
Ammonium polyphosphate	68333-79-9	No	No					4.86E+01	U			1
Amyl Alcohol, tert-	75-85-4	No	Yes							3.00E-03	U	1
Aniline	62-53-3	No	No	5.70E-03	U	1.60E-06	U	7.00E-03	U	1.00E-03	U	1
Anilinobenzothiazole	1843-21-6	No	No									1
Anthracene	120-12-7	No	Yes					3.00E-01	U			1
Anthraquinone, 9,10-	84-65-1	No	No	4.00E-02	U			2.00E-03	U			1
Antimony (metallic)	7440-36-0	No	No					4.00E-04	U			0.15
Antimony Pentoxide	1314-60-9	No	No					5.00E-04	U			0.15
Antimony Potassium Tartrate	11071-15-1	No	No					9.00E-04	U			0.15
Antimony Tetroxide	1332-81-6	No	No					4.00E-04	U			0.15
Antimony Trichloride	10025-91-9	No	No									1
Antimony Trioxide	1309-64-4	No	No							2.00E-04	U	0.15
Apollo	74115-24-5	No	No					1.30E-02	U			1
Aramite	140-57-8	No	No	2.50E-02	U	7.10E-06	U	5.00E-02	U			1
Aroclor 1016	12674-11-2	No	Yes	7.00E-02	U	2.00E-05	U	7.00E-05	U			1
Aroclor 1221	11104-28-2	No	Yes	2.00E+00	U	5.71E-04	U					1
Aroclor 1232	11141-16-5	No	Yes	2.00E+00	U	5.71E-04	U					1
Aroclor 1242	53469-21-9	No	Yes	2.00E+00	U	5.71E-04	U					1
Aroclor 1248	12672-29-6	No	Yes	2.00E+00	U	5.71E-04	U					1
Aroclor 1254	11097-69-1	No	Yes	2.00E+00	U	5.71E-04	U	2.00E-05	U			1
Aroclor 1260	11096-82-5	No	Yes	2.00E+00	U	5.71E-04	U					1
Aroclor 5460	11126-42-4	No	Yes					6.00E-04	U			1
Arsenic Salts	NA	No	No									1
Arsenic, Inorganic	7440-38-2	No	No	1.50E+00	U	4.30E-03	U	3.00E-04	U	1.50E-05	U	1
Arsine	7784-42-1	No	No					3.50E-06	U	5.00E-05	U	1
Assure	76578-14-8	No	No					9.00E-03	U			1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Aminoazobenzene, p-	60-09-3	0.1	1			3.23E+09					
Aminobiphenyl, 4-	92-67-1	0.1	1			3.23E+09	9.31E-01	3.26E+00	1.38E+05	7.24E-01	
Aminophenol, m-	591-27-5	0.1	1			3.23E+09					
Aminophenol, o-	95-55-6	0.1	1			3.23E+09					
Aminophenol, p-	123-30-8	0.1	1			3.23E+09					
Aminopyridine, 4-	504-24-5	0.1	1			3.23E+09					
Amitraz	33089-61-1	0.1	1			3.23E+09					
Ammonium Perchlorate	7790-98-9		1			3.23E+09					
Ammonium Sulfamate	7773-06-0		1			3.23E+09					
Ammonium polyphosphate	68333-79-9		1			3.23E+09					
Amyl Alcohol, tert-	75-85-4		1	3.62E+04	1.37E+04	3.23E+09					
Aniline	62-53-3	0.1	1			3.23E+09	3.43E+03	1.20E+04	5.16E+08	2.67E+03	
Anilinobenzothiazole	1843-21-6	0.1	1			3.23E+09					
Anthracene	120-12-7	0.13	1	7.23E+05		3.23E+09					
Anthraquinone, 9,10-	84-65-1	0.1	1			3.23E+09	4.89E+02	1.71E+03		3.80E+02	
Antimony (metallic)	7440-36-0		1			3.23E+09					
Antimony Pentoxide	1314-60-9		1			3.23E+09					
Antimony Potassium Tartrate	11071-15-1		1			3.23E+09					
Antimony Tetroxide	1332-81-6		1			3.23E+09					
Antimony Trichloride	10025-91-9		1			3.23E+09					
Antimony Trioxide	1309-64-4		1			3.23E+09					
Apollo	74115-24-5	0.1	1			3.23E+09					
Aramite	140-57-8	0.1	1			3.23E+09	7.82E+02	2.74E+03	1.16E+08	6.08E+02	
Aroclor 1016	12674-11-2	0.14	1	8.07E+05		3.23E+09	2.79E+02	6.98E+02	1.03E+04	1.96E+02	
Aroclor 1221	11104-28-2	0.14	1	1.57E+05		3.23E+09	9.77E+00	2.44E+01	7.00E+01	6.35E+00	
Aroclor 1232	11141-16-5	0.14	1	1.54E+05		3.23E+09	9.77E+00	2.44E+01	6.91E+01	6.34E+00	
Aroclor 1242	53469-21-9	0.14	1	1.09E+06		3.23E+09	9.77E+00	2.44E+01	4.89E+02	6.88E+00	
Aroclor 1248	12672-29-6	0.14	1	7.08E+05		3.23E+09	9.77E+00	2.44E+01	3.17E+02	6.83E+00	
Aroclor 1254	11097-69-1	0.14	1	1.16E+06		3.23E+09	9.77E+00	2.44E+01	5.21E+02	6.89E+00	
Aroclor 1260	11096-82-5	0.14	1	1.82E+06		3.23E+09	9.77E+00	2.44E+01	8.13E+02	6.92E+00	
Aroclor 5460	11126-42-4	0.14	1	9.89E+05		3.23E+09					
Arsenic Salts	NA	0.03	0.6			3.23E+09					
Arsenic, Inorganic	7440-38-2	0.03	0.6			3.23E+09	2.17E+01	1.52E+02	1.92E+05	1.90E+01	
Arsine	7784-42-1		1			3.23E+09					
Assure	76578-14-8	0.1	1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Aminoazobenzene, p-	60-09-3								
Aminobiphenyl, 4-	92-67-1								7.24E-01 ca
Aminophenol, m-	591-27-5				5.36E+05	1.88E+06		4.17E+05	4.17E+05 max
Aminophenol, o-	95-55-6								
Aminophenol, p-	123-30-8				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Aminopyridine, 4-	504-24-5								
Amitraz	33089-61-1				1.68E+04	5.86E+04		1.30E+04	1.30E+04 nc
Ammonium Perchlorate	7790-98-9				4.69E+03			4.69E+03	4.69E+03 nc
Ammonium Sulfamate	7773-06-0				1.34E+06			1.34E+06	1.34E+06 max
Ammonium polyphosphate	68333-79-9				3.26E+08			3.26E+08	3.26E+08 max
Amyl Alcohol, tert-	75-85-4						9.50E+03	9.50E+03	9.50E+03 nc
Aniline	62-53-3				4.69E+04	1.64E+05	2.83E+08	3.65E+04	2.67E+03 ca*
Anilinobenzothiazole	1843-21-6								
Anthracene	120-12-7				2.01E+06	5.41E+06		1.47E+06	1.47E+06 max
Anthraquinone, 9,10-	84-65-1				1.34E+04	4.69E+04		1.04E+04	3.80E+02 ca*
Antimony (metallic)	7440-36-0				2.68E+03			2.68E+03	2.68E+03 nc
Antimony Pentoxide	1314-60-9				3.35E+03			3.35E+03	3.35E+03 nc
Antimony Potassium Tartrate	11071-15-1				6.03E+03			6.03E+03	6.03E+03 nc
Antimony Tetroxide	1332-81-6				2.68E+03			2.68E+03	2.68E+03 nc
Antimony Trichloride	10025-91-9								
Antimony Trioxide	1309-64-4						5.66E+07	5.66E+07	5.66E+07 max
Apollo	74115-24-5				8.71E+04	3.05E+05		6.78E+04	6.78E+04 nc
Aramite	140-57-8				3.35E+05	1.17E+06		2.61E+05	6.08E+02 ca
Aroclor 1016	12674-11-2				4.69E+02	1.17E+03		3.35E+02	1.96E+02 ca**
Aroclor 1221	11104-28-2								6.35E+00 ca
Aroclor 1232	11141-16-5								6.34E+00 ca
Aroclor 1242	53469-21-9								6.88E+00 ca
Aroclor 1248	12672-29-6								6.83E+00 ca
Aroclor 1254	11097-69-1				1.34E+02	3.35E+02		9.57E+01	6.89E+00 ca*
Aroclor 1260	11096-82-5								6.92E+00 ca
Aroclor 5460	11126-42-4				4.02E+03	1.00E+04		2.87E+03	2.87E+03 nc
Arsenic Salts	NA								
Arsenic, Inorganic	7440-38-2				3.35E+03	2.34E+04	4.25E+06	2.93E+03	1.90E+01 ca
Arsine	7784-42-1				2.35E+01		1.42E+07	2.35E+01	2.35E+01 nc
Assure	76578-14-8				6.03E+04	2.11E+05		4.69E+04	4.69E+04 nc

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Asulam	3337-71-1	No	No					5.00E-02	U			1
Atrazine	1912-24-9	No	No	2.30E-01	U			3.50E-02	U			1
Auramine	492-80-8	No	No	8.80E-01	U	2.50E-04	U					1
Avermectin B1	65195-55-3	No	No					4.00E-04	U			1
Azobenzene	103-33-3	No	Yes	1.10E-01	U	3.10E-05	U					1
Azodicarbonamide	123-77-3	No	No					1.00E+00	U	7.00E-06	U	1
Barium	7440-39-3	No	No					2.00E-01	U	5.00E-04	U	0.07
Barium Chromate	10294-40-3	Yes	No	5.00E-01	U	1.50E-01	U	2.00E-02	U	2.00E-04	U	0.025
Barium Cyanide	542-62-1	No	No									0.07
Baygon	114-26-1	No	No					4.00E-03	U			1
Bayleton	43121-43-3	No	No					3.00E-02	U			1
Baythroid	68359-37-5	No	No					2.50E-02	U			1
Benefin	1861-40-1	No	Yes					3.00E-01	U			1
Benomyl	17804-35-2	No	No					5.00E-02	U			1
Bentazon	25057-89-0	No	No					3.00E-02	U			1
Benz[a]anthracene	56-55-3	Yes	Yes	7.30E-01	U	1.10E-04	U					1
Benzaldehyde	100-52-7	No	Yes					1.00E-01	U			1
Benzene	71-43-2	No	Yes	5.50E-02	U	7.80E-06	U	4.00E-03	U	3.00E-02	U	1
Benzene, Ethyldimethyl	29224-55-3	No	Yes									1
Benzene, Ethylmethyl	25550-14-5	No	Yes									1
Benzene, Methylpropenyl	768-00-3	No	Yes									1
Benzene, Methylpropyl	28729-54-6	No	No									1
Benzene, Trimethyl	25551-13-7	No	Yes									1
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	No	No	1.00E-01	U			3.00E-04	U			1
Benzenethiol	108-98-5	No	Yes					1.00E-03	U			1
Benzidine	92-87-5	Yes	No	2.30E+02	U	6.70E-02	U	3.00E-03	U			1
Benzo(j)fluoranthene	205-82-3	No	No	1.20E+00	U	1.10E-04	U					1
Benzo[a]pyrene	50-32-8	Yes	No	7.30E+00	U	1.10E-03	U					1
Benzo[b]fluoranthene	205-99-2	Yes	No	7.30E-01	U	1.10E-04	U					1
Benzo[g,h,i]perylene	191-24-2	No	No									1
Benzo[k]fluoranthene	207-08-9	Yes	No	7.30E-02	U	1.10E-04	U					1
Benzofluoranthenes, total	NA	No	No									1
Benzofluorene, 2,3-	243-17-4	No	No									1
Benzoic Acid	65-85-0	No	No					4.00E+00	U			1
Benzoic acid, 3,5-dichloro-	51-36-5	No	No									1

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Asulam	3337-71-1	0.1	1			3.23E+09					
Atrazine	1912-24-9	0.1	1			3.23E+09	8.50E+01	2.97E+02		6.61E+01	
Auramine	492-80-8	0.1	1			3.23E+09	2.22E+01	7.77E+01	3.30E+06	1.73E+01	
Avermectin B1	65195-55-3	0.1	1			3.23E+09					
Azobenzene	103-33-3		1	7.21E+05		3.23E+09	1.78E+02		5.94E+03	1.73E+02	
Azodicarbonamide	123-77-3	0.1	1			3.23E+09					
Barium	7440-39-3		1			3.23E+09					
Barium Chromate	10294-40-3		1			3.23E+09	1.33E+01		3.00E+03	1.32E+01	
Barium Cyanide	542-62-1		1			3.23E+09					
Baygon	114-26-1	0.1	1			3.23E+09					
Bayleton	43121-43-3	0.1	1			3.23E+09					
Baythroid	68359-37-5	0.1	1			3.23E+09					
Benefin	1861-40-1		1	4.23E+05		3.23E+09					
Benomyl	17804-35-2	0.1	1			3.23E+09					
Bentazon	25057-89-0	0.1	1			3.23E+09					
Benz[a]anthracene	56-55-3	0.13	1	6.09E+06		3.23E+09	9.10E+00	4.74E+01	7.70E+03	7.63E+00	
Benzaldehyde	100-52-7		1	3.10E+04	1.16E+03	3.23E+09					
Benzene	71-43-2		1	4.88E+03	1.82E+03	3.23E+09	3.55E+02		1.60E+02	1.10E+02	
Benzene, Ethyldimethyl	29224-55-3		1	1.26E+04	1.31E+02	3.23E+09					
Benzene, Ethylmethyl	25550-14-5		1	1.30E+04	3.30E+02	3.23E+09					
Benzene, Methylpropenyl	768-00-3		1	1.58E+04	4.90E+02	3.23E+09					
Benzene, Methylpropyl	28729-54-6	0.1	1			3.23E+09					
Benzene, Trimethyl	25551-13-7		1	9.03E+03	1.82E+02	3.23E+09					
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1	0.1	1			3.23E+09	1.95E+02	6.84E+02		1.52E+02	
Benzenethiol	108-98-5		1	2.67E+04	1.26E+03	3.23E+09					
Benzidine	92-87-5	0.1	1			3.23E+09	2.89E-02	1.96E-01	6.72E+03	2.52E-02	
Benzo(j)fluoranthene	205-82-3	0.13	1			3.23E+09	1.63E+01	4.38E+01	7.51E+06	1.19E+01	
Benzo[a]pyrene	50-32-8	0.13	1			3.23E+09	9.10E-01	4.74E+00	4.10E+05	7.63E-01	
Benzo[b]fluoranthene	205-99-2	0.13	1			3.23E+09	9.10E+00	4.74E+01	4.10E+06	7.63E+00	
Benzo[g,h,i]perylene	191-24-2	0.13	1			3.23E+09					
Benzo[k]fluoranthene	207-08-9	0.13	1			3.23E+09	9.10E+01	4.74E+02	4.10E+06	7.63E+01	
Benzofluoranthenes, total	NA	0.1	1			3.23E+09					
Benzofluorene, 2,3-	243-17-4	0.1	1			3.23E+09					
Benzoic Acid	65-85-0	0.1	1			3.23E+09					
Benzoic acid, 3,5-dichloro-	51-36-5	0.1	1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Asulam	3337-71-1				3.35E+05	1.17E+06		2.61E+05	2.61E+05 max
Atrazine	1912-24-9				2.35E+05	8.21E+05		1.82E+05	6.61E+01 ca
Auramine	492-80-8								1.73E+01 ca
Avermectin B1	65195-55-3				2.68E+03	9.38E+03		2.08E+03	2.08E+03 nc
Azobenzene	103-33-3								1.73E+02 ca
Azodicarbonamide	123-77-3				6.70E+06	2.34E+07	1.98E+06	1.44E+06	1.44E+06 max
Barium	7440-39-3				1.34E+06		1.42E+08	1.33E+06	1.33E+06 max
Barium Chromate	10294-40-3				1.34E+05		5.66E+07	1.34E+05	1.32E+01 ca
Barium Cyanide	542-62-1								
Baygon	114-26-1				2.68E+04	9.38E+04		2.08E+04	2.08E+04 nc
Bayleton	43121-43-3				2.01E+05	7.03E+05		1.56E+05	1.56E+05 max
Baythroid	68359-37-5				1.68E+05	5.86E+05		1.30E+05	1.30E+05 max
Benefin	1861-40-1				2.01E+06			2.01E+06	2.01E+06 max
Benomyl	17804-35-2				3.35E+05	1.17E+06		2.61E+05	2.61E+05 max
Bentazon	25057-89-0				2.01E+05	7.03E+05		1.56E+05	1.56E+05 max
Benz[a]anthracene	56-55-3								7.63E+00 ca
Benzaldehyde	100-52-7				6.70E+05			6.70E+05	6.70E+05 sat
Benzene	71-43-2				2.68E+04		1.28E+04	8.67E+03	1.10E+02 ca*
Benzene, Ethyldimethyl	29224-55-3								
Benzene, Ethylmethyl	25550-14-5								
Benzene, Methylpropenyl	768-00-3								
Benzene, Methylpropyl	28729-54-6								
Benzene, Trimethyl	25551-13-7								
Benzenediamine-2-methyl sulfate, 1,4-	6369-59-1				2.01E+03	7.03E+03		1.56E+03	1.52E+02 ca*
Benzenethiol	108-98-5				6.70E+03			6.70E+03	6.70E+03 sat
Benzidine	92-87-5				2.01E+04	7.03E+04		1.56E+04	2.52E-02 ca
Benzo(j)fluoranthene	205-82-3								1.19E+01 ca
Benzo[a]pyrene	50-32-8								7.63E-01 ca
Benzo[b]fluoranthene	205-99-2								7.63E+00 ca
Benzo[g,h,i]perylene	191-24-2								
Benzo[k]fluoranthene	207-08-9								7.63E+01 ca
Benzofluoranthenes, total	NA								
Benzofluorene, 2,3-	243-17-4								
Benzoic Acid	65-85-0				2.68E+07	9.38E+07		2.08E+07	2.08E+07 max
Benzoic acid, 3,5-dichloro-	51-36-5								

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	No	No									1
Benzothiazole	95-16-9	No	No									1
Benzotrichloride	98-07-7	No	Yes	1.30E+01	U							1
Benzyl Alcohol	100-51-6	No	No					1.00E-01	U			1
Benzyl Chloride	100-44-7	No	Yes	1.70E-01	U	4.90E-05	U	2.00E-03	U	1.00E-03	U	1
Beryllium and compounds	7440-41-7	No	No			2.40E-03	U	2.00E-03	U	2.00E-05	U	0.007
Bidrin	141-66-2	No	No					1.00E-04	U			1
Bifenox	42576-02-3	No	No					9.00E-03	U			1
Biphenthrin	82657-04-3	No	No					1.50E-02	U			1
Biphenyl, 1,1'-	92-52-4	No	Yes	8.00E-03	U			5.00E-01	U	4.00E-04	U	1
Bis(2-chloro-1-methylethyl) ether	108-60-1	No	Yes	7.00E-02	U	1.00E-05	U	4.00E-02	U			1
Bis(2-chloroethoxy)methane	111-91-1	No	No					3.00E-03	U			1
Bis(2-chloroethyl)ether	111-44-4	No	Yes	1.10E+00	U	3.30E-04	U					1
Bis(2-ethylhexyl)phthalate	117-81-7	No	No	1.40E-02	U	2.40E-06	U	2.00E-02	U			1
Bis(Octanoyloxy)Di-N-Butyl Stannane	4731-77-5	No	Yes									1
Bis(chloromethyl)ether	542-88-1	No	Yes	2.20E+02	U	6.20E-02	U					1
Bis(oleoyloxy)dibutyl tin	13323-62-1	No	Yes									1
Bisphenol A	80-05-7	No	No					5.00E-02	U			1
Boron And Borates Only	7440-42-8	No	No					2.00E-01	U	2.00E-02	U	1
Boron Trichloride	10294-34-5	No	Yes					2.00E+00	U	2.00E-02	U	1
Boron Trifluoride	7637-07-2	No	Yes					4.00E-02	U	1.30E-02	U	1
Bromacil	314-40-9	No	No									1
Bromate	15541-45-4	No	No	7.00E-01	U			4.00E-03	U			1
Bromine	7726-95-6	No	Yes									1
Bromo-2-chloroethane, 1-	107-04-0	No	Yes	2.00E+00	U	6.00E-04	U					1
Bromo-3-fluorobenzene, 1-	1073-06-9	No	Yes									1
Bromo-4-Ethylbenzene, 1-	1585-07-5	No	Yes									1
Bromoacetic acid	79-08-3	No	No									1
Bromoacetophenone, 3-	2142-63-4	No	No									1
Bromobenzene	108-86-1	No	Yes					8.00E-03	U	6.00E-02	U	1
Bromochloromethane	74-97-5	No	Yes							4.00E-02	U	1
Bromodichloromethane	75-27-4	No	Yes	6.20E-02	U	3.70E-05	U	2.00E-02	U			1
Bromodiphenyl Ether, p-	101-55-3	No	Yes									1
Bromofluorobenzene, p-	460-00-4	No	Yes									1
Bromoform	75-25-2	No	Yes	7.90E-03	U	1.10E-06	U	2.00E-02	U			1

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	0.1	1			3.23E+09					
Benzothiazole	95-16-9	0.1	1			3.23E+09					
Benzotrichloride	98-07-7		1	9.33E+04	3.23E+02	3.23E+09	1.50E+00			1.50E+00	
Benzyl Alcohol	100-51-6	0.1	1			3.23E+09					
Benzyl Chloride	100-44-7		1	3.52E+04	1.46E+03	3.23E+09	1.15E+02		1.83E+02	7.07E+01	
Beryllium and compounds	7440-41-7		1			3.23E+09			3.44E+05	3.44E+05	
Bidrin	141-66-2	0.1	1			3.23E+09					
Bifenox	42576-02-3	0.1	1			3.23E+09					
Biphenthrin	82657-04-3	0.1	1			3.23E+09					
Biphenyl, 1,1'-	92-52-4		1	1.57E+05		3.23E+09	2.44E+03			2.44E+03	
Bis(2-chloro-1-methylethyl) ether	108-60-1		1	4.83E+04	1.02E+03	3.23E+09	2.79E+02		1.23E+03	2.28E+02	
Bis(2-chloroethoxy)methane	111-91-1	0.1	1			3.23E+09					
Bis(2-chloroethyl)ether	111-44-4		1	5.87E+04	5.05E+03	3.23E+09	1.78E+01		4.54E+01	1.28E+01	
Bis(2-ethylhexyl)phthalate	117-81-7	0.1	1			3.23E+09	1.40E+03	4.89E+03	3.44E+08	1.09E+03	
Bis(Octanoyloxy)Di-N-Butyl Stannane	4731-77-5		1	8.48E+04		3.23E+09					
Bis(chloromethyl)ether	542-88-1		1	2.59E+03	4.22E+03	3.23E+09	8.89E-02		1.07E-02	9.53E-03	
Bis(oleoyloxy)dibutyl tin	13323-62-1		1	2.64E+06		3.23E+09					
Bisphenol A	80-05-7	0.1	1			3.23E+09					
Boron And Borates Only	7440-42-8		1			3.23E+09					
Boron Trichloride	10294-34-5		1			3.23E+09					
Boron Trifluoride	7637-07-2		1			3.23E+09					
Bromacil	314-40-9	0.1	1			3.23E+09					
Bromate	15541-45-4		1			3.23E+09	2.79E+01			2.79E+01	
Bromine	7726-95-6		1			3.23E+09					
Bromo-2-chloroethane, 1-	107-04-0		1	8.17E+03	2.38E+03	3.23E+09	9.77E+00		3.48E+00	2.57E+00	
Bromo-3-fluorobenzene, 1-	1073-06-9		1	9.79E+03	9.07E+02	3.23E+09					
Bromo-4-Ethylbenzene, 1-	1585-07-5		1	1.96E+04	2.06E+02	3.23E+09					
Bromoacetic acid	79-08-3	0.1	1			3.23E+09					
Bromoacetophenone, 3-	2142-63-4	0.1	1			3.23E+09					
Bromobenzene	108-86-1		1	1.15E+04	6.79E+02	3.23E+09					
Bromochloromethane	74-97-5		1	4.94E+03	4.03E+03	3.23E+09					
Bromodichloromethane	75-27-4		1	5.47E+03	9.31E+02	3.23E+09	3.15E+02		3.77E+01	3.37E+01	
Bromodiphenyl Ether, p-	101-55-3		1	2.57E+05	1.06E+02	3.23E+09					
Bromofluorobenzene, p-	460-00-4		1	9.95E+03	1.06E+03	3.23E+09					
Bromoform	75-25-2		1	1.34E+04	9.14E+02	3.23E+09	2.47E+03		3.11E+03	1.38E+03	

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3								
Benzothiazole	95-16-9								
Benzotrichloride	98-07-7								1.50E+00 ca
Benzyl Alcohol	100-51-6				6.70E+05	2.34E+06		5.21E+05	5.21E+05 max
Benzyl Chloride	100-44-7				1.34E+04		3.08E+03	2.51E+03	7.07E+01 ca*
Beryllium and compounds	7440-41-7				1.34E+04		5.66E+06	1.34E+04	1.34E+04 nc
Bidrin	141-66-2				6.70E+02	2.34E+03		5.21E+02	5.21E+02 nc
Bifenox	42576-02-3				6.03E+04	2.11E+05		4.69E+04	4.69E+04 nc
Biphenthrin	82657-04-3				1.01E+05	3.52E+05		7.82E+04	7.82E+04 nc
Biphenyl, 1,1'-	92-52-4				3.35E+06		5.50E+03	5.49E+03	2.44E+03 ca**
Bis(2-chloro-1-methylethyl) ether	108-60-1				2.68E+05			2.68E+05	2.28E+02 ca
Bis(2-chloroethoxy)methane	111-91-1				2.01E+04	7.03E+04		1.56E+04	1.56E+04 nc
Bis(2-chloroethyl)ether	111-44-4								1.28E+01 ca
Bis(2-ethylhexyl)phthalate	117-81-7				1.34E+05	4.69E+05		1.04E+05	1.09E+03 ca*
Bis(Octanoyloxy)Di-N-Butyl Stannane	4731-77-5								
Bis(chloromethyl)ether	542-88-1								9.53E-03 ca
Bis(oleoyloxy)dibutyl tin	13323-62-1								
Bisphenol A	80-05-7				3.35E+05	1.17E+06		2.61E+05	2.61E+05 max
Boron And Borates Only	7440-42-8				1.34E+06		5.66E+09	1.34E+06	1.34E+06 max
Boron Trichloride	10294-34-5				1.34E+07		5.66E+09	1.34E+07	1.34E+07 max
Boron Trifluoride	7637-07-2				2.68E+05		3.68E+09	2.68E+05	2.68E+05 max
Bromacil	314-40-9								
Bromate	15541-45-4				2.68E+04			2.68E+04	2.79E+01 ca
Bromine	7726-95-6								
Bromo-2-chloroethane, 1-	107-04-0								2.57E+00 ca
Bromo-3-fluorobenzene, 1-	1073-06-9								
Bromo-4-Ethylbenzene, 1-	1585-07-5								
Bromoacetic acid	79-08-3								
Bromoacetophenone, 3-	2142-63-4								
Bromobenzene	108-86-1				5.36E+04		6.07E+04	2.85E+04	2.85E+04 sat
Bromochloromethane	74-97-5						1.73E+04	1.73E+04	1.73E+04 sat
Bromodichloromethane	75-27-4				1.34E+05			1.34E+05	3.37E+01 ca
Bromodiphenyl Ether, p-	101-55-3								
Bromofluorobenzene, p-	460-00-4								
Bromoform	75-25-2				1.34E+05			1.34E+05	1.38E+03 sat

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Bromomethane	74-83-9	No	Yes					1.40E-03	U	5.00E-03	U	1
Bromophenol, p-	106-41-2	No	No									1
Bromophenyl-phenyl phthalate, 4-	NA	No	No									1
Bromophos	2104-96-3	No	Yes					5.00E-03	U			1
Bromopyridine, 2-	109-04-6	No	No									1
Bromotrichloromethane	75-62-7	No	Yes									1
Bromoxynil	1689-84-5	No	No					2.00E-02	U			1
Bromoxynil Octanoate	1689-99-2	No	Yes					2.00E-02	U			1
Butadiene, 1,3-	106-99-0	No	Yes	3.40E+00	U	3.00E-05	U			2.00E-03	U	1
Butanediol, 2,3-	513-85-9	No	No									1
Butanol	35296-72-1	No	Yes									1
Butanol, N-	71-36-3	No	Yes					1.00E-01	U			1
Butanone-2, 4-chloro-4,4-difluoro	NA	No	No									1
Butyl Alcohol, t-	75-65-0	No	Yes									1
Butyl Benzyl Phthlate	85-68-7	No	No	1.90E-03	U			2.00E-01	U			1
Butyl Formate, tert-	762-75-4	No	Yes									1
Butyl alcohol, sec-	78-92-2	No	Yes					2.00E+00	U	3.00E+01	U	1
Butylacetate	123-86-4	No	Yes									1
Butylate	2008-41-5	No	Yes					5.00E-02	U			1
Butylated hydroxyanisole	25013-16-5	No	No	2.00E-04	U	5.70E-08	U					1
Butylated hydroxytoluene	128-37-0	No	No	3.60E-03	U			3.00E-01	U			1
Butylbenzene, n-	104-51-8	No	Yes					5.00E-02	U			1
Butylbenzene, sec-	135-98-8	No	Yes					1.00E-01	U			1
Butylbenzene, tert-	98-06-6	No	Yes					1.00E-01	U			1
Butylchloride, t-	507-20-0	No	Yes									1
Butylphthalyl Butylglycolate	85-70-1	No	No					1.00E+00	U			1
Butyltin	NA	No	No									1
Cacodylic Acid	75-60-5	No	No					2.00E-02	U			1
Cadmium (Diet)	7440-43-9	No	No			1.80E-03	U	1.00E-03	U	1.00E-05	U	0.025
Calcium	7440-70-2	No	No									1
Calcium Chlorate	10137-74-3	No	No									1
Calcium Chromate	13765-19-0	Yes	No	5.00E-01	U	1.50E-01	U	2.00E-02	U	2.00E-04	U	0.025
Calcium Cyanide	592-01-8	No	No					1.00E-03	U			1
Calcium pyrophosphate	7790-76-3	No	No					4.86E+01	U			1
Caprolactam	105-60-2	No	No					5.00E-01	U	2.20E-03	U	1

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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Bromomethane	74-83-9		1	1.93E+03	3.59E+03	3.23E+09					
Bromophenol, p-	106-41-2	0.1	1			3.23E+09					
Bromophenyl-phenyl phthalate, 4-	NA	0.1	1			3.23E+09					
Bromophos	2104-96-3		1	1.71E+05		3.23E+09					
Bromopyridine, 2-	109-04-6	0.1	1			3.23E+09					
Bromotrichloromethane	75-62-7		1	1.80E+04	4.25E+02	3.23E+09					
Bromoxynil	1689-84-5	0.1	1			3.23E+09					
Bromoxynil Octanoate	1689-99-2		1	6.55E+05		3.23E+09					
Butadiene, 1,3-	106-99-0		1	1.20E+03	6.67E+02	3.23E+09	5.75E+00		1.02E+01	3.68E+00	
Butanediol, 2,3-	513-85-9	0.1	1			3.23E+09					
Butanol	35296-72-1		1	4.02E+04	1.47E+04	3.23E+09					
Butanol, N-	71-36-3		1	4.13E+04	7.64E+03	3.23E+09					
Butanone-2, 4-chloro-4,4-difluoro	NA	0.1	1			3.23E+09					
Butyl Alcohol, t-	75-65-0		1	3.96E+04		3.23E+09					
Butyl Benzyl Phthlate	85-68-7	0.1	1			3.23E+09	1.03E+04	3.60E+04		8.00E+03	
Butyl Formate, tert-	762-75-4		1	6.00E+03	2.99E+03	3.23E+09					
Butyl alcohol, sec-	78-92-2		1	4.03E+04	2.13E+04	3.23E+09					
Butylacetate	123-86-4		1	1.18E+04	1.79E+03	3.23E+09					
Butylate	2008-41-5		1	1.19E+05		3.23E+09					
Butylated hydroxyanisole	25013-16-5	0.1	1			3.23E+09	9.77E+04	3.42E+05	1.45E+10	7.60E+04	
Butylated hydroxytoluene	128-37-0	0.1	1			3.23E+09	5.43E+03	1.90E+04		4.22E+03	
Butylbenzene, n-	104-51-8		1	1.12E+04	1.07E+02	3.23E+09					
Butylbenzene, sec-	135-98-8		1	1.01E+04	1.45E+02	3.23E+09					
Butylbenzene, tert-	98-06-6		1	1.01E+04	1.83E+02	3.23E+09					
Butylchloride, t-	507-20-0		1	2.34E+03	1.33E+03	3.23E+09					
Butylphthalyl Butylglycolate	85-70-1	0.1	1			3.23E+09					
Butyltin	NA	0.1	1			3.23E+09					
Cacodylic Acid	75-60-5	0.1	1			3.23E+09					
Cadmium (Diet)	7440-43-9	0.001	1			3.23E+09			4.59E+05	4.59E+05	
Calcium	7440-70-2		1			3.23E+09					
Calcium Chlorate	10137-74-3		1			3.23E+09					
Calcium Chromate	13765-19-0		1			3.23E+09	1.33E+01		3.00E+03	1.32E+01	
Calcium Cyanide	592-01-8		1			3.23E+09					
Calcium pyrophosphate	7790-76-3		1			3.23E+09					
Caprolactam	105-60-2	0.1	1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Bromomethane	74-83-9				9.38E+03		8.47E+02	7.76E+02	7.76E+02 nc
Bromophenol, p-	106-41-2								
Bromophenyl-phenyl phthalate, 4-	NA								
Bromophos	2104-96-3				3.35E+04			3.35E+04	3.35E+04 nc
Bromopyridine, 2-	109-04-6								
Bromotrichloromethane	75-62-7								
Bromoxynil	1689-84-5				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Bromoxynil Octanoate	1689-99-2				1.34E+05			1.34E+05	1.34E+05 max
Butadiene, 1,3-	106-99-0						2.10E+02	2.10E+02	3.68E+00 ca*
Butanediol, 2,3-	513-85-9								
Butanol	35296-72-1								
Butanol, N-	71-36-3				6.70E+05			6.70E+05	6.70E+05 sat
Butanone-2, 4-chloro-4,4-difluoro	NA								
Butyl Alcohol, t-	75-65-0								
Butyl Benzyl Phthlate	85-68-7				1.34E+06	4.69E+06		1.04E+06	8.00E+03 ca
Butyl Formate, tert-	762-75-4								
Butyl alcohol, sec-	78-92-2				1.34E+07		1.06E+08	1.19E+07	1.19E+07 sat
Butylacetate	123-86-4								
Butylate	2008-41-5				3.35E+05			3.35E+05	3.35E+05 max
Butylated hydroxyanisole	25013-16-5								7.60E+04 ca
Butylated hydroxytoluene	128-37-0				2.01E+06	7.03E+06		1.56E+06	4.22E+03 ca
Butylbenzene, n-	104-51-8				3.35E+05			3.35E+05	3.35E+05 sat
Butylbenzene, sec-	135-98-8				6.70E+05			6.70E+05	6.70E+05 sat
Butylbenzene, tert-	98-06-6				6.70E+05			6.70E+05	6.70E+05 sat
Butylchloride, t-	507-20-0								
Butylphthalyl Butylglycolate	85-70-1				6.70E+06	2.34E+07		5.21E+06	5.21E+06 max
Butyltin	NA								
Cacodylic Acid	75-60-5				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Cadmium (Diet)	7440-43-9				6.70E+03	5.86E+04	2.83E+06	6.00E+03	6.00E+03 nc
Calcium	7440-70-2								
Calcium Chlorate	10137-74-3								
Calcium Chromate	13765-19-0				1.34E+05		5.66E+07	1.34E+05	1.32E+01 ca
Calcium Cyanide	592-01-8				6.70E+03			6.70E+03	6.70E+03 nc
Calcium pyrophosphate	7790-76-3				3.26E+08			3.26E+08	3.26E+08 max
Caprolactam	105-60-2				3.35E+06	1.17E+07	6.23E+08	2.60E+06	2.60E+06 max

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Captafol	2425-06-1	No	No	1.50E-01	U	4.30E-05	U	2.00E-03	U			1
Captan	133-06-2	No	No	2.30E-03	U	6.60E-07	U	1.30E-01	U			1
Carbaryl	63-25-2	No	No					1.00E-01	U			1
Carbazole	86-74-8	No	No									1
Carbofuran	1563-66-2	No	No					5.00E-03	U			1
Carbon Disulfide	75-15-0	No	Yes					1.00E-01	U	7.00E-01	U	1
Carbon Tetrachloride	56-23-5	No	Yes	7.00E-02	U	6.00E-06	U	4.00E-03	U	1.00E-01	U	1
Carbosulfan	55285-14-8	No	No					1.00E-02	U			1
Carboxin	5234-68-4	No	No					1.00E-01	U			1
Catechol	120-80-9	No	No									1
Ceric oxide	1306-38-3	No	No							9.00E-04	U	1
Cerium, Stable	7440-45-1	No	No									1
Chloral	75-87-6	No	Yes									1
Chloral Hydrate	302-17-0	No	Yes					1.00E-01	U			1
Chloramben	133-90-4	No	No					1.50E-02	U			1
Chloramine	127-65-1	No	No									1
Chloranil	118-75-2	No	No	4.03E-01	U							1
Chlorate (ClO3) as	14866-68-3	No	No									1
Chlordane	12789-03-6	No	Yes	3.50E-01	U	1.00E-04	U	5.00E-04	U	7.00E-04	U	1
Chlordane (alpha)	5103-71-9	No	Yes									1
Chlordane (gamma)	5103-74-2	No	Yes									1
Chlordecone (Kepone)	143-50-0	No	No	1.00E+01	U	4.60E-03	U	3.00E-04	U			1
Chlorfenvinphos	470-90-6	No	No					7.00E-04	U			1
Chloride	16887-00-6	No	No									1
Chlorimuron, Ethyl-	90982-32-4	No	No					2.00E-02	U			1
Chlorinated Hydrocarbons (total)	NA	No	No									1
Chlorine	7782-50-5	No	Yes					1.00E-01	U	1.45E-04	U	1
Chlorine Dioxide	10049-04-4	No	Yes					3.00E-02	U	2.00E-04	U	1
Chlorite	14998-27-7	No	No									1
Chlorite (Sodium Salt)	7758-19-2	No	No					3.00E-02	U			1
Chloro-1,1-difluoroethane, 1-	75-68-3	No	Yes							5.00E+01	U	1
Chloro-1,3-butadiene, 2-	126-99-8	No	Yes			3.00E-04	U	2.00E-02	U	2.00E-02	U	1
Chloro-2-methylaniline HCl, 4-	3165-93-3	No	No	4.60E-01	U							1
Chloro-2-methylaniline, 4-	95-69-2	No	No	1.00E-01	U	7.70E-05	U	3.00E-03	U			1
Chloro-2-methylphenol, 4-	1570-64-5	No	No									1

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Captafol	2425-06-1	0.1	1			3.23E+09	1.30E+02	4.56E+02	1.92E+07	1.01E+02	
Captan	133-06-2	0.1	1			3.23E+09	8.50E+03	2.97E+04	1.25E+09	6.61E+03	
Carbaryl	63-25-2	0.1	1			3.23E+09					
Carbazole	86-74-8	0.1	1			3.23E+09					
Carbofuran	1563-66-2	0.1	1			3.23E+09					
Carbon Disulfide	75-15-0		1	1.61E+03	7.38E+02	3.23E+09					
Carbon Tetrachloride	56-23-5		1	2.06E+03	4.58E+02	3.23E+09	2.79E+02		8.78E+01	6.68E+01	
Carbosulfan	55285-14-8	0.1	1			3.23E+09					
Carboxin	5234-68-4	0.1	1			3.23E+09					
Catechol	120-80-9	0.1	1			3.23E+09					
Ceric oxide	1306-38-3		1			3.23E+09					
Cerium, Stable	7440-45-1		1			3.23E+09					
Chloral	75-87-6		1	2.14E+05	3.39E+03	3.23E+09					
Chloral Hydrate	302-17-0		1	2.02E+05		3.23E+09					
Chloramben	133-90-4	0.1	1			3.23E+09					
Chloramine	127-65-1		1			3.23E+09					
Chloranil	118-75-2	0.1	1			3.23E+09	4.85E+01	1.70E+02		3.77E+01	
Chlorate (ClO3) as	14866-68-3		1			3.23E+09					
Chlordane	12789-03-6	0.04	1	1.49E+06		3.23E+09	5.58E+01	4.89E+02	3.81E+03	4.95E+01	
Chlordane (alpha)	5103-71-9		1	2.05E+06		3.23E+09					
Chlordane (gamma)	5103-74-2		1	2.05E+06		3.23E+09					
Chlordecone (Kepone)	143-50-0	0.1	1			3.23E+09	1.95E+00	6.84E+00	1.80E+05	1.52E+00	
Chlorfenvinphos	470-90-6	0.1	1			3.23E+09					
Chloride	16887-00-6		1			3.23E+09					
Chlorimuron, Ethyl-	90982-32-4	0.1	1			3.23E+09					
Chlorinated Hydrocarbons (total)	NA	0.1	1			3.23E+09					
Chlorine	7782-50-5		1	1.69E+03	2.78E+03	3.23E+09					
Chlorine Dioxide	10049-04-4		1			3.23E+09					
Chlorite	14998-27-7		1			3.23E+09					
Chlorite (Sodium Salt)	7758-19-2		1			3.23E+09					
Chloro-1,1-difluoroethane, 1-	75-68-3		1	1.42E+03	1.14E+03	3.23E+09					
Chloro-1,3-butadiene, 2-	126-99-8		1	1.49E+03	7.51E+02	3.23E+09			1.27E+00	1.27E+00	
Chloro-2-methylaniline HCl, 4-	3165-93-3	0.1	1			3.23E+09	4.25E+01	1.49E+02		3.30E+01	
Chloro-2-methylaniline, 4-	95-69-2	0.1	1			3.23E+09	1.95E+02	6.84E+02	1.07E+07	1.52E+02	
Chloro-2-methylphenol, 4-	1570-64-5	0.1	1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Captafol	2425-06-1				1.34E+04	4.69E+04		1.04E+04	1.01E+02 ca
Captan	133-06-2				8.71E+05	3.05E+06		6.78E+05	6.61E+03 ca
Carbaryl	63-25-2				6.70E+05	2.34E+06		5.21E+05	5.21E+05 max
Carbazole	86-74-8								
Carbofuran	1563-66-2				3.35E+04	1.17E+05		2.61E+04	2.61E+04 nc
Carbon Disulfide	75-15-0				6.70E+05		9.89E+04	8.61E+04	8.61E+04 sat
Carbon Tetrachloride	56-23-5				2.68E+04		1.81E+04	1.08E+04	6.68E+01 ca
Carbosulfan	55285-14-8				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Carboxin	5234-68-4				6.70E+05	2.34E+06		5.21E+05	5.21E+05 max
Catechol	120-80-9								
Ceric oxide	1306-38-3						2.55E+08	2.55E+08	2.55E+08 max
Cerium, Stable	7440-45-1								
Chloral	75-87-6								
Chloral Hydrate	302-17-0				6.70E+05			6.70E+05	6.70E+05 max
Chloramben	133-90-4				1.01E+05	3.52E+05		7.82E+04	7.82E+04 nc
Chloramine	127-65-1								
Chloranil	118-75-2								3.77E+01 ca
Chlorate (ClO3) as	14866-68-3								
Chlordane	12789-03-6				3.35E+03	2.93E+04	9.15E+04	2.91E+03	4.95E+01 ca*
Chlordane (alpha)	5103-71-9								
Chlordane (gamma)	5103-74-2								
Chlordecone (Kepone)	143-50-0				2.01E+03	7.03E+03		1.56E+03	1.52E+00 ca
Chlorfenvinphos	470-90-6				4.69E+03	1.64E+04		3.65E+03	3.65E+03 nc
Chloride	16887-00-6								
Chlorimuron, Ethyl-	90982-32-4				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Chlorinated Hydrocarbons (total)	NA								
Chlorine	7782-50-5				6.70E+05		2.14E+01	2.14E+01	2.14E+01 nc
Chlorine Dioxide	10049-04-4				2.01E+05		5.66E+07	2.00E+05	2.00E+05 max
Chlorite	14998-27-7								
Chlorite (Sodium Salt)	7758-19-2				2.01E+05			2.01E+05	2.01E+05 max
Chloro-1,1-difluoroethane, 1-	75-68-3						6.21E+06	6.21E+06	6.21E+06 sat
Chloro-1,3-butadiene, 2-	126-99-8				1.34E+05		2.61E+03	2.56E+03	1.27E+00 ca
Chloro-2-methylaniline HCl, 4-	3165-93-3								3.30E+01 ca
Chloro-2-methylaniline, 4-	95-69-2				2.01E+04	7.03E+04		1.56E+04	1.52E+02 ca
Chloro-2-methylphenol, 4-	1570-64-5								

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Chloro-4-methylphenol	35421-08-0	No	No									1
Chloro-6-fluorophenol, 2-	2040-90-6	No	No									1
Chloroacetaldehyde, 2-	107-20-0	No	Yes	2.70E-01	U							1
Chloroacetamide	79-07-2	No	No									1
Chloroacetic Acid	79-11-8	No	No					2.00E-03	U			1
Chloroacetophenone, 2-	532-27-4	No	No							3.00E-05	U	1
Chloroaniline	27134-26-5	No	No									1
Chloroaniline, 3-	108-42-9	No	No									1
Chloroaniline, p-	106-47-8	No	No	2.00E-01	U			4.00E-03	U			1
Chlorobenzene	108-90-7	No	Yes					2.00E-02	U	5.00E-02	U	1
Chlorobenzene sulfonic acid, p-	98-66-8	No	No									1
Chlorobenzenes (total)	NA	No	No									1
Chlorobenzilate	510-15-6	No	No	1.10E-01	U	3.10E-05	U	2.00E-02	U			1
Chlorobenzoic Acid, p-	74-11-3	No	No					3.00E-02	U			1
Chlorobenzotrifluoride, 3-nitro-4-	121-17-5	No	Yes									1
Chlorobenzotrifluoride, 4-	98-56-6	No	Yes					3.00E-03	U	3.00E-01	U	1
Chlorobiphenyl, p-	2051-62-9	No	Yes									1
Chlorobutane, 1-	109-69-3	No	Yes					4.00E-02	U			1
Chlorobutane, 2-	78-86-4	No	Yes									1
Chlorocyclopentadiene	41851-50-7	No	Yes									1
Chlorodibromoethane	73506-94-2	No	No									1
Chlorodifluoromethane	75-45-6	No	Yes							5.00E+01	U	1
Chloroethanol, 2-	107-07-3	No	Yes					2.00E-02	U			1
Chloroethylvinyl ether, 2-	110-75-8	No	Yes									1
Chloroform	67-66-3	No	Yes	3.10E-02	U	2.30E-05	U	1.00E-02	U	9.77E-02	U	1
Chloromethane	74-87-3	No	Yes							9.00E-02	U	1
Chloromethyl Methyl Ether	107-30-2	No	Yes	2.40E+00	U	6.90E-04	U					1
Chloronaphthalene, Beta-	91-58-7	No	Yes					8.00E-02	U			1
Chloronaphthalene, alpha-	90-13-1	No	Yes									1
Chloronitrobenzene, o-	88-73-3	No	No	3.00E-01	U			3.00E-03	U	1.00E-05	U	1
Chloronitrobenzene, p-	100-00-5	No	No	6.30E-03	U			1.00E-03	U	6.00E-04	U	1
Chlorophenol, 2-	95-57-8	No	Yes					5.00E-03	U			1
Chlorophenol, 3-	108-43-0	No	No									1
Chlorophenol, 4-	106-48-9	No	No									1
Chlorophenols (each)	NA	No	No									1

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Chloro-4-methylphenol	35421-08-0	0.1	1			3.23E+09					
Chloro-6-fluorophenol, 2-	2040-90-6	0.1	1			3.23E+09					
Chloroacetaldehyde, 2-	107-20-0		1	2.56E+04	2.83E+04	3.23E+09	7.24E+01			7.24E+01	
Chloroacetamide	79-07-2	0.1	1			3.23E+09					
Chloroacetic Acid	79-11-8	0.1	1			3.23E+09					
Chloroacetophenone, 2-	532-27-4	0.1	1			3.23E+09					
Chloroaniline	27134-26-5	0.1	1			3.23E+09					
Chloroaniline, 3-	108-42-9	0.1	1			3.23E+09					
Chloroaniline, p-	106-47-8	0.1	1			3.23E+09	9.77E+01	3.42E+02		7.60E+01	
Chlorobenzene	108-90-7		1	8.90E+03	7.61E+02	3.23E+09					
Chlorobenzene sulfonic acid, p-	98-66-8	0.1	1			3.23E+09					
Chlorobenzenes (total)	NA	0.1	1			3.23E+09					
Chlorobenzilate	510-15-6	0.1	1			3.23E+09	1.78E+02	6.22E+02	2.66E+07	1.38E+02	
Chlorobenzoic Acid, p-	74-11-3	0.1	1			3.23E+09					
Chlorobenzotrifluoride, 3-nitro-4-	121-17-5		1	2.14E+05	9.07E+01	3.23E+09					
Chlorobenzotrifluoride, 4-	98-56-6		1	9.33E+03	1.17E+02	3.23E+09					
Chlorobiphenyl, p-	2051-62-9		1	1.78E+05		3.23E+09					
Chlorobutane, 1-	109-69-3		1	2.42E+03	7.29E+02	3.23E+09					
Chlorobutane, 2-	78-86-4		1	2.01E+03	6.51E+02	3.23E+09					
Chlorocyclopentadiene	41851-50-7		1	2.60E+03	9.88E+02	3.23E+09					
Chlorodibromoethane	73506-94-2	0.1	1			3.23E+09					
Chlorodifluoromethane	75-45-6		1	1.30E+03	1.68E+03	3.23E+09					
Chloroethanol, 2-	107-07-3		1	1.08E+05	1.11E+05	3.23E+09					
Chloroethylvinyl ether, 2-	110-75-8		1	2.21E+03	1.64E+03	3.23E+09					
Chloroform	67-66-3		1	3.62E+03	2.54E+03	3.23E+09	6.31E+02		4.03E+01	3.79E+01	
Chloromethane	74-87-3		1	1.62E+03	1.32E+03	3.23E+09					
Chloromethyl Methyl Ether	107-30-2		1	7.35E+03	2.58E+04	3.23E+09	8.14E+00		2.72E+00	2.04E+00	
Chloronaphthalene, Beta-	91-58-7	0.13	1	1.10E+05		3.23E+09					
Chloronaphthalene, alpha-	90-13-1		1	1.05E+05	2.66E+02	3.23E+09					
Chloronitrobenzene, o-	88-73-3	0.1	1			3.23E+09	6.52E+01	2.28E+02		5.07E+01	
Chloronitrobenzene, p-	100-00-5	0.1	1			3.23E+09	3.10E+03	1.09E+04		2.41E+03	
Chlorophenol, 2-	95-57-8		1	1.71E+05	2.19E+04	3.23E+09					
Chlorophenol, 3-	108-43-0	0.1	1			3.23E+09					
Chlorophenol, 4-	106-48-9	0.1	1			3.23E+09					
Chlorophenols (each)	NA	0.1	1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Chloro-4-methylphenol	35421-08-0								
Chloro-6-fluorophenol, 2-	2040-90-6								
Chloroacetaldehyde, 2-	107-20-0								7.24E+01 ca
Chloroacetamide	79-07-2								
Chloroacetic Acid	79-11-8				1.34E+04	4.69E+04		1.04E+04	1.04E+04 nc
Chloroacetophenone, 2-	532-27-4						8.50E+06	8.50E+06	8.50E+06 max
Chloroaniline	27134-26-5								
Chloroaniline, 3-	108-42-9								
Chloroaniline, p-	106-47-8				2.68E+04	9.38E+04		2.08E+04	7.60E+01 ca
Chlorobenzene	108-90-7				1.34E+05		3.90E+04	3.02E+04	3.02E+04 sat
Chlorobenzene sulfonic acid, p-	98-66-8								
Chlorobenzenes (total)	NA								
Chlorobenzilate	510-15-6				1.34E+05	4.69E+05		1.04E+05	1.38E+02 ca
Chlorobenzoic Acid, p-	74-11-3				2.01E+05	7.03E+05		1.56E+05	1.56E+05 max
Chlorobenzotrifluoride, 3-nitro-4-	121-17-5								
Chlorobenzotrifluoride, 4-	98-56-6				2.01E+04		2.45E+05	1.86E+04	1.86E+04 sat
Chlorobiphenyl, p-	2051-62-9								
Chlorobutane, 1-	109-69-3				2.68E+05			2.68E+05	2.68E+05 sat
Chlorobutane, 2-	78-86-4								
Chlorocyclopentadiene	41851-50-7								
Chlorodibromoethane	73506-94-2								
Chlorodifluoromethane	75-45-6						5.68E+06	5.68E+06	5.68E+06 sat
Chloroethanol, 2-	107-07-3				1.34E+05			1.34E+05	1.34E+05 sat
Chloroethylvinyl ether, 2-	110-75-8								
Chloroform	67-66-3				6.70E+04		3.10E+04	2.12E+04	3.79E+01 ca
Chloromethane	74-87-3						1.28E+04	1.28E+04	1.28E+04 sat
Chloromethyl Methyl Ether	107-30-2								2.04E+00 ca
Chloronaphthalene, Beta-	91-58-7				5.36E+05	1.44E+06		3.91E+05	3.91E+05 max
Chloronaphthalene, alpha-	90-13-1								
Chloronitrobenzene, o-	88-73-3				2.01E+04	7.03E+04	2.83E+06	1.56E+04	5.07E+01 ca
Chloronitrobenzene, p-	100-00-5				6.70E+03	2.34E+04	1.70E+08	5.21E+03	2.41E+03 ca**
Chlorophenol, 2-	95-57-8				3.35E+04			3.35E+04	3.35E+04 sat
Chlorophenol, 3-	108-43-0								
Chlorophenol, 4-	106-48-9								
Chlorophenols (each)	NA								

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Chlorophenols (total)	NA	No	No									1
Chlorophenyl Methyl Sulfide, p-	123-09-1	No	Yes									1
Chlorophenyl Methyl Sulfoxide	934-73-6	No	No									1
Chlorophenyl phenyl ether, 4-	7005-72-3	No	Yes									1
Chloropicrin	76-06-2	No	Yes							4.00E-04	U	1
Chloropropane, 2-	75-29-6	No	Yes									1
Chlorothalonil	1897-45-6	No	No	3.10E-03	U	8.90E-07	U	1.50E-02	U			1
Chlorotoluene, o-	95-49-8	No	Yes					2.00E-02	U			1
Chlorotoluene, p-	106-43-4	No	Yes					2.00E-02	U			1
Chlorozotocin	54749-90-5	No	No	2.40E+02	U	6.90E-02	U					1
Chlorpropham	101-21-3	No	No					2.00E-01	U			1
Chlorpyrifos	2921-88-2	No	No					1.00E-03	U			1
Chlorpyrifos Methyl	5598-13-0	No	No					1.00E-02	U			1
Chlorsulfuron	64902-72-3	No	No					5.00E-02	U			1
Chlorthiophos	60238-56-4	No	No					8.00E-04	U			1
Chromium(III), Insoluble Salts	16065-83-1	No	No					1.50E+00	U			0.013
Chromium(VI)	18540-29-9	Yes	No	5.00E-01	U	8.40E-02	U	3.00E-03	U	1.00E-04	U	0.025
Chromium, Total	7440-47-3	No	No									0.013
Chrysene	218-01-9	Yes	No	7.30E-03	U	1.10E-05	U					1
Cobalt	7440-48-4	No	No			9.00E-03	U	3.00E-04	U	6.00E-06	U	1
Complex Mixtures of Aliphatic and Aromatic Hydrocarbons	NA	No	No									1
Copper	7440-50-8	No	No					4.00E-02	U			1
Copper Cyanide	544-92-3	No	No					5.00E-03	U			1
Coronene	191-07-1	No	No									1
Creosote	8001-58-9	No	No									1
Cresol, m-	108-39-4	No	No					5.00E-02	U	6.00E-01	U	1
Cresol, o-	95-48-7	No	No					5.00E-02	U	6.00E-01	U	1
Cresol, p-	106-44-5	No	No					1.00E-01	U	6.00E-01	U	1
Cresol, p-chloro-m-	59-50-7	No	No					1.00E-01	U			1
Cresols	1319-77-3	No	No					1.00E-01	U	6.00E-01	U	1
Crotonaldehyde	4170-30-3	No	Yes									1
Crotonaldehyde, trans-	123-73-9	No	Yes	1.90E+00	U			1.00E-03	U			1
Cumene	98-82-8	No	Yes					1.00E-01	U	4.00E-01	U	1
Cupferron	135-20-6	No	No	2.20E-01	U	6.30E-05	U					1

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Chlorophenols (total)	NA	0.1	1			3.23E+09					
Chlorophenyl Methyl Sulfide, p-	123-09-1		1	6.97E+04	2.73E+02	3.23E+09					
Chlorophenyl Methyl Sulfoxide	934-73-6	0.1	1			3.23E+09					
Chlorophenyl phenyl ether, 4-	7005-72-3		1	1.83E+05		3.23E+09					
Chloropicrin	76-06-2		1	6.46E+03	6.17E+02	3.23E+09					
Chloropropane, 2-	75-29-6		1	1.79E+03	1.32E+03	3.23E+09					
Chlorothalonil	1897-45-6	0.1	1			3.23E+09	6.31E+03	2.21E+04	9.28E+08	4.90E+03	
Chlorotoluene, o-	95-49-8		1	1.12E+04	9.07E+02	3.23E+09					
Chlorotoluene, p-	106-43-4		1	1.01E+04	2.53E+02	3.23E+09					
Chlorozotocin	54749-90-5	0.1	1			3.23E+09	8.14E-02	2.85E-01	1.20E+04	6.33E-02	
Chlorpropham	101-21-3	0.1	1			3.23E+09					
Chlorpyrifos	2921-88-2	0.1	1			3.23E+09					
Chlorpyrifos Methyl	5598-13-0	0.1	1			3.23E+09					
Chlorsulfuron	64902-72-3	0.1	1			3.23E+09					
Chlorthiophos	60238-56-4	0.1	1			3.23E+09					
Chromium(III), Insoluble Salts	16065-83-1		1			3.23E+09					
Chromium(VI)	18540-29-9		1			3.23E+09	1.33E+01		5.36E+03	1.33E+01	
Chromium, Total	7440-47-3		1			3.23E+09					
Chrysene	218-01-9	0.13	1			3.23E+09	9.10E+02	4.74E+03	4.10E+07	7.63E+02	
Cobalt	7440-48-4		1			3.23E+09			9.18E+04	9.18E+04	
Complex Mixtures of Aliphatic and Aromatic Hydrocarbons	NA	0.1	1			3.23E+09					
Copper	7440-50-8		1			3.23E+09					
Copper Cyanide	544-92-3		1			3.23E+09					
Coronene	191-07-1	0.13	1			3.23E+09					
Creosote	8001-58-9	0.1	1			3.23E+09					
Cresol, m-	108-39-4	0.1	1			3.23E+09					
Cresol, o-	95-48-7	0.1	1			3.23E+09					
Cresol, p-	106-44-5	0.1	1			3.23E+09					
Cresol, p-chloro-m-	59-50-7	0.1	1			3.23E+09					
Cresols	1319-77-3	0.1	1			3.23E+09					
Crotonaldehyde	4170-30-3		1	2.61E+04	2.00E+04	3.23E+09					
Crotonaldehyde, trans-	123-73-9		1	2.61E+04	1.66E+04	3.23E+09	1.03E+01			1.03E+01	
Cumene	98-82-8		1	8.56E+03	2.68E+02	3.23E+09					
Cupferron	135-20-6	0.1	1			3.23E+09	8.89E+01	3.11E+02	1.31E+07	6.91E+01	

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Chlorophenols (total)	NA								
Chlorophenyl Methyl Sulfide, p-	123-09-1								
Chlorophenyl Methyl Sulfoxide	934-73-6								
Chlorophenyl phenyl ether, 4-	7005-72-3								
Chloropicrin	76-06-2						2.26E+02	2.26E+02	2.26E+02 nc
Chloropropane, 2-	75-29-6								
Chlorothalonil	1897-45-6				1.01E+05	3.52E+05		7.82E+04	4.90E+03 ca*
Chlorotoluene, o-	95-49-8				1.34E+05			1.34E+05	1.34E+05 sat
Chlorotoluene, p-	106-43-4				1.34E+05			1.34E+05	1.34E+05 sat
Chlorozotocin	54749-90-5								6.33E-02 ca
Chlorpropham	101-21-3				1.34E+06	4.69E+06		1.04E+06	1.04E+06 max
Chlorpyrifos	2921-88-2				6.70E+03	2.34E+04		5.21E+03	5.21E+03 nc
Chlorpyrifos Methyl	5598-13-0				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Chlorsulfuron	64902-72-3				3.35E+05	1.17E+06		2.61E+05	2.61E+05 max
Chlorthiophos	60238-56-4				5.36E+03	1.88E+04		4.17E+03	4.17E+03 nc
Chromium(III), Insoluble Salts	16065-83-1				1.01E+07			1.01E+07	1.01E+07 max
Chromium(VI)	18540-29-9				2.01E+04		2.83E+07	2.01E+04	1.33E+01 ca
Chromium, Total	7440-47-3								
Chrysene	218-01-9								7.63E+02 ca
Cobalt	7440-48-4				2.01E+03		1.70E+06	2.01E+03	2.01E+03 nc
Complex Mixtures of Aliphatic and Aromatic Hydrocarbons	NA								
Copper	7440-50-8				2.68E+05			2.68E+05	2.68E+05 max
Copper Cyanide	544-92-3				3.35E+04			3.35E+04	3.35E+04 nc
Coronene	191-07-1								
Creosote	8001-58-9								
Cresol, m-	108-39-4				3.35E+05	1.17E+06	1.70E+11	2.61E+05	2.61E+05 max
Cresol, o-	95-48-7				3.35E+05	1.17E+06	1.70E+11	2.61E+05	2.61E+05 max
Cresol, p-	106-44-5				6.70E+05	2.34E+06	1.70E+11	5.21E+05	5.21E+05 max
Cresol, p-chloro-m-	59-50-7				6.70E+05	2.34E+06		5.21E+05	5.21E+05 max
Cresols	1319-77-3				6.70E+05	2.34E+06	1.70E+11	5.21E+05	5.21E+05 max
Crotonaldehyde	4170-30-3								
Crotonaldehyde, trans-	123-73-9				6.70E+03			6.70E+03	1.03E+01 ca
Cumene	98-82-8				6.70E+05		3.00E+05	2.07E+05	2.07E+05 sat
Cupferron	135-20-6								6.91E+01 ca

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Cyanazine	21725-46-2	No	No	8.40E-01	U			2.00E-03	U			1
Cyanide (CN-)	57-12-5	No	Yes					6.00E-04	U	8.00E-04	U	1
Cyanide (total complex)	NA	No	No									1
Cyanogen	460-19-5	No	Yes					1.00E-03	U			1
Cyanogen Bromide	506-68-3	No	Yes					9.00E-02	U			1
Cyanogen Chloride	506-77-4	No	Yes					5.00E-02	U			1
Cyclohexane	110-82-7	No	Yes							6.00E+00	U	1
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	No	No	2.30E-02	U							1
Cyclohexanone	108-94-1	No	Yes					5.00E+00	U	7.00E-01	U	1
Cyclohexene	110-83-8	No	Yes					5.00E-03	U	1.00E+00	U	1
Cyclohexylamine	108-91-8	No	Yes					2.00E-01	U			1
Cyclopentadiene	542-92-7	No	Yes									1
Cyhalothrin/karate	68085-85-8	No	No					5.00E-03	U			1
Cypermethrin	52315-07-8	No	No					1.00E-02	U			1
Cyromazine	66215-27-8	No	No					7.50E-03	U			1
DDD	72-54-8	No	No	2.40E-01	U	6.90E-05	U					1
DDD, o,p'-	53-19-0	No	No									1
DDE, p,p'-	72-55-9	No	Yes	3.40E-01	U	9.70E-05	U					1
DDT	50-29-3	No	No	3.40E-01	U	9.70E-05	U	5.00E-04	U			1
DDT, o,p'-	789-02-6	No	No									1
DDT/DDE/DDD (total)	NA	No	No									1
Dacthal	1861-32-1	No	No					1.00E-02	U			1
Dalapon	75-99-0	No	No					3.00E-02	U			1
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'- (BDE-209)	1163-19-5	No	No	7.00E-04	U			7.00E-03	U			1
Decane	124-18-5	No	Yes									1
Decanol, n-	112-30-1	No	Yes									1
Deltamethrin	52918-63-5	No	No									1
Demeton	8065-48-3	No	No					4.00E-05	U			1
Di(2-ethylhexyl)adipate	103-23-1	No	No	1.20E-03	U			6.00E-01	U			1
Di-n-butyltin bis(2-ethylhexanoate)	2781-10-4	No	Yes									1
Di-n-butyltin bis(methyl maleate)	15546-11-9	No	No									1
Di-n-butyltin bis(n-butyl maleate)	15546-16-4	No	No									1
Di-n-butyltin dilaurate	77-58-7	No	Yes									1
Di-n-butyltin distearate	5847-55-2	No	Yes									1
Di-n-hexylphthalate	84-75-3	No	Yes									1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Cyanazine	21725-46-2	0.1	1			3.23E+09	2.33E+01	8.14E+01		1.81E+01	
Cyanide (CN-)	57-12-5		1	6.42E+04	1.00E+07	3.23E+09					
Cyanide (total complex)	NA		1			3.23E+09					
Cyanogen	460-19-5		1			3.23E+09					
Cyanogen Bromide	506-68-3		1			3.23E+09					
Cyanogen Chloride	506-77-4		1			3.23E+09					
Cyclohexane	110-82-7		1	1.44E+03	1.18E+02	3.23E+09					
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3	0.1	1			3.23E+09	8.50E+02	2.97E+03		6.61E+02	
Cyclohexanone	108-94-1		1	5.75E+04	5.11E+03	3.23E+09					
Cyclohexene	110-83-8		1	2.02E+03	2.83E+02	3.23E+09					
Cyclohexylamine	108-91-8		1	1.03E+05	2.93E+05	3.23E+09					
Cyclopentadiene	542-92-7		1	2.05E+03	1.34E+03	3.23E+09					
Cyhalothrin/karate	68085-85-8	0.1	1			3.23E+09					
Cypermethrin	52315-07-8	0.1	1			3.23E+09					
Cyromazine	66215-27-8	0.1	1			3.23E+09					
DDD	72-54-8	0.1	1			3.23E+09	8.14E+01	2.85E+02	1.20E+07	6.33E+01	
DDD, o,p'-	53-19-0	0.1	1			3.23E+09					
DDE, p,p'-	72-55-9		1	2.91E+06		3.23E+09	5.75E+01		7.65E+03	5.71E+01	
DDT	50-29-3	0.03	1			3.23E+09	5.75E+01	6.71E+02	8.52E+06	5.30E+01	
DDT, o,p'-	789-02-6	0.1	1			3.23E+09					
DDT/DDE/DDD (total)	NA	0.1	1			3.23E+09					
Dacthal	1861-32-1	0.1	1			3.23E+09					
Dalapon	75-99-0	0.1	1			3.23E+09					
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'-(BDE-209)	1163-19-5	0.1	1			3.23E+09	2.79E+04	9.77E+04		2.17E+04	
Decane	124-18-5		1	1.56E+03	2.53E+00	3.23E+09					
Decanol, n-	112-30-1		1	8.71E+04	3.19E+01	3.23E+09					
Deltamethrin	52918-63-5	0.1	1			3.23E+09					
Demeton	8065-48-3	0.1	1			3.23E+09					
Di(2-ethylhexyl)adipate	103-23-1	0.1	1			3.23E+09	1.63E+04	5.70E+04		1.27E+04	
Di-n-butyltin bis(2-ethylhexanoate)	2781-10-4		1	1.29E+05		3.23E+09					
Di-n-butyltin bis(methyl maleate)	15546-11-9	0.1	1			3.23E+09					
Di-n-butyltin bis(n-butyl maleate)	15546-16-4	0.1	1			3.23E+09					
Di-n-butyltin dilaurate	77-58-7		1	4.40E+05		3.23E+09					
Di-n-butyltin distearate	5847-55-2		1	2.33E+06		3.23E+09					
Di-n-hexylphthalate	84-75-3		1	1.33E+06	3.85E+00	3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Cyanazine	21725-46-2				1.34E+04	4.69E+04		1.04E+04	1.81E+01 ca
Cyanide (CN-)	57-12-5				4.02E+03		4.50E+03	2.12E+03	2.12E+03 nc
Cyanide (total complex)	NA								
Cyanogen	460-19-5				6.70E+03			6.70E+03	6.70E+03 nc
Cyanogen Bromide	506-68-3				6.03E+05			6.03E+05	6.03E+05 max
Cyanogen Chloride	506-77-4				3.35E+05			3.35E+05	3.35E+05 max
Cyclohexane	110-82-7						7.56E+05	7.56E+05	7.56E+05 sat
Cyclohexane, 1,2,3,4,5-pentabromo-6-chloro-	87-84-3								6.61E+02 ca
Cyclohexanone	108-94-1				3.35E+07		3.53E+06	3.19E+06	3.19E+06 sat
Cyclohexene	110-83-8				3.35E+04		1.77E+05	2.82E+04	2.82E+04 sat
Cyclohexylamine	108-91-8				1.34E+06			1.34E+06	1.34E+06 sat
Cyclopentadiene	542-92-7								
Cyhalothrin/karate	68085-85-8				3.35E+04	1.17E+05		2.61E+04	2.61E+04 nc
Cypermethrin	52315-07-8				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Cyromazine	66215-27-8				5.03E+04	1.76E+05		3.91E+04	3.91E+04 nc
DDD	72-54-8								6.33E+01 ca
DDD, o,p'-	53-19-0								
DDE, p,p'-	72-55-9								5.71E+01 ca
DDT	50-29-3				3.35E+03	3.91E+04		3.09E+03	5.30E+01 ca*
DDT, o,p'-	789-02-6								
DDT/DDE/DDD (total)	NA								
Dacthal	1861-32-1				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Dalapon	75-99-0				2.01E+05	7.03E+05		1.56E+05	1.56E+05 max
Decabromodiphenyl ether, 2,2',3,3',4,4',5,5',6,6'-(BDE-209)	1163-19-5				4.69E+04	1.64E+05		3.65E+04	2.17E+04 ca**
Decane	124-18-5								
Decanol, n-	112-30-1								
Deltamethrin	52918-63-5								
Demeton	8065-48-3				2.68E+02	9.38E+02		2.08E+02	2.08E+02 nc
Di(2-ethylhexyl)adipate	103-23-1				4.02E+06	1.41E+07		3.13E+06	1.27E+04 ca
Di-n-butyltin bis(2-ethylhexanoate)	2781-10-4								
Di-n-butyltin bis(methyl maleate)	15546-11-9								
Di-n-butyltin bis(n-butyl maleate)	15546-16-4								
Di-n-butyltin dilaurate	77-58-7								
Di-n-butyltin distearate	5847-55-2								
Di-n-hexylphthalate	84-75-3								

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Diallate	2303-16-4	No	No	6.10E-02	U							1
Diammonium phosphate	7783-28-0	No	No					4.86E+01	U			1
Diazinon	333-41-5	No	No					7.00E-04	U			1
Dibenz[a,h]anthracene	53-70-3	Yes	No	7.30E+00	U	1.20E-03	U					1
Dibenzo(a,e)pyrene	192-65-4	No	No	1.20E+01	U	1.10E-03	U					1
Dibenzofuran	132-64-9	No	Yes					1.00E-03	U			1
Dibenzothiophene	132-65-0	No	Yes					1.00E-02	U			1
Dibromo-3-chloropropane, 1,2-	96-12-8	Yes	Yes	8.00E-01	U	6.00E-03	U	2.00E-04	U	2.00E-04	U	1
Dibromoacetic acid	631-64-1	No	No									1
Dibromobenzene, 1,3-	108-36-1	No	Yes					4.00E-04	U			1
Dibromobenzene, 1,4-	106-37-6	No	Yes					1.00E-02	U			1
Dibromochloromethane	124-48-1	No	Yes	8.40E-02	U	2.70E-05	U	2.00E-02	U			1
Dibromodichloromethane	594-18-3	No	Yes									1
Dibromodiphenyl Ether, p,p'-	2050-47-7	No	Yes									1
Dibromoethane, 1,2-	106-93-4	No	Yes	2.00E+00	U	6.00E-04	U	9.00E-03	U	9.00E-03	U	1
Dibromomethane (Methylene Bromide)	74-95-3	No	Yes					1.00E-02	U	4.00E-03	U	1
Dibutoxy di-n-butyltin	3349-36-8	No	Yes									1
Dibutyl Phthalate	84-74-2	No	No					1.00E-01	U			1
Dibutylbis((1-oxoisooctyl)oxy)stannane	85702-74-5	No	No									1
Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	95873-60-2	No	Yes									1
Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	85391-79-3	No	No									1
Dibutylbis(palmitoyloxy)stannane	13323-63-2	No	Yes									1
Dibutyltin Compounds	NA	No	No					3.00E-04	U			1
Dibutyltin diacetate	1067-33-0	No	Yes									1
Dibutyltin dichloride	683-18-1	No	Yes									1
Dibutyltin oxide	818-08-6	No	Yes									1
Dicalcium phosphate	7757-93-9	No	No					4.86E+01	U			1
Dicamba	1918-00-9	No	No					3.00E-02	U			1
Dichloro-2-butene, 1,4-	764-41-0	No	Yes			4.20E-03	U					1
Dichloro-2-butene, cis-1,4-	1476-11-5	No	Yes			4.20E-03	U					1
Dichloro-2-butene, trans-1,4-	110-57-6	No	Yes			4.20E-03	U					1
Dichloroacetic Acid	79-43-6	No	No	5.00E-02	U			4.00E-03	U			1
Dichloroaniline, 2,4-	554-00-7	No	No									1
Dichloroaniline, 3,4-	95-76-1	No	Yes									1

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Diallate	2303-16-4	0.1	1			3.23E+09	3.20E+02	1.12E+03		2.49E+02	
Diammonium phosphate	7783-28-0		1			3.23E+09					
Diazinon	333-41-5	0.1	1			3.23E+09					
Dibenz[a,h]anthracene	53-70-3	0.13	1			3.23E+09	9.10E-01	4.74E+00	3.75E+05	7.63E-01	
Dibenzo(a,e)pyrene	192-65-4	0.13	1			3.23E+09	1.63E+00	4.38E+00	7.51E+05	1.19E+00	
Dibenzofuran	132-64-9	0.03	1	2.70E+05		3.23E+09					
Dibenzothiophene	132-65-0		1	7.24E+05		3.23E+09					
Dibromo-3-chloropropane, 1,2-	96-12-8		1	4.42E+04	9.80E+02	3.23E+09	8.30E+00		1.03E+00	9.13E-01	
Dibromoacetic acid	631-64-1	0.1	1			3.23E+09					
Dibromobenzene, 1,3-	108-36-1		1	2.66E+04	1.59E+02	3.23E+09					
Dibromobenzene, 1,4-	106-37-6		1	3.03E+04		3.23E+09					
Dibromochloromethane	124-48-1		1	1.10E+04	8.02E+02	3.23E+09	2.33E+02		1.04E+02	7.18E+01	
Dibromodichloromethane	594-18-3		1	3.20E+04		3.23E+09					
Dibromodiphenyl Ether, p,p'-	2050-47-7		1	5.22E+05		3.23E+09					
Dibromoethane, 1,2-	106-93-4		1	1.19E+04	1.34E+03	3.23E+09	9.77E+00		5.08E+00	3.34E+00	
Dibromomethane (Methylene Bromide)	74-95-3		1	7.79E+03	2.82E+03	3.23E+09					
Dibutoxy di-n-butyltin	3349-36-8		1	8.25E+04		3.23E+09					
Dibutyl Phthalate	84-74-2	0.1	1			3.23E+09					
Dibutylbis((1-oxoisooctyl)oxy)stannane	85702-74-5	0.1	1			3.23E+09					
Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	95873-60-2		1	3.40E+06		3.23E+09					
Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	85391-79-3	0.1	1			3.23E+09					
Dibutylbis(palmitoyloxy)stannane	13323-63-2		1	1.20E+06		3.23E+09					
Dibutyltin Compounds	NA	0.1	1			3.23E+09					
Dibutyltin diacetate	1067-33-0		1	1.75E+04	1.86E+00	3.23E+09					
Dibutyltin dichloride	683-18-1		1	3.93E+04		3.23E+09					
Dibutyltin oxide	818-08-6		1			3.23E+09					
Dicalcium phosphate	7757-93-9		1			3.23E+09					
Dicamba	1918-00-9	0.1	1			3.23E+09					
Dichloro-2-butene, 1,4-	764-41-0		1	1.54E+04	5.20E+02	3.23E+09			9.35E-01	9.35E-01	
Dichloro-2-butene, cis-1,4-	1476-11-5		1	1.54E+04	5.20E+02	3.23E+09			9.35E-01	9.35E-01	
Dichloro-2-butene, trans-1,4-	110-57-6		1	1.54E+04	7.63E+02	3.23E+09			9.36E-01	9.36E-01	
Dichloroacetic Acid	79-43-6	0.1	1			3.23E+09	3.91E+02	1.37E+03		3.04E+02	
Dichloroaniline, 2,4-	554-00-7	0.1	1			3.23E+09					
Dichloroaniline, 3,4-	95-76-1		1	1.39E+05		3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Diallate	2303-16-4								2.49E+02 ca
Diammonium phosphate	7783-28-0				3.26E+08			3.26E+08	3.26E+08 max
Diazinon	333-41-5				4.69E+03	1.64E+04		3.65E+03	3.65E+03 nc
Dibenz[a,h]anthracene	53-70-3								7.63E-01 ca
Dibenzo(a,e)pyrene	192-65-4								1.19E+00 ca
Dibenzofuran	132-64-9				6.70E+03	7.82E+04		6.17E+03	6.17E+03 nc
Dibenzothiophene	132-65-0				6.70E+04			6.70E+04	6.70E+04 nc
Dibromo-3-chloropropane, 1,2-	96-12-8				1.34E+03		7.74E+02	4.91E+02	9.13E-01 ca
Dibromoacetic acid	631-64-1								
Dibromobenzene, 1,3-	108-36-1				2.68E+03			2.68E+03	2.68E+03 sat
Dibromobenzene, 1,4-	106-37-6				6.70E+04			6.70E+04	6.70E+04 nc
Dibromochloromethane	124-48-1				1.34E+05			1.34E+05	7.18E+01 ca
Dibromodichloromethane	594-18-3								
Dibromodiphenyl Ether, p,p'-	2050-47-7								
Dibromoethane, 1,2-	106-93-4				6.03E+04		9.40E+03	8.13E+03	3.34E+00 ca
Dibromomethane (Methylene Bromide)	74-95-3				6.70E+04		2.73E+03	2.62E+03	2.62E+03 nc
Dibutoxy di-n-butyltin	3349-36-8								
Dibutyl Phthalate	84-74-2				6.70E+05	2.34E+06		5.21E+05	5.21E+05 max
Dibutylbis((1-oxoisooctyl)oxy)stannane	85702-74-5								
Dibutylbis(octadeca-9(Z),12(Z),15(Z)-trienoyloxy)stannane	95873-60-2								
Dibutylbis(octadeca-9(Z),12(Z)-dienoyloxy)stannane	85391-79-3								
Dibutylbis(palmitoyloxy)stannane	13323-63-2								
Dibutyltin Compounds	NA				2.01E+03	7.03E+03		1.56E+03	1.56E+03 nc
Dibutyltin diacetate	1067-33-0								
Dibutyltin dichloride	683-18-1								
Dibutyltin oxide	818-08-6								
Dicalcium phosphate	7757-93-9				3.26E+08			3.26E+08	3.26E+08 max
Dicamba	1918-00-9				2.01E+05	7.03E+05		1.56E+05	1.56E+05 max
Dichloro-2-butene, 1,4-	764-41-0								9.35E-01 ca
Dichloro-2-butene, cis-1,4-	1476-11-5								9.35E-01 ca
Dichloro-2-butene, trans-1,4-	110-57-6								9.36E-01 ca
Dichloroacetic Acid	79-43-6				2.68E+04	9.38E+04		2.08E+04	3.04E+02 ca*
Dichloroaniline, 2,4-	554-00-7								
Dichloroaniline, 3,4-	95-76-1								

Site-specific
Recreator Screening Levels (RSL) for Soil
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Dichlorobenzene	25321-22-6	No	Yes									1
Dichlorobenzene, 1,2-	95-50-1	No	Yes					9.00E-02	U	2.00E-01	U	1
Dichlorobenzene, 1,3-	541-73-1	No	Yes									1
Dichlorobenzene, 1,4-	106-46-7	No	Yes	5.40E-03	U	1.10E-05	U	7.00E-02	U	8.00E-01	U	1
Dichlorobenzidine, 3,3'-	91-94-1	No	No	4.50E-01	U	3.40E-04	U					1
Dichlorobenzoic acid, -3,5	51-36-5	No	No									1
Dichlorobenzophenone, 4,4'-	90-98-2	No	No					9.00E-03	U			1
Dichlorobenzotrifluoride, 3,4-	328-84-7	No	Yes									1
Dichlorodifluoromethane	75-71-8	No	Yes					2.00E-01	U	1.00E-01	U	1
Dichlorodiisopropyl ether, 2,2'-	39638-32-9	No	Yes									1
Dichloroethane, 1,1-	75-34-3	No	Yes	5.70E-03	U	1.60E-06	U	2.00E-01	U			1
Dichloroethane, 1,2-	107-06-2	No	Yes	9.10E-02	U	2.60E-05	U	6.00E-03	U	7.00E-03	U	1
Dichloroethylene, 1,1-	75-35-4	No	Yes					5.00E-02	U	2.00E-01	U	1
Dichloroethylene, 1,2-cis-	156-59-2	No	Yes					2.00E-03	U			1
Dichloroethylene, 1,2-trans-	156-60-5	No	Yes					2.00E-02	U			1
Dichlorophenol, 2,3-	576-24-9	No	No									1
Dichlorophenol, 2,4-	120-83-2	No	No					3.00E-03	U			1
Dichlorophenol, 2,5-	583-78-8	Yes	No									1
Dichlorophenol, 2,6-	87-65-0	No	No									1
Dichlorophenol, 3,4-	95-77-2	No	No									1
Dichlorophenols (total)	NA	No	No									1
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	No	No					1.00E-02	U			1
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6	No	No					8.00E-03	U			1
Dichloropropane, 1,2-	78-87-5	No	Yes	3.60E-02	U	1.00E-05	U	9.00E-02	U	4.00E-03	U	1
Dichloropropane, 1,3-	142-28-9	No	Yes					2.00E-02	U			1
Dichloropropane, 2,2-	594-20-7	No	Yes									1
Dichloropropanol, 2,3-	616-23-9	No	No					3.00E-03	U			1
Dichloropropene, 1,3-	542-75-6	No	Yes	1.00E-01	U	4.00E-06	U	3.00E-02	U	2.00E-02	U	1
Dichloropropene, 2,3-	78-88-6	No	Yes									1
Dichloropropene, cis-1,3-	10061-01-5	No	Yes									1
Dichloropropene, trans-1,3-	10061-02-6	No	Yes									1
Dichlorvos	62-73-7	No	No	2.90E-01	U	8.30E-05	U	5.00E-04	U	5.00E-04	U	1
Diclofop-methyl	51338-27-3	No	No									1
Dicofol	115-32-2	No	No									1
Dicyclohexylamine	101-83-7	No	Yes									1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Dichlorobenzene	25321-22-6		1	1.61E+04	1.93E+02	3.23E+09					
Dichlorobenzene, 1,2-	95-50-1		1	1.61E+04	3.76E+02	3.23E+09					
Dichlorobenzene, 1,3-	541-73-1		1	1.37E+04	2.96E+02	3.23E+09					
Dichlorobenzene, 1,4-	106-46-7		1	1.44E+04		3.23E+09	3.62E+03		3.35E+02	3.06E+02	
Dichlorobenzidine, 3,3'-	91-94-1	0.1	1			3.23E+09	4.34E+01	1.52E+02	2.43E+06	3.38E+01	
Dichlorobenzoic acid, -3,5	51-36-5	0.1	1			3.23E+09					
Dichlorobenzophenone, 4,4'-	90-98-2	0.1	1			3.23E+09					
Dichlorobenzotrifluoride, 3,4-	328-84-7		1	1.59E+04	4.57E+01	3.23E+09					
Dichlorodifluoromethane	75-71-8		1	1.16E+03	8.44E+02	3.23E+09					
Dichlorodiisopropyl ether, 2,2'-	39638-32-9		1	1.81E+04	2.35E+02	3.23E+09					
Dichloroethane, 1,1-	75-34-3		1	2.87E+03	1.69E+03	3.23E+09	3.43E+03		4.59E+02	4.05E+02	
Dichloroethane, 1,2-	107-06-2		1	6.31E+03	2.98E+03	3.23E+09	2.15E+02		6.20E+01	4.81E+01	
Dichloroethylene, 1,1-	75-35-4		1	1.59E+03	1.19E+03	3.23E+09					
Dichloroethylene, 1,2-cis-	156-59-2		1	3.45E+03	2.37E+03	3.23E+09					
Dichloroethylene, 1,2-trans-	156-60-5		1	3.46E+03	1.67E+03	3.23E+09					
Dichlorophenol, 2,3-	576-24-9	0.1	1			3.23E+09					
Dichlorophenol, 2,4-	120-83-2	0.1	1			3.23E+09					
Dichlorophenol, 2,5-	583-78-8	0.1	1			3.23E+09					
Dichlorophenol, 2,6-	87-65-0	0.1	1			3.23E+09					
Dichlorophenol, 3,4-	95-77-2	0.1	1			3.23E+09					
Dichlorophenols (total)	NA	0.1	1			3.23E+09					
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7	0.05	1			3.23E+09					
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6	0.1	1			3.23E+09					
Dichloropropane, 1,2-	78-87-5		1	5.23E+03	1.36E+03	3.23E+09	5.43E+02		1.34E+02	1.07E+02	
Dichloropropane, 1,3-	142-28-9		1	9.33E+03	1.49E+03	3.23E+09					
Dichloropropane, 2,2-	594-20-7		1	2.21E+03	5.27E+02	3.23E+09					
Dichloropropanol, 2,3-	616-23-9	0.1	1			3.23E+09					
Dichloropropene, 1,3-	542-75-6		1	4.91E+03	1.57E+03	3.23E+09	1.95E+02		3.13E+02	1.20E+02	
Dichloropropene, 2,3-	78-88-6		1	4.27E+03	1.07E+03	3.23E+09					
Dichloropropene, cis-1,3-	10061-01-5		1	4.90E+03	1.22E+03	3.23E+09					
Dichloropropene, trans-1,3-	10061-02-6		1	4.91E+03	1.57E+03	3.23E+09					
Dichlorvos	62-73-7	0.1	1			3.23E+09	6.74E+01	2.36E+02	9.95E+06	5.24E+01	
Diclofop-methyl	51338-27-3	0.1	1			3.23E+09					
Dicofol	115-32-2	0.1	1			3.23E+09					
Dicyclohexylamine	101-83-7		1	8.62E+04	2.16E+03	3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Dichlorobenzene	25321-22-6								
Dichlorobenzene, 1,2-	95-50-1				6.03E+05		2.82E+05	1.92E+05	1.92E+05 sat
Dichlorobenzene, 1,3-	541-73-1								
Dichlorobenzene, 1,4-	106-46-7				4.69E+05		1.01E+06	3.20E+05	3.06E+02 ca
Dichlorobenzidine, 3,3'-	91-94-1								3.38E+01 ca
Dichlorobenzoic acid, -3,5	51-36-5								
Dichlorobenzophenone, 4,4'-	90-98-2				6.03E+04	2.11E+05		4.69E+04	4.69E+04 nc
Dichlorobenzotrifluoride, 3,4-	328-84-7								
Dichlorodifluoromethane	75-71-8				1.34E+06		1.02E+04	1.01E+04	1.01E+04 sat
Dichlorodiisopropyl ether, 2,2'-	39638-32-9								
Dichloroethane, 1,1-	75-34-3				1.34E+06			1.34E+06	4.05E+02 ca
Dichloroethane, 1,2-	107-06-2				4.02E+04		3.87E+03	3.53E+03	4.81E+01 ca*
Dichloroethylene, 1,1-	75-35-4				3.35E+05		2.79E+04	2.58E+04	2.58E+04 sat
Dichloroethylene, 1,2-cis-	156-59-2				1.34E+04			1.34E+04	1.34E+04 sat
Dichloroethylene, 1,2-trans-	156-60-5				1.34E+05			1.34E+05	1.34E+05 sat
Dichlorophenol, 2,3-	576-24-9								
Dichlorophenol, 2,4-	120-83-2				2.01E+04	7.03E+04		1.56E+04	1.56E+04 nc
Dichlorophenol, 2,5-	583-78-8								
Dichlorophenol, 2,6-	87-65-0								
Dichlorophenol, 3,4-	95-77-2								
Dichlorophenols (total)	NA								
Dichlorophenoxy Acetic Acid, 2,4-	94-75-7				6.70E+04	4.69E+05		5.86E+04	5.86E+04 nc
Dichlorophenoxy)butyric Acid, 4-(2,4-	94-82-6				5.36E+04	1.88E+05		4.17E+04	4.17E+04 nc
Dichloropropane, 1,2-	78-87-5				6.03E+05		1.83E+03	1.83E+03	1.07E+02 ca*
Dichloropropane, 1,3-	142-28-9				1.34E+05			1.34E+05	1.34E+05 sat
Dichloropropane, 2,2-	594-20-7								
Dichloropropanol, 2,3-	616-23-9				2.01E+04	7.03E+04		1.56E+04	1.56E+04 nc
Dichloropropene, 1,3-	542-75-6				2.01E+05		8.59E+03	8.24E+03	1.20E+02 ca*
Dichloropropene, 2,3-	78-88-6								
Dichloropropene, cis-1,3-	10061-01-5								
Dichloropropene, trans-1,3-	10061-02-6								
Dichlorvos	62-73-7				3.35E+03	1.17E+04	1.42E+08	2.61E+03	5.24E+01 ca*
Diclofop-methyl	51338-27-3								
Dicofol	115-32-2								
Dicyclohexylamine	101-83-7								

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Dicyclopentadiene	77-73-6	No	Yes					8.00E-02	U	3.00E-04	U	1
Didecyl dimethyl ammonium chloride	7173-51-5	No	No									1
Dieldrin	60-57-1	No	No	1.60E+01	U	4.60E-03	U	5.00E-05	U			1
Diepoxybutane	1464-53-5	No	Yes									1
Diethanolamine	111-42-2	No	No					2.00E-03	U	2.00E-04	U	1
Diethyl Phthalate	84-66-2	No	No					8.00E-01	U			1
Diethyl sulfate	64-67-5	No	No									1
Diethyl-p-nitrophenylphosphate	311-45-5	No	No									1
Diethylene Glycol Dinitrate (DEGDN)	693-21-0	No	No									1
Diethylene Glycol Monobutyl Ether	112-34-5	No	No					3.00E-02	U	1.00E-04	U	1
Diethylene Glycol Monoethyl Ether	111-90-0	No	No					6.00E-02	U	3.00E-04	U	1
Diethylene-glycol	111-46-6	No	No									1
Diethylformamide	617-84-5	No	Yes					1.00E-03	U			1
Diethylphosphorodithioate	298-06-6	No	Yes									1
Diethylstilbestrol	56-53-1	No	No	3.50E+02	U	1.00E-01	U					1
Difenzoquat	43222-48-6	No	No					8.00E-02	U			1
Diflubenzuron	35367-38-5	No	No					2.00E-02	U			1
Difluoroethane, 1,1-	75-37-6	No	Yes							4.00E+01	U	1
Difluoropropane, 2,2-	420-45-1	No	Yes									1
Dihydrosafrole	94-58-6	No	Yes	4.40E-02	U	1.30E-05	U					1
Diisopropyl Ether	108-20-3	No	Yes							7.00E-01	U	1
Diisopropyl Methylphosphonate	1445-75-6	No	Yes					8.00E-02	U			1
Dimagnesium phosphate	7782-75-4	No	No					4.86E+01	U			1
Dimethipin	55290-64-7	No	No					2.00E-02	U			1
Dimethoate	60-51-5	No	No					2.00E-04	U			1
Dimethoxybenzidine, 3,3'-	119-90-4	No	No	1.60E+00	U							1
Dimethyl Sulfate	77-78-1	No	No									1
Dimethyl Sulfide	75-18-3	No	Yes									1
Dimethyl methylphosphonate	756-79-6	No	No	1.70E-03	U			6.00E-02	U			1
Dimethylamino azobenzene [p-]	60-11-7	No	No	4.60E+00	U	1.30E-03	U					1
Dimethylaniline HCl, 2,4-	21436-96-4	No	No	5.80E-01	U							1
Dimethylaniline, 2,4-	95-68-1	No	No	2.00E-01	U			2.00E-03	U			1
Dimethylaniline, N,N-	121-69-7	No	Yes					2.00E-03	U			1
Dimethylbenz(a)anthracene, 7,12-	57-97-6	Yes	No	2.50E+02	U	7.10E-02	U					1
Dimethylbenzidine, 3,3'-	119-93-7	No	No	1.10E+01	U							1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Dicyclopentadiene	77-73-6		1	5.67E+03		3.23E+09					
Didecyl dimethyl ammonium chloride	7173-51-5	0.1	1			3.23E+09					
Dieldrin	60-57-1	0.1	1			3.23E+09	1.22E+00	4.27E+00	1.80E+05	9.50E-01	
Diepoxybutane	1464-53-5		1	2.02E+05	1.15E+05	3.23E+09					
Diethanolamine	111-42-2	0.1	1			3.23E+09					
Diethyl Phthalate	84-66-2	0.1	1			3.23E+09					
Diethyl sulfate	64-67-5	0.1	1			3.23E+09					
Diethyl-p-nitrophenylphosphate	311-45-5	0.1	1			3.23E+09					
Diethylene Glycol Dinitrate (DEGDN)	693-21-0	0.1	1			3.23E+09					
Diethylene Glycol Monobutyl Ether	112-34-5	0.1	1			3.23E+09					
Diethylene Glycol Monoethyl Ether	111-90-0	0.1	1			3.23E+09					
Diethylene-glycol	111-46-6	0.1	1			3.23E+09					
Diethylformamide	617-84-5		1	1.91E+05	1.12E+05	3.23E+09					
Diethylphosphorodithioate	298-06-6		1	1.79E+04	2.15E-02	3.23E+09					
Diethylstilbestrol	56-53-1	0.1	1			3.23E+09	5.58E-02	1.95E-01	8.26E+03	4.34E-02	
Difenzoquat	43222-48-6	0.1	1			3.23E+09					
Diflubenzuron	35367-38-5	0.1	1			3.23E+09					
Difluoroethane, 1,1-	75-37-6		1	1.59E+03	1.43E+03	3.23E+09					
Difluoropropane, 2,2-	420-45-1		1	1.01E+03	4.63E+04	3.23E+09					
Dihydrosafrole	94-58-6		1	2.08E+03		3.23E+09	4.44E+02		4.09E+01	3.74E+01	
Diisopropyl Ether	108-20-3		1	4.21E+03	2.26E+03	3.23E+09					
Diisopropyl Methylphosphonate	1445-75-6		1	5.26E+04	5.30E+02	3.23E+09					
Dimagnesium phosphate	7782-75-4		1			3.23E+09					
Dimethipin	55290-64-7	0.1	1			3.23E+09					
Dimethoate	60-51-5	0.1	1			3.23E+09					
Dimethoxybenzidine, 3,3'-	119-90-4	0.1	1			3.23E+09	1.22E+01	4.27E+01		9.50E+00	
Dimethyl Sulfate	77-78-1	0.1	1			3.23E+09					
Dimethyl Sulfide	75-18-3		1	4.10E+03	5.34E+03	3.23E+09					
Dimethyl methylphosphonate	756-79-6	0.1	1			3.23E+09	1.15E+04	4.02E+04		8.94E+03	
Dimethylamino azobenzene [p-]	60-11-7	0.1	1			3.23E+09	4.25E+00	1.49E+01	6.35E+05	3.30E+00	
Dimethylaniline HCl, 2,4-	21436-96-4	0.1	1			3.23E+09	3.37E+01	1.18E+02		2.62E+01	
Dimethylaniline, 2,4-	95-68-1	0.1	1			3.23E+09	9.77E+01	3.42E+02		7.60E+01	
Dimethylaniline, N,N-	121-69-7		1	4.32E+04	8.30E+02	3.23E+09					
Dimethylbenz(a)anthracene, 7,12-	57-97-6	0.13	1			3.23E+09	2.66E-02	1.38E-01	6.35E+03	2.23E-02	
Dimethylbenzidine, 3,3'-	119-93-7	0.1	1			3.23E+09	1.78E+00	6.22E+00		1.38E+00	

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Dicyclopentadiene	77-73-6				5.36E+05		1.49E+02	1.49E+02	1.49E+02 nc
Didecyl dimethyl ammonium chloride	7173-51-5								
Dieldrin	60-57-1				3.35E+02	1.17E+03		2.61E+02	9.50E-01 ca
Diepoxybutane	1464-53-5								
Diethanolamine	111-42-2				1.34E+04	4.69E+04	5.66E+07	1.04E+04	1.04E+04 nc
Diethyl Phthalate	84-66-2				5.36E+06	1.88E+07		4.17E+06	4.17E+06 max
Diethyl sulfate	64-67-5								
Diethyl-p-nitrophenylphosphate	311-45-5								
Diethylene Glycol Dinitrate (DEGDN)	693-21-0								
Diethylene Glycol Monobutyl Ether	112-34-5				2.01E+05	7.03E+05	2.83E+07	1.56E+05	1.56E+05 max
Diethylene Glycol Monoethyl Ether	111-90-0				4.02E+05	1.41E+06	8.50E+07	3.12E+05	3.12E+05 max
Diethylene-glycol	111-46-6								
Diethylformamide	617-84-5				6.70E+03			6.70E+03	6.70E+03 nc
Diethylphosphorodithioate	298-06-6								
Diethylstilbestrol	56-53-1								4.34E-02 ca
Difenzoquat	43222-48-6				5.36E+05	1.88E+06		4.17E+05	4.17E+05 max
Diflubenzuron	35367-38-5				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Difluoroethane, 1,1-	75-37-6						5.55E+06	5.55E+06	5.55E+06 sat
Difluoropropane, 2,2-	420-45-1								
Dihydrosafrole	94-58-6								3.74E+01 ca
Diisopropyl Ether	108-20-3						2.58E+05	2.58E+05	2.58E+05 sat
Diisopropyl Methylphosphonate	1445-75-6				5.36E+05			5.36E+05	5.36E+05 sat
Dimagnesium phosphate	7782-75-4				3.26E+08			3.26E+08	3.26E+08 max
Dimethipin	55290-64-7				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Dimethoate	60-51-5				1.34E+03	4.69E+03		1.04E+03	1.04E+03 nc
Dimethoxybenzidine, 3,3'-	119-90-4								9.50E+00 ca
Dimethyl Sulfate	77-78-1								
Dimethyl Sulfide	75-18-3								
Dimethyl methylphosphonate	756-79-6				4.02E+05	1.41E+06		3.13E+05	8.94E+03 ca*
Dimethylamino azobenzene [p-]	60-11-7								3.30E+00 ca
Dimethylaniline HCl, 2,4-	21436-96-4								2.62E+01 ca
Dimethylaniline, 2,4-	95-68-1				1.34E+04	4.69E+04		1.04E+04	7.60E+01 ca
Dimethylaniline, N,N-	121-69-7				1.34E+04			1.34E+04	1.34E+04 sat
Dimethylbenz(a)anthracene, 7,12-	57-97-6								2.23E-02 ca
Dimethylbenzidine, 3,3'-	119-93-7								1.38E+00 ca

Site-specific
Recreator Screening Levels (RSL) for Soil
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Dimethylcyclohexylamine, n,n-	98-94-2	No	Yes									1
Dimethylethyl Lead	107584-40-7	No	No									1
Dimethylformamide	68-12-2	No	Yes					1.00E-01	U	3.00E-02	U	1
Dimethylhydrazine, 1,1-	57-14-7	No	Yes					1.00E-04	U	2.00E-06	U	1
Dimethylhydrazine, 1,2-	540-73-8	No	Yes	5.50E+02	U	1.60E-01	U					1
Dimethylmercury	593-74-8	No	Yes									1
Dimethylphenethylamine	122-09-8	No	No									1
Dimethylphenol, 2,4-	105-67-9	No	No					2.00E-02	U			1
Dimethylphenol, 2,6-	576-26-1	No	No					6.00E-04	U			1
Dimethylphenol, 3,4-	95-65-8	No	No					1.00E-03	U			1
Dimethylphthalate	131-11-3	No	No									1
Dimethylterephthalate	120-61-6	No	Yes					1.00E-01	U			1
Dimethylvinylchloride	513-37-1	No	Yes	4.50E-02	U	1.30E-05	U					1
Dinitro-o-cresol, 4,6-	534-52-1	No	No					8.00E-05	U			1
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	No	No					2.00E-03	U			1
Dinitroaniline, 3,5-	618-87-1	No	No									1
Dinitrobenzene, 1,2-	528-29-0	No	No					1.00E-04	U			1
Dinitrobenzene, 1,3-	99-65-0	No	No					1.00E-04	U			1
Dinitrobenzene, 1,4-	100-25-4	No	No					1.00E-04	U			1
Dinitrophenol, 2,4-	51-28-5	No	No					2.00E-03	U			1
Dinitrophenols	25550-58-7	Yes	No									1
Dinitrosopentamethylenetetramine, N,N-	101-25-7	No	No									1
Dinitrotoluene Mixture, 2,4/2,6-	NA	No	No	6.80E-01	U							1
Dinitrotoluene, 2,4-	121-14-2	No	No	3.10E-01	U	8.90E-05	U	2.00E-03	U			1
Dinitrotoluene, 2,6-	606-20-2	No	No	1.50E+00	U			3.00E-04	U			1
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	No	No					2.00E-03	U			1
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	No	No					2.00E-03	U			1
Dinitrotoluene, Technical grade	25321-14-6	No	No	4.50E-01	U			9.00E-04	U			1
Dinoseb	88-85-7	No	No					1.00E-03	U			1
Dioxane, 1,4-	123-91-1	No	Yes	1.00E-01	U	5.00E-06	U	3.00E-02	U	3.00E-02	U	1
Diphenamid	957-51-7	No	No					3.00E-02	U			1
Diphenyl Sulfone	127-63-9	No	No					8.00E-04	U			1
Diphenylamine	122-39-4	No	No					2.50E-02	U			1
Diphenylhydrazine, 1,2-	122-66-7	No	No	8.00E-01	U	2.20E-04	U					1
Dipotassium phosphate	7758-11-4	No	No					4.86E+01	U			1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Dimethylcyclohexylamine, n,n-	98-94-2		1	5.23E+04		3.23E+09					
Dimethylethyl Lead	107584-40-7	0.1	1			3.23E+09					
Dimethylformamide	68-12-2		1	1.76E+05	1.06E+05	3.23E+09					
Dimethylhydrazine, 1,1-	57-14-7		1	2.23E+05	1.72E+05	3.23E+09					
Dimethylhydrazine, 1,2-	540-73-8		1	2.31E+05	1.89E+05	3.23E+09	3.55E-02		3.69E-01	3.24E-02	
Dimethylmercury	593-74-8		1	5.88E+03	4.14E+03	3.23E+09					
Dimethylphenethylamine	122-09-8	0.1	1			3.23E+09					
Dimethylphenol, 2,4-	105-67-9	0.1	1			3.23E+09					
Dimethylphenol, 2,6-	576-26-1	0.1	1			3.23E+09					
Dimethylphenol, 3,4-	95-65-8	0.1	1			3.23E+09					
Dimethylphthalate	131-11-3	0.1	1			3.23E+09					
Dimethylterephthalate	120-61-6		1	2.95E+04		3.23E+09					
Dimethylvinylchloride	513-37-1		1	1.39E+03	1.09E+03	3.23E+09	4.34E+02		2.73E+01	2.57E+01	
Dinitro-o-cresol, 4,6-	534-52-1	0.1	1			3.23E+09					
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5	0.1	1			3.23E+09					
Dinitroaniline, 3,5-	618-87-1	0.1	1			3.23E+09					
Dinitrobenzene, 1,2-	528-29-0	0.1	1			3.23E+09					
Dinitrobenzene, 1,3-	99-65-0	0.1	1			3.23E+09					
Dinitrobenzene, 1,4-	100-25-4	0.1	1			3.23E+09					
Dinitrophenol, 2,4-	51-28-5	0.1	1			3.23E+09					
Dinitrophenols	25550-58-7	0.1	1			3.23E+09					
Dinitrosopentamethylenetetramine, N,N-	101-25-7	0.1	1			3.23E+09					
Dinitrotoluene Mixture, 2,4/2,6-	NA	0.1	1			3.23E+09	2.87E+01	1.01E+02		2.24E+01	
Dinitrotoluene, 2,4-	121-14-2	0.102	1			3.23E+09	6.31E+01	2.16E+02	9.28E+06	4.88E+01	
Dinitrotoluene, 2,6-	606-20-2	0.099	1			3.23E+09	1.30E+01	4.61E+01		1.02E+01	
Dinitrotoluene, 2-Amino-4,6-	35572-78-2	0.006	1			3.23E+09					
Dinitrotoluene, 4-Amino-2,6-	19406-51-0	0.009	1			3.23E+09					
Dinitrotoluene, Technical grade	25321-14-6	0.1	1			3.23E+09	4.34E+01	1.52E+02		3.38E+01	
Dinoseb	88-85-7	0.1	1			3.23E+09					
Dioxane, 1,4-	123-91-1		1	5.47E+04	1.16E+05	3.23E+09	1.95E+02		2.80E+03	1.83E+02	
Diphenamid	957-51-7	0.1	1			3.23E+09					
Diphenyl Sulfone	127-63-9	0.1	1			3.23E+09					
Diphenylamine	122-39-4	0.1	1			3.23E+09					
Diphenylhydrazine, 1,2-	122-66-7	0.1	1			3.23E+09	2.44E+01	8.55E+01	3.75E+06	1.90E+01	
Dipotassium phosphate	7758-11-4		1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Dimethylcyclohexylamine, n,n-	98-94-2								
Dimethylethyl Lead	107584-40-7								
Dimethylformamide	68-12-2				6.70E+05		4.62E+05	2.74E+05	2.74E+05 sat
Dimethylhydrazine, 1,1-	57-14-7				6.70E+02		3.91E+01	3.69E+01	3.69E+01 nc
Dimethylhydrazine, 1,2-	540-73-8								3.24E-02 ca
Dimethylmercury	593-74-8								
Dimethylphenethylamine	122-09-8								
Dimethylphenol, 2,4-	105-67-9				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Dimethylphenol, 2,6-	576-26-1				4.02E+03	1.41E+04		3.13E+03	3.13E+03 nc
Dimethylphenol, 3,4-	95-65-8				6.70E+03	2.34E+04		5.21E+03	5.21E+03 nc
Dimethylphthalate	131-11-3								
Dimethylterephthalate	120-61-6				6.70E+05			6.70E+05	6.70E+05 max
Dimethylvinylchloride	513-37-1								2.57E+01 ca
Dinitro-o-cresol, 4,6-	534-52-1				5.36E+02	1.88E+03		4.17E+02	4.17E+02 nc
Dinitro-o-cyclohexyl Phenol, 4,6-	131-89-5				1.34E+04	4.69E+04		1.04E+04	1.04E+04 nc
Dinitroaniline, 3,5-	618-87-1								
Dinitrobenzene, 1,2-	528-29-0				6.70E+02	2.34E+03		5.21E+02	5.21E+02 nc
Dinitrobenzene, 1,3-	99-65-0				6.70E+02	2.34E+03		5.21E+02	5.21E+02 nc
Dinitrobenzene, 1,4-	100-25-4				6.70E+02	2.34E+03		5.21E+02	5.21E+02 nc
Dinitrophenol, 2,4-	51-28-5				1.34E+04	4.69E+04		1.04E+04	1.04E+04 nc
Dinitrophenols	25550-58-7								
Dinitrosopentamethylenetetramine, N,N-	101-25-7								
Dinitrotoluene Mixture, 2,4/2,6-	NA								2.24E+01 ca
Dinitrotoluene, 2,4-	121-14-2				1.34E+04	4.60E+04		1.04E+04	4.88E+01 ca
Dinitrotoluene, 2,6-	606-20-2				2.01E+03	7.11E+03		1.57E+03	1.02E+01 ca
Dinitrotoluene, 2-Amino-4,6-	35572-78-2				1.34E+04	7.82E+05		1.32E+04	1.32E+04 nc
Dinitrotoluene, 4-Amino-2,6-	19406-51-0				1.34E+04	5.21E+05		1.31E+04	1.31E+04 nc
Dinitrotoluene, Technical grade	25321-14-6				6.03E+03	2.11E+04		4.69E+03	3.38E+01 ca
Dinoseb	88-85-7				6.70E+03	2.34E+04		5.21E+03	5.21E+03 nc
Dioxane, 1,4-	123-91-1				2.01E+05		1.44E+05	8.38E+04	1.83E+02 ca
Diphenamid	957-51-7				2.01E+05	7.03E+05		1.56E+05	1.56E+05 max
Diphenyl Sulfone	127-63-9				5.36E+03	1.88E+04		4.17E+03	4.17E+03 nc
Diphenylamine	122-39-4				1.68E+05	5.86E+05		1.30E+05	1.30E+05 max
Diphenylhydrazine, 1,2-	122-66-7								1.90E+01 ca
Dipotassium phosphate	7758-11-4				3.26E+08			3.26E+08	3.26E+08 max

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Diquat	85-00-7	No	No					2.20E-03	U			1
Direct Black 38	1937-37-7	No	No	7.10E+00	U	1.40E-01	U					1
Direct Blue 6	2602-46-2	No	No	7.40E+00	U	1.40E-01	U					1
Direct Brown 95	16071-86-6	No	No	6.70E+00	U	1.40E-01	U					1
Direct Sky Blue	2610-05-1	No	No									1
Disodium phosphate	7558-79-4	No	No					4.86E+01	U			1
Disulfoton	298-04-4	No	No					4.00E-05	U			1
Dithiane, 1,4-	505-29-3	No	Yes					1.00E-02	U			1
Diuron	330-54-1	No	No					2.00E-03	U			1
Dodecyl benzenesulfonic acid	27176-87-0	No	No									1
Dodine	2439-10-3	No	No					4.00E-03	U			1
EPTC	759-94-4	No	Yes					2.50E-02	U			1
Endosulfan	115-29-7	No	Yes					6.00E-03	U			1
Endosulfan I	959-98-8	No	Yes									1
Endosulfan II	33213-65-9	No	Yes									1
Endosulfan Sulfate	1031-07-8	No	No									1
Endothall	145-73-3	No	No					2.00E-02	U			1
Endrin	72-20-8	No	No					3.00E-04	U			1
Endrin aldehyde	7421-93-4	No	No									1
Endrin ketone	53494-70-5	No	No									1
Epichlorohydrin	106-89-8	No	Yes	9.90E-03	U	1.20E-06	U	6.00E-03	U	1.00E-03	U	1
Epoxybutane, 1,2-	106-88-7	No	Yes							2.00E-02	U	1
Ethanol	64-17-5	No	Yes									1
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	No	No									1
Ethephon	16672-87-0	No	No					5.00E-03	U			1
Ethion	563-12-2	No	No					5.00E-04	U			1
Ethoxy Propanol	52125-53-8	No	Yes									1
Ethoxyethanol Acetate, 2-	111-15-9	No	Yes					1.00E-01	U	6.00E-02	U	1
Ethoxyethanol, 2-	110-80-5	No	Yes					9.00E-02	U	2.00E-01	U	1
Ethyl Acetate	141-78-6	No	Yes					9.00E-01	U	7.00E-02	U	1
Ethyl Acrylate	140-88-5	No	Yes	4.80E-02	U			5.00E-03	U	8.00E-03	U	1
Ethyl Chloride	75-00-3	No	Yes							1.00E+01	U	1
Ethyl Ether	60-29-7	No	Yes					2.00E-01	U			1
Ethyl Methacrylate	97-63-2	No	Yes					9.00E-02	U	3.00E-01	U	1
Ethyl methane sulfonate	62-50-0	No	No									1

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Diquat	85-00-7	0.1	1			3.23E+09					
Direct Black 38	1937-37-7	0.1	1			3.23E+09	2.75E+00	9.63E+00	5.90E+03	2.14E+00	
Direct Blue 6	2602-46-2	0.1	1			3.23E+09	2.64E+00	9.24E+00	5.90E+03	2.05E+00	
Direct Brown 95	16071-86-6	0.1	1			3.23E+09	2.92E+00	1.02E+01	5.90E+03	2.27E+00	
Direct Sky Blue	2610-05-1	0.1	1			3.23E+09					
Disodium phosphate	7558-79-4		1			3.23E+09					
Disulfoton	298-04-4	0.1	1			3.23E+09					
Dithiane, 1,4-	505-29-3		1	6.26E+04		3.23E+09					
Diuron	330-54-1	0.1	1			3.23E+09					
Dodecyl benzenesulfonic acid	27176-87-0	0.1	1			3.23E+09					
Dodine	2439-10-3	0.1	1			3.23E+09					
EPTC	759-94-4		1	1.62E+05		3.23E+09					
Endosulfan	115-29-7		1	5.65E+05		3.23E+09					
Endosulfan I	959-98-8		1	5.65E+05		3.23E+09					
Endosulfan II	33213-65-9		1	5.51E+05		3.23E+09					
Endosulfan Sulfate	1031-07-8	0.1	1			3.23E+09					
Endothall	145-73-3	0.1	1			3.23E+09					
Endrin	72-20-8	0.1	1			3.23E+09					
Endrin aldehyde	7421-93-4	0.1	1			3.23E+09					
Endrin ketone	53494-70-5	0.1	1			3.23E+09					
Epichlorohydrin	106-89-8		1	2.61E+04	1.05E+04	3.23E+09	1.97E+03		5.55E+03	1.46E+03	
Epoxybutane, 1,2-	106-88-7		1	1.06E+04	1.53E+04	3.23E+09					
Ethanol	64-17-5		1	4.34E+04	1.06E+05	3.23E+09					
Ethanol, 2-(2-methoxyethoxy)-	111-77-3	0.1	1			3.23E+09					
Ethephon	16672-87-0	0.1	1			3.23E+09					
Ethion	563-12-2	0.1	1			3.23E+09					
Ethoxy Propanol	52125-53-8		1	1.26E+05	8.55E+04	3.23E+09					
Ethoxyethanol Acetate, 2-	111-15-9		1	8.47E+04	3.14E+04	3.23E+09					
Ethoxyethanol, 2-	110-80-5		1	1.36E+05	1.06E+05	3.23E+09					
Ethyl Acetate	141-78-6		1	1.19E+04	1.08E+04	3.23E+09					
Ethyl Acrylate	140-88-5		1	8.74E+03	2.50E+03	3.23E+09	4.07E+02			4.07E+02	
Ethyl Chloride	75-00-3		1	1.78E+03	2.12E+03	3.23E+09					
Ethyl Ether	60-29-7		1	4.31E+03	1.01E+04	3.23E+09					
Ethyl Methacrylate	97-63-2		1	7.97E+03	1.11E+03	3.23E+09					
Ethyl methane sulfonate	62-50-0	0.1	1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Diquat	85-00-7				1.47E+04	5.16E+04		1.15E+04	1.15E+04 nc
Direct Black 38	1937-37-7								2.14E+00 ca
Direct Blue 6	2602-46-2								2.05E+00 ca
Direct Brown 95	16071-86-6								2.27E+00 ca
Direct Sky Blue	2610-05-1								
Disodium phosphate	7558-79-4				3.26E+08			3.26E+08	3.26E+08 max
Disulfoton	298-04-4				2.68E+02	9.38E+02		2.08E+02	2.08E+02 nc
Dithiane, 1,4-	505-29-3				6.70E+04			6.70E+04	6.70E+04 nc
Diuron	330-54-1				1.34E+04	4.69E+04		1.04E+04	1.04E+04 nc
Dodecyl benzenesulfonic acid	27176-87-0								
Dodine	2439-10-3				2.68E+04	9.38E+04		2.08E+04	2.08E+04 nc
EPTC	759-94-4				1.68E+05			1.68E+05	1.68E+05 max
Endosulfan	115-29-7				4.02E+04			4.02E+04	4.02E+04 nc
Endosulfan I	959-98-8								
Endosulfan II	33213-65-9								
Endosulfan Sulfate	1031-07-8								
Endothall	145-73-3				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Endrin	72-20-8				2.01E+03	7.03E+03		1.56E+03	1.56E+03 nc
Endrin aldehyde	7421-93-4								
Endrin ketone	53494-70-5								
Epichlorohydrin	106-89-8				4.02E+04		2.28E+03	2.16E+03	1.46E+03 ca**
Epoxybutane, 1,2-	106-88-7						1.85E+04	1.85E+04	1.85E+04 sat
Ethanol	64-17-5								
Ethanol, 2-(2-methoxyethoxy)-	111-77-3								
Ethephon	16672-87-0				3.35E+04	1.17E+05		2.61E+04	2.61E+04 nc
Ethion	563-12-2				3.35E+03	1.17E+04		2.61E+03	2.61E+03 nc
Ethoxy Propanol	52125-53-8								
Ethoxyethanol Acetate, 2-	111-15-9				6.70E+05		4.45E+05	2.68E+05	2.68E+05 sat
Ethoxyethanol, 2-	110-80-5				6.03E+05		2.38E+06	4.81E+05	4.81E+05 sat
Ethyl Acetate	141-78-6				6.03E+06		7.29E+04	7.20E+04	7.20E+04 sat
Ethyl Acrylate	140-88-5				3.35E+04		6.13E+03	5.18E+03	4.07E+02 ca*
Ethyl Chloride	75-00-3						1.56E+06	1.56E+06	1.56E+06 sat
Ethyl Ether	60-29-7				1.34E+06			1.34E+06	1.34E+06 sat
Ethyl Methacrylate	97-63-2				6.03E+05		2.10E+05	1.55E+05	1.55E+05 sat
Ethyl methane sulfonate	62-50-0								

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	No	No					1.00E-05	U			1
Ethylbenzene	100-41-4	No	Yes	1.10E-02	U	2.50E-06	U	1.00E-01	U	1.00E+00	U	1
Ethylene Cyanohydrin	109-78-4	No	No					7.00E-02	U			1
Ethylene Diamine	107-15-3	No	Yes					9.00E-02	U			1
Ethylene Glycol	107-21-1	No	No					2.00E+00	U	4.00E-01	U	1
Ethylene Glycol Monobutyl Ether	111-76-2	No	No					1.00E-01	U	1.60E+00	U	1
Ethylene Oxide	75-21-8	No	Yes	3.10E-01	U	8.80E-05	U			3.00E-02	U	1
Ethylene Thiourea	96-45-7	No	No	4.50E-02	U	1.30E-05	U	8.00E-05	U			1
Ethyleneimine	151-56-4	No	Yes	6.50E+01	U	1.90E-02	U					1
Ethylphenol, 4-	123-07-9	No	No									1
Ethylphthalyl Ethyl Glycolate	84-72-0	No	No					3.00E+00	U			1
Express	101200-48-0	No	No					8.00E-03	U			1
Famphur	52-85-7	No	No									1
Fenamiphos	22224-92-6	No	No					2.50E-04	U			1
Fenpropathrin	39515-41-8	No	No					2.50E-02	U			1
Fluometuron	2164-17-2	No	No					1.30E-02	U			1
Fluoranthene	206-44-0	No	No					4.00E-02	U			1
Fluorene	86-73-7	No	Yes					4.00E-02	U			1
Fluoride	16984-48-8	No	No					4.00E-02	U	1.30E-02	U	1
Fluorine (Soluble Fluoride)	7782-41-4	No	No					6.00E-02	U	1.30E-02	U	1
Fluorobenzene	462-06-6	No	Yes									1
Fluorobiphenyl, 2-	321-60-8	No	Yes									1
Fluorophenol, 2-	367-12-4	No	Yes									1
Fluridone	59756-60-4	No	No					8.00E-02	U			1
Flurprimidol	56425-91-3	No	No					2.00E-02	U			1
Flutolanil	66332-96-5	No	No					6.00E-02	U			1
Fluvalinate	69409-94-5	No	No					1.00E-02	U			1
Folpet	133-07-3	No	No	3.50E-03	U			1.00E-01	U			1
Fomesafen	72178-02-0	No	No	1.90E-01	U							1
Fonofos	944-22-9	No	No					2.00E-03	U			1
Formaldehyde	50-00-0	No	Yes			1.30E-05	U	2.00E-01	U	9.83E-03	U	1
Formic Acid	64-18-6	No	Yes					9.00E-01	U	3.00E-04	U	1
Fosetyl-AL	39148-24-8	No	No					3.00E+00	U			1
Fuel Oil Number 2	68476-30-2	No	No									1
Furan	110-00-9	No	Yes					1.00E-03	U			1

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Ethyl-p-nitrophenyl Phosphonate	2104-64-5	0.1	1			3.23E+09					
Ethylbenzene	100-41-4		1	7.82E+03	4.79E+02	3.23E+09	1.78E+03		7.99E+02	5.51E+02	
Ethylene Cyanohydrin	109-78-4	0.1	1			3.23E+09					
Ethylene Diamine	107-15-3		1	2.48E+05	1.89E+05	3.23E+09					
Ethylene Glycol	107-21-1	0.1	1			3.23E+09					
Ethylene Glycol Monobutyl Ether	111-76-2	0.1	1			3.23E+09					
Ethylene Oxide	75-21-8		1	8.40E+03	1.21E+05	3.23E+09	6.31E+01		2.44E+01	1.76E+01	
Ethylene Thiourea	96-45-7	0.1	1			3.23E+09	4.34E+02	1.52E+03	6.35E+07	3.38E+02	
Ethyleneimine	151-56-4		1	3.29E+04	1.54E+05	3.23E+09	3.01E-01		4.43E-01	1.79E-01	
Ethylphenol, 4-	123-07-9	0.1	1			3.23E+09					
Ethylphthalyl Ethyl Glycolate	84-72-0	0.1	1			3.23E+09					
Express	101200-48-0	0.1	1			3.23E+09					
Famphur	52-85-7	0.1	1			3.23E+09					
Fenamiphos	22224-92-6	0.1	1			3.23E+09					
Fenpropathrin	39515-41-8	0.1	1			3.23E+09					
Fluometuron	2164-17-2	0.1	1			3.23E+09					
Fluoranthene	206-44-0	0.13	1			3.23E+09					
Fluorene	86-73-7	0.13	1	3.88E+05		3.23E+09					
Fluoride	16984-48-8		1			3.23E+09					
Fluorine (Soluble Fluoride)	7782-41-4		1			3.23E+09					
Fluorobenzene	462-06-6		1	6.49E+03	2.39E+03	3.23E+09					
Fluorobiphenyl, 2-	321-60-8		1	1.08E+05		3.23E+09					
Fluorophenol, 2-	367-12-4		1	2.93E+05	9.21E+04	3.23E+09					
Fluridone	59756-60-4	0.1	1			3.23E+09					
Flurprimidol	56425-91-3	0.1	1			3.23E+09					
Flutolanil	66332-96-5	0.1	1			3.23E+09					
Fluvalinate	69409-94-5	0.1	1			3.23E+09					
Folpet	133-07-3	0.1	1			3.23E+09	5.58E+03	1.95E+04		4.34E+03	
Fomesafen	72178-02-0	0.1	1			3.23E+09	1.03E+02	3.60E+02		8.00E+01	
Fonofos	944-22-9	0.1	1			3.23E+09					
Formaldehyde	50-00-0		1	1.07E+05	4.24E+04	3.23E+09			2.11E+03	2.11E+03	
Formic Acid	64-18-6		1	1.28E+05	1.06E+05	3.23E+09					
Fosetyl-AL	39148-24-8	0.1	1			3.23E+09					
Fuel Oil Number 2	68476-30-2	0.1	1			3.23E+09					
Furan	110-00-9	0.03	1	3.60E+03	6.22E+03	3.23E+09					

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
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Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Ethyl-p-nitrophenyl Phosphonate	2104-64-5				6.70E+01	2.34E+02		5.21E+01	5.21E+01 nc
Ethylbenzene	100-41-4				6.70E+05		6.85E+05	3.39E+05	5.51E+02 sat
Ethylene Cyanohydrin	109-78-4				4.69E+05	1.64E+06		3.65E+05	3.65E+05 max
Ethylene Diamine	107-15-3				6.03E+05			6.03E+05	6.03E+05 sat
Ethylene Glycol	107-21-1				1.34E+07	4.69E+07	1.13E+11	1.04E+07	1.04E+07 max
Ethylene Glycol Monobutyl Ether	111-76-2				6.70E+05	2.34E+06	4.53E+11	5.21E+05	5.21E+05 max
Ethylene Oxide	75-21-8						2.21E+04	2.21E+04	1.76E+01 ca
Ethylene Thiourea	96-45-7				5.36E+02	1.88E+03		4.17E+02	3.38E+02 ca**
Ethyleneimine	151-56-4								1.79E-01 ca
Ethylphenol, 4-	123-07-9								
Ethylphthalyl Ethyl Glycolate	84-72-0				2.01E+07	7.03E+07		1.56E+07	1.56E+07 max
Express	101200-48-0				5.36E+04	1.88E+05		4.17E+04	4.17E+04 nc
Famphur	52-85-7								
Fenamiphos	22224-92-6				1.68E+03	5.86E+03		1.30E+03	1.30E+03 nc
Fenpropathrin	39515-41-8				1.68E+05	5.86E+05		1.30E+05	1.30E+05 max
Fluometuron	2164-17-2				8.71E+04	3.05E+05		6.78E+04	6.78E+04 nc
Fluoranthene	206-44-0				2.68E+05	7.22E+05		1.95E+05	1.95E+05 max
Fluorene	86-73-7				2.68E+05	7.22E+05		1.95E+05	1.95E+05 max
Fluoride	16984-48-8				2.68E+05		3.68E+09	2.68E+05	2.68E+05 max
Fluorine (Soluble Fluoride)	7782-41-4				4.02E+05		3.68E+09	4.02E+05	4.02E+05 max
Fluorobenzene	462-06-6								
Fluorobiphenyl, 2-	321-60-8								
Fluorophenol, 2-	367-12-4								
Fluridone	59756-60-4				5.36E+05	1.88E+06		4.17E+05	4.17E+05 max
Flurprimidol	56425-91-3				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Flutolanil	66332-96-5				4.02E+05	1.41E+06		3.13E+05	3.13E+05 max
Fluvalinate	69409-94-5				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Folpet	133-07-3				6.70E+05	2.34E+06		5.21E+05	4.34E+03 ca
Fomesafen	72178-02-0								8.00E+01 ca
Fonofos	944-22-9				1.34E+04	4.69E+04		1.04E+04	1.04E+04 nc
Formaldehyde	50-00-0				1.34E+06		9.23E+04	8.64E+04	2.11E+03 ca*
Formic Acid	64-18-6				6.03E+06		3.37E+03	3.37E+03	3.37E+03 nc
Fosetyl-AL	39148-24-8				2.01E+07	7.03E+07		1.56E+07	1.56E+07 max
Fuel Oil Number 2	68476-30-2								
Furan	110-00-9				6.70E+03	7.82E+04		6.17E+03	6.17E+03 nc

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Furazolidone	67-45-8	No	No	3.80E+00	U							1
Furfural	98-01-1	No	Yes					3.00E-03	U	5.00E-02	U	1
Furium	531-82-8	No	No	1.50E+00	U	4.30E-04	U					1
Furmecyclox	60568-05-0	No	No	3.00E-02	U	8.60E-06	U					1
Gadolinium	7440-54-2	No	No									1
Gallium	7440-55-3	No	No									1
Germanium	7440-56-4	No	No									1
Glufosinate, Ammonium	77182-82-2	No	No					4.00E-04	U			1
Glutaraldehyde	111-30-8	No	No							8.00E-05	U	1
Glycerol	56-81-5	No	No									1
Glycidyl	765-34-4	No	Yes					4.00E-04	U	1.00E-03	U	1
Glyphosate	1071-83-6	No	No					1.00E-01	U			1
Goal	42874-03-3	No	No					3.00E-03	U			1
Guanidine	113-00-8	No	Yes					1.00E-02	U			1
Guanidine Chloride	50-01-1	No	No					2.00E-02	U			1
Guanidine Nitrate	506-93-4	No	No									1
Guthion	86-50-0	No	No					3.00E-03	U	1.00E-02	U	1
HCDD, 1,2,3,4,6,7,8,-	35822-46-9	No	Yes	1.30E+03	U	3.80E-01	U	1.00E-06	U	4.00E-06	U	1
Haloacetic acids	NA	No	No									1
Haloxyfop, Methyl	69806-40-2	No	No					5.00E-05	U			1
Harmony	79277-27-3	No	No					1.30E-02	U			1
Heptachlor	76-44-8	No	Yes	4.50E+00	U	1.30E-03	U	5.00E-04	U			1
Heptachlor Epoxide	1024-57-3	No	Yes	9.10E+00	U	2.60E-03	U	1.30E-05	U			1
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562-39-4	No	Yes	1.30E+03	U	3.80E-01	U	7.00E-08	U	4.00E-06	U	1
Heptanal, n-	111-71-7	No	Yes									1
Heptane, N-	142-82-5	No	Yes									1
Heptanol, n-	111-70-6	No	Yes									1
Hexabromobenzene	87-82-1	No	Yes					2.00E-03	U			1
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	No	No					2.00E-04	U			1
Hexachlorobenzene	118-74-1	No	Yes	1.60E+00	U	4.60E-04	U	8.00E-04	U			1
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Furazolidone	67-45-8	0.1	1			3.23E+09	5.14E+00	1.80E+01		4.00E+00	
Furfural	98-01-1		1	6.71E+04	1.01E+04	3.23E+09					
Furium	531-82-8	0.1	1			3.23E+09	1.30E+01	4.56E+01	1.92E+06	1.01E+01	
Furmecyclox	60568-05-0	0.1	1			3.23E+09	6.52E+02	2.28E+03	9.61E+07	5.07E+02	
Gadolinium	7440-54-2		1			3.23E+09					
Gallium	7440-55-3		1			3.23E+09					
Germanium	7440-56-4		1			3.23E+09					
Glufosinate, Ammonium	77182-82-2	0.1	1			3.23E+09					
Glutaraldehyde	111-30-8	0.1	1			3.23E+09					
Glycerol	56-81-5	0.1	1			3.23E+09					
Glycidyl	765-34-4		1	1.01E+05	1.06E+05	3.23E+09					
Glyphosate	1071-83-6	0.1	1			3.23E+09					
Goal	42874-03-3	0.1	1			3.23E+09					
Guanidine	113-00-8		1	2.00E+05		3.23E+09					
Guanidine Chloride	50-01-1	0.1	1			3.23E+09					
Guanidine Nitrate	506-93-4	0.1	1			3.23E+09					
Guthion	86-50-0	0.1	1			3.23E+09					
HCDD, 1,2,3,4,6,7,8,-	35822-46-9		1	4.52E+06		3.23E+09	1.50E-02		3.04E+00	1.50E-02	
Haloacetic acids	NA	0.1	1			3.23E+09					
Haloxyfop, Methyl	69806-40-2	0.1	1			3.23E+09					
Harmony	79277-27-3	0.1	1			3.23E+09					
Heptachlor	76-44-8		1	6.62E+05		3.23E+09	4.34E+00		1.30E+02	4.20E+00	
Heptachlor Epoxide	1024-57-3		1	1.16E+06		3.23E+09	2.15E+00		1.14E+02	2.11E+00	
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9	0.14	1	2.81E+06		3.23E+09	5.01E+00	1.25E+01	6.29E+02	3.56E+00	
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562-39-4	0.03	1	1.15E+07		3.23E+09	1.50E-02	1.75E-01	7.74E+00	1.38E-02	
Heptanal, n-	111-71-7		1	1.08E+04	2.09E+02	3.23E+09					
Heptane, N-	142-82-5		1	1.23E+03	5.79E+01	3.23E+09					
Heptanol, n-	111-70-6		1	4.73E+04	3.78E+02	3.23E+09					
Hexabromobenzene	87-82-1		1	5.24E+05		3.23E+09					
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2	0.1	1			3.23E+09					
Hexachlorobenzene	118-74-1		1	9.37E+04		3.23E+09	1.22E+01		5.21E+01	9.90E+00	
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6	0.14	1	1.98E+06		3.23E+09	5.01E+00	1.25E+01	4.43E+02	3.55E+00	
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7	0.14	1	2.00E+06		3.23E+09	5.01E+00	1.25E+01	4.48E+02	3.55E+00	
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4	0.14	1	2.13E+06		3.23E+09	5.01E+00	1.25E+01	4.77E+02	3.55E+00	

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
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Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Furazolidone	67-45-8								4.00E+00 ca
Furfural	98-01-1				2.01E+04		2.94E+05	1.88E+04	1.88E+04 sat
Furium	531-82-8								1.01E+01 ca
Furmecyclox	60568-05-0								5.07E+02 ca
Gadolinium	7440-54-2								
Gallium	7440-55-3								
Germanium	7440-56-4								
Glufosinate, Ammonium	77182-82-2				2.68E+03	9.38E+03		2.08E+03	2.08E+03 nc
Glutaraldehyde	111-30-8						2.27E+07	2.27E+07	2.27E+07 max
Glycerol	56-81-5								
Glycidyl	765-34-4				2.68E+03		8.88E+03	2.06E+03	2.06E+03 nc
Glyphosate	1071-83-6				6.70E+05	2.34E+06		5.21E+05	5.21E+05 max
Goal	42874-03-3				2.01E+04	7.03E+04		1.56E+04	1.56E+04 nc
Guanidine	113-00-8				6.70E+04			6.70E+04	6.70E+04 nc
Guanidine Chloride	50-01-1				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Guanidine Nitrate	506-93-4								
Guthion	86-50-0				2.01E+04	7.03E+04	2.83E+09	1.56E+04	1.56E+04 nc
HCDD, 1,2,3,4,6,7,8,-	35822-46-9				6.70E+00		1.58E+03	6.67E+00	1.50E-02 ca
Haloacetic acids	NA								
Haloxyfop, Methyl	69806-40-2				3.35E+02	1.17E+03		2.61E+02	2.61E+02 nc
Harmony	79277-27-3				8.71E+04	3.05E+05		6.78E+04	6.78E+04 nc
Heptachlor	76-44-8				3.35E+03			3.35E+03	4.20E+00 ca
Heptachlor Epoxide	1024-57-3				8.71E+01			8.71E+01	2.11E+00 ca*
Heptachlorobiphenyl, 2,3,3',4,4',5,5'- (PCB 189)	39635-31-9				1.56E+02	3.90E+02	3.27E+05	1.11E+02	3.56E+00 ca*
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562-39-4				4.69E-01	5.47E+00	4.03E+03	4.32E-01	1.38E-02 ca*
Heptanal, n-	111-71-7								
Heptane, N-	142-82-5								
Heptanol, n-	111-70-6								
Hexabromobenzene	87-82-1				1.34E+04			1.34E+04	1.34E+04 nc
Hexabromodiphenyl ether, 2,2',4,4',5,5'- (BDE-153)	68631-49-2				1.34E+03	4.69E+03		1.04E+03	1.04E+03 nc
Hexachlorobenzene	118-74-1				5.36E+03			5.36E+03	9.90E+00 ca
Hexachlorobiphenyl, 2,3',4,4',5,5'- (PCB 167)	52663-72-6				1.56E+02	3.90E+02	2.30E+05	1.11E+02	3.55E+00 ca*
Hexachlorobiphenyl, 2,3,3',4,4',5'- (PCB 157)	69782-90-7				1.56E+02	3.90E+02	2.33E+05	1.11E+02	3.55E+00 ca*
Hexachlorobiphenyl, 2,3,3',4,4',5- (PCB 156)	38380-08-4				1.56E+02	3.90E+02	2.48E+05	1.11E+02	3.55E+00 ca*

Site-specific
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	No	Yes	3.90E+03	U	1.14E+00	U	2.33E-08	U	1.33E-06	U	1
Hexachlorobutadiene	87-68-3	No	Yes	7.80E-02	U	2.20E-05	U	1.00E-03	U			1
Hexachlorocyclohexane, Alpha-	319-84-6	No	No	6.30E+00	U	1.80E-03	U	8.00E-03	U			1
Hexachlorocyclohexane, Beta-	319-85-7	No	No	1.80E+00	U	5.30E-04	U					1
Hexachlorocyclohexane, Delta-	319-86-8	No	No									1
Hexachlorocyclohexane, Epsilon	6108-10-7	No	No									1
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	No	No	1.10E+00	U	3.10E-04	U	3.00E-04	U			1
Hexachlorocyclohexane, Technical	608-73-1	No	No	1.80E+00	U	5.10E-04	U					1
Hexachlorocyclopentadiene	77-47-4	No	Yes					6.00E-03	U	2.00E-04	U	1
Hexachlorodibenzo-p-dioxin	34465-46-8	No	No	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	39227-28-6	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
Hexachlorodibenzo-p-dioxin, Mixture	NA	No	No	6.20E+03	U	1.30E+00	U					1
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
Hexachloroethane	67-72-1	No	Yes	4.00E-02	U	1.10E-05	U	7.00E-04	U	3.00E-02	U	1
Hexachlorophene	70-30-4	No	No					3.00E-04	U			1
Hexachloropropene	1888-71-7	No	Yes									1
Hexadecanoic Acid	57-10-3	No	Yes									1
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	No	No	1.10E-01	U			3.00E-03	U			1
Hexamethylene Diisocyanate, 1,6-	822-06-0	No	Yes							1.00E-05	U	1
Hexamethylphosphoramide	680-31-9	No	No					4.00E-04	U			1
Hexane, N-	110-54-3	No	Yes					6.00E-02	U	7.00E-01	U	1
Hexanedioic Acid	124-04-9	No	No					2.00E+00	U			1
Hexanol, n-	111-27-3	No	Yes									1
Hexanone, 2-	591-78-6	No	Yes					5.00E-03	U	3.00E-02	U	1
Hexazinone	51235-04-2	No	No					3.30E-02	U			1
HpCDD, 2,3,7,8-	37871-00-4	No	Yes	1.30E+03	U	3.80E-01	U	7.00E-08	U	4.00E-06	U	1
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	No	Yes	1.30E+03	U	3.80E-01	U	7.00E-08	U	4.00E-06	U	1
HpCDF, 2,3,7,8-	38998-75-3	No	Yes	1.30E+03	U	3.80E-01	U	7.00E-08	U	4.00E-06	U	1
HxCDD, 1,2,3,6,7,8-	57653-85-7	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
HxCDD, 1,2,3,7,8,9-	19408-74-3	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
HxCDF, 1,2,3,6,7,8-	57117-44-9	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
HxCDF, 1,2,3,7,8,9-	72918-21-9	No	No	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
HxCDF, 2,3,4,6,7,8-	60851-34-5	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
HxCDF, 2,3,7,8-	55684-94-1	No	No	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
Hydrazine	302-01-2	No	Yes	3.00E+00	U	4.90E-03	U			3.00E-05	U	1

Site-specific
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6	0.14	1	1.98E+06		3.23E+09	5.01E-03	1.25E-02	4.43E-01	3.55E-03	
Hexachlorobutadiene	87-68-3		1	1.49E+04	1.68E+01	3.23E+09	2.51E+02		1.73E+02	1.02E+02	
Hexachlorocyclohexane, Alpha-	319-84-6	0.1	1			3.23E+09	3.10E+00	1.09E+01	4.59E+05	2.41E+00	
Hexachlorocyclohexane, Beta-	319-85-7	0.1	1			3.23E+09	1.09E+01	3.80E+01	1.56E+06	8.45E+00	
Hexachlorocyclohexane, Delta-	319-86-8	0.1	1			3.23E+09					
Hexachlorocyclohexane, Epsilon	6108-10-7	0.1	1			3.23E+09					
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9	0.04	1			3.23E+09	1.78E+01	1.55E+02	2.66E+06	1.59E+01	
Hexachlorocyclohexane, Technical	608-73-1	0.1	1			3.23E+09	1.09E+01	3.80E+01	1.62E+06	8.45E+00	
Hexachlorocyclopentadiene	77-47-4		1	1.18E+04	1.57E+01	3.23E+09					
Hexachlorodibenzo-p-dioxin	34465-46-8	0.03	1			3.23E+09	1.50E-03	1.75E-02	2.17E+02	1.38E-03	
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	39227-28-6	0.03	1	6.59E+06		3.23E+09	1.50E-03	1.75E-02	4.42E-01	1.38E-03	
Hexachlorodibenzo-p-dioxin, Mixture	NA	0.03	1			3.23E+09	3.15E-03	3.68E-02	6.35E+02	2.90E-03	
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	0.03	1	5.38E+06		3.23E+09	1.50E-03	1.75E-02	3.61E-01	1.38E-03	
Hexachloroethane	67-72-1		1	1.10E+04		3.23E+09	4.89E+02		2.57E+02	1.68E+02	
Hexachlorophene	70-30-4	0.1	1			3.23E+09					
Hexachloropropene	1888-71-7		1	1.48E+04	4.37E+01	3.23E+09					
Hexadecanoic Acid	57-10-3		1	7.66E+05		3.23E+09					
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	0.015	1			3.23E+09	1.78E+02	4.15E+03		1.70E+02	
Hexamethylene Diisocyanate, 1,6-	822-06-0		1	4.15E+05	5.19E+03	3.23E+09					
Hexamethylphosphoramide	680-31-9	0.1	1			3.23E+09					
Hexane, N-	110-54-3		1	1.14E+03	1.41E+02	3.23E+09					
Hexanedioic Acid	124-04-9	0.1	1			3.23E+09					
Hexanol, n-	111-27-3		1	4.03E+04	9.98E+02	3.23E+09					
Hexanone, 2-	591-78-6		1	1.83E+04	3.28E+03	3.23E+09					
Hexazinone	51235-04-2	0.1	1			3.23E+09					
HpCDD, 2,3,7,8-	37871-00-4	0.03	1	3.36E+06		3.23E+09	1.50E-02	1.75E-01	2.26E+00	1.38E-02	
HpCDF, 1,2,3,4,7,8,9-	55673-89-7	0.03	1	1.15E+07		3.23E+09	1.50E-02	1.75E-01	7.74E+00	1.38E-02	
HpCDF, 2,3,7,8-	38998-75-3	0.03	1	1.15E+07		3.23E+09	1.50E-02	1.75E-01	7.74E+00	1.38E-02	
HxCDD, 1,2,3,6,7,8-	57653-85-7	0.03	1	6.59E+06		3.23E+09	1.50E-03	1.75E-02	4.42E-01	1.38E-03	
HxCDD, 1,2,3,7,8,9-	19408-74-3	0.03	1	6.59E+06		3.23E+09	1.50E-03	1.75E-02	4.42E-01	1.38E-03	
HxCDF, 1,2,3,6,7,8-	57117-44-9	0.03	1	5.38E+06		3.23E+09	1.50E-03	1.75E-02	3.61E-01	1.38E-03	
HxCDF, 1,2,3,7,8,9-	72918-21-9	0.03	1			3.23E+09	1.50E-03	1.75E-02	2.17E+02	1.38E-03	
HxCDF, 2,3,4,6,7,8-	60851-34-5	0.03	1	5.38E+06		3.23E+09	1.50E-03	1.75E-02	3.61E-01	1.38E-03	
HxCDF, 2,3,7,8-	55684-94-1	0.03	1			3.23E+09	1.50E-03	1.75E-02	2.17E+02	1.38E-03	
Hydrazine	302-01-2		1			3.23E+09	6.52E+00		1.69E+05	6.52E+00	

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
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Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Hexachlorobiphenyl, 3,3',4,4',5,5'- (PCB 169)	32774-16-6				1.56E-01	3.90E-01	2.30E+02	1.11E-01	3.55E-03 ca*
Hexachlorobutadiene	87-68-3				6.70E+03			6.70E+03	1.02E+02 sat
Hexachlorocyclohexane, Alpha-	319-84-6				5.36E+04	1.88E+05		4.17E+04	2.41E+00 ca
Hexachlorocyclohexane, Beta-	319-85-7								8.45E+00 ca
Hexachlorocyclohexane, Delta-	319-86-8								
Hexachlorocyclohexane, Epsilon	6108-10-7								
Hexachlorocyclohexane, Gamma- (Lindane)	58-89-9				2.01E+03	1.76E+04		1.80E+03	1.59E+01 ca
Hexachlorocyclohexane, Technical	608-73-1								8.45E+00 ca
Hexachlorocyclopentadiene	77-47-4				4.02E+04		2.06E+02	2.05E+02	2.05E+02 sat
Hexachlorodibenzo-p-dioxin	34465-46-8				4.69E-02	5.47E-01	1.13E+05	4.32E-02	1.38E-03 ca*
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	39227-28-6				4.69E-02	5.47E-01	2.31E+02	4.32E-02	1.38E-03 ca*
Hexachlorodibenzo-p-dioxin, Mixture	NA								2.90E-03 ca
Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9				4.69E-02	5.47E-01	1.88E+02	4.32E-02	1.38E-03 ca*
Hexachloroethane	67-72-1				4.69E+03		2.90E+04	4.04E+03	1.68E+02 ca*
Hexachlorophene	70-30-4				2.01E+03	7.03E+03		1.56E+03	1.56E+03 nc
Hexachloropropene	1888-71-7								
Hexadecanoic Acid	57-10-3								
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4				2.01E+04	4.69E+05		1.93E+04	1.70E+02 ca
Hexamethylene Diisocyanate, 1,6-	822-06-0						3.63E+02	3.63E+02	3.63E+02 nc
Hexamethylphosphoramide	680-31-9				2.68E+03	9.38E+03		2.08E+03	2.08E+03 nc
Hexane, N-	110-54-3				4.02E+05		7.01E+04	5.97E+04	5.97E+04 sat
Hexanedioic Acid	124-04-9				1.34E+07	4.69E+07		1.04E+07	1.04E+07 max
Hexanol, n-	111-27-3								
Hexanone, 2-	591-78-6				3.35E+04		4.82E+04	1.98E+04	1.98E+04 sat
Hexazinone	51235-04-2				2.21E+05	7.74E+05		1.72E+05	1.72E+05 max
HpCDD, 2,3,7,8-	37871-00-4				4.69E-01	5.47E+00	1.18E+03	4.32E-01	1.38E-02 ca*
HpCDF, 1,2,3,4,7,8,9-	55673-89-7				4.69E-01	5.47E+00	4.03E+03	4.32E-01	1.38E-02 ca*
HpCDF, 2,3,7,8-	38998-75-3				4.69E-01	5.47E+00	4.03E+03	4.32E-01	1.38E-02 ca*
HxCDD, 1,2,3,6,7,8-	57653-85-7				4.69E-02	5.47E-01	2.31E+02	4.32E-02	1.38E-03 ca*
HxCDD, 1,2,3,7,8,9-	19408-74-3				4.69E-02	5.47E-01	2.31E+02	4.32E-02	1.38E-03 ca*
HxCDF, 1,2,3,6,7,8-	57117-44-9				4.69E-02	5.47E-01	1.88E+02	4.32E-02	1.38E-03 ca*
HxCDF, 1,2,3,7,8,9-	72918-21-9				4.69E-02	5.47E-01	1.13E+05	4.32E-02	1.38E-03 ca*
HxCDF, 2,3,4,6,7,8-	60851-34-5				4.69E-02	5.47E-01	1.88E+02	4.32E-02	1.38E-03 ca*
HxCDF, 2,3,7,8-	55684-94-1				4.69E-02	5.47E-01	1.13E+05	4.32E-02	1.38E-03 ca*
Hydrazine	302-01-2						8.50E+06	8.50E+06	6.52E+00 ca

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Hydrazine Sulfate	10034-93-2	No	No	3.00E+00	U	4.90E-03	U					1
Hydrogen Chloride	7647-01-0	No	Yes							2.00E-02	U	1
Hydrogen Cyanide	74-90-8	No	Yes					6.00E-04	U	8.00E-04	U	1
Hydrogen Fluoride	7664-39-3	No	Yes					4.00E-02	U	1.40E-02	U	1
Hydrogen Selenide	77830-70-5	No	No									1
Hydrogen Sulfate	12143-45-2	No	No									1
Hydrogen Sulfide	7783-06-4	No	Yes							2.00E-03	U	1
Hydroquinone	123-31-9	No	No	6.00E-02	U			4.00E-02	U			1
Imazalil	35554-44-0	No	No					1.30E-02	U			1
Imazaquin	81335-37-7	No	No					2.50E-01	U			1
Indeno[1,2,3-cd]pyrene	193-39-5	Yes	No	7.30E-01	U	1.10E-04	U					1
Indium	7440-74-6	No	No									1
Iodide	20461-54-5	No	No									1
Iodine	7553-56-2	No	No					1.00E-02	U			1
Iodomethane	74-88-4	No	Yes									1
Iodopropynyl Butylcarbamate (IPBC)	55406-53-6	No	No									1
Iprodione	36734-19-7	No	No					4.00E-02	U			1
Iron	7439-89-6	No	No					7.00E-01	U			1
Iron Sulfide	11126-12-8	No	No									1
Isobutyl Alcohol	78-83-1	No	Yes					3.00E-01	U			1
Isodrin	465-73-6	No	Yes									1
Isophorone	78-59-1	No	No	9.50E-04	U			2.00E-01	U	2.00E+00	U	1
Isopropalin	33820-53-0	No	Yes					1.50E-02	U			1
Isopropanol	67-63-0	No	Yes					2.00E+00	U	2.00E-01	U	1
Isopropyl Methyl Phosphonic Acid	1832-54-8	No	No					1.00E-01	U			1
Isopropyltoluene, p-	99-87-6	No	Yes									1
Isosafrole	120-58-1	No	Yes									1
Isoxaben	82558-50-7	No	No					5.00E-02	U			1
JP-4	50815-00-4	No	Yes									1
JP-5/JP-8	8002-20-6	No	Yes									1
JP-7	NA	No	Yes							3.00E-01	U	1
Kerb	23950-58-5	No	No					7.50E-02	U			1
Kerosene	8008-20-6	No	Yes									1
Lactofen	77501-63-4	No	No					2.00E-03	U			1
Lactonitrile	78-97-7	No	No									1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Hydrazine Sulfate	10034-93-2		1			3.23E+09	6.52E+00		1.69E+05	6.52E+00	
Hydrogen Chloride	7647-01-0		1			3.23E+09					
Hydrogen Cyanide	74-90-8		1	7.20E+04	1.00E+07	3.23E+09					
Hydrogen Fluoride	7664-39-3		1			3.23E+09					
Hydrogen Selenide	77830-70-5		1			3.23E+09					
Hydrogen Sulfate	12143-45-2		1			3.23E+09					
Hydrogen Sulfide	7783-06-4		1			3.23E+09					
Hydroquinone	123-31-9	0.1	1			3.23E+09	3.26E+02	1.14E+03		2.53E+02	
Imazalil	35554-44-0	0.1	1			3.23E+09					
Imazaquin	81335-37-7	0.1	1			3.23E+09					
Indeno[1,2,3-cd]pyrene	193-39-5	0.13	1			3.23E+09	9.10E+00	4.74E+01	4.10E+06	7.63E+00	
Indium	7440-74-6		1			3.23E+09					
Iodide	20461-54-5		1			3.23E+09					
Iodine	7553-56-2		1			3.23E+09					
Iodomethane	74-88-4		1	2.55E+03	3.03E+03	3.23E+09					
Iodopropynyl Butylcarbamate (IPBC)	55406-53-6	0.1	1			3.23E+09					
Iprodione	36734-19-7	0.1	1			3.23E+09					
Iron	7439-89-6		1			3.23E+09					
Iron Sulfide	11126-12-8		1			3.23E+09					
Isobutyl Alcohol	78-83-1		1	3.88E+04	1.00E+04	3.23E+09					
Isodrin	465-73-6		1	2.32E+06		3.23E+09					
Isophorone	78-59-1	0.1	1			3.23E+09	2.06E+04	7.20E+04		1.60E+04	
Isopropalin	33820-53-0		1	5.78E+05		3.23E+09					
Isopropanol	67-63-0		1	3.83E+04	1.09E+05	3.23E+09					
Isopropyl Methyl Phosphonic Acid	1832-54-8	0.1	1			3.23E+09					
Isopropyltoluene, p-	99-87-6		1	1.18E+04	1.62E+02	3.23E+09					
Isosafrole	120-58-1		1	3.42E+03	2.04E+01	3.23E+09					
Isoxaben	82558-50-7	0.1	1			3.23E+09					
JP-4	50815-00-4		1			3.23E+09					
JP-5/JP-8	8002-20-6		1			3.23E+09					
JP-7	NA		1			3.23E+09					
Kerb	23950-58-5	0.1	1			3.23E+09					
Kerosene	8008-20-6		1			3.23E+09					
Lactofen	77501-63-4	0.1	1			3.23E+09					
Lactonitrile	78-97-7	0.1	1			3.23E+09					

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Hydrazine Sulfate	10034-93-2								6.52E+00 ca
Hydrogen Chloride	7647-01-0						5.66E+09	5.66E+09	5.66E+09 max
Hydrogen Cyanide	74-90-8				4.02E+03		5.05E+03	2.24E+03	2.24E+03 nc
Hydrogen Fluoride	7664-39-3				2.68E+05		3.96E+09	2.68E+05	2.68E+05 max
Hydrogen Selenide	77830-70-5								
Hydrogen Sulfate	12143-45-2								
Hydrogen Sulfide	7783-06-4						5.66E+08	5.66E+08	5.66E+08 max
Hydroquinone	123-31-9				2.68E+05	9.38E+05		2.08E+05	2.53E+02 ca
Imazalil	35554-44-0				8.71E+04	3.05E+05		6.78E+04	6.78E+04 nc
Imazaquin	81335-37-7				1.68E+06	5.86E+06		1.30E+06	1.30E+06 max
Indeno[1,2,3-cd]pyrene	193-39-5								7.63E+00 ca
Indium	7440-74-6								
Iodide	20461-54-5								
Iodine	7553-56-2				6.70E+04			6.70E+04	6.70E+04 nc
Iodomethane	74-88-4								
Iodopropynyl Butylcarbamate (IPBC)	55406-53-6								
Iprodione	36734-19-7				2.68E+05	9.38E+05		2.08E+05	2.08E+05 max
Iron	7439-89-6				4.69E+06			4.69E+06	4.69E+06 max
Iron Sulfide	11126-12-8								
Isobutyl Alcohol	78-83-1				2.01E+06			2.01E+06	2.01E+06 sat
Isodrin	465-73-6								
Isophorone	78-59-1				1.34E+06	4.69E+06	5.66E+11	1.04E+06	1.60E+04 ca*
Isopropalin	33820-53-0				1.01E+05			1.01E+05	1.01E+05 max
Isopropanol	67-63-0				1.34E+07		6.70E+05	6.38E+05	6.38E+05 sat
Isopropyl Methyl Phosphonic Acid	1832-54-8				6.70E+05	2.34E+06		5.21E+05	5.21E+05 max
Isopropyltoluene, p-	99-87-6								
Isosafrole	120-58-1								
Isoxaben	82558-50-7				3.35E+05	1.17E+06		2.61E+05	2.61E+05 max
JP-4	50815-00-4								
JP-5/JP-8	8002-20-6								
JP-7	NA						8.50E+10	8.50E+10	8.50E+10 max
Kerb	23950-58-5				5.03E+05	1.76E+06		3.91E+05	3.91E+05 max
Kerosene	8008-20-6								
Lactofen	77501-63-4				1.34E+04	4.69E+04		1.04E+04	1.04E+04 nc
Lactonitrile	78-97-7								

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Lanthanum	7439-91-0	No	No									1
Lead Alkyls	NA	No	No									1
Lead Chromate	7758-97-6	Yes	No	5.00E-01	U	1.50E-01	U	2.00E-02	U	2.00E-04	U	0.025
Lead Phosphate	7446-27-7	No	No	8.50E-03	U	1.20E-05	U					1
Lead acetate	301-04-2	No	No	2.80E-01	U	8.00E-05	U					1
Lead and Compounds	7439-92-1	No	No									1
Lead subacetate	1335-32-6	No	No	8.50E-03	U	1.20E-05	U					1
Linuron	330-55-2	No	No					2.00E-03	U			1
Lithium	7439-93-2	No	No					2.00E-03	U			1
Lithium Perchlorate	7791-03-9	No	No					7.00E-04	U			1
Londax	83055-99-6	No	No					2.00E-01	U			1
Lutetium	7439-94-3	No	No									1
MCPA	94-74-6	No	No					5.00E-04	U			1
MCPB	94-81-5	No	No					1.00E-02	U			1
MCPP	93-65-2	No	No					1.00E-03	U			1
Magnesium	7439-95-4	No	No									1
Magnesium Chlorate	10326-21-3	No	No									1
Malathion	121-75-5	No	No					2.00E-02	U			1
Maleic Anhydride	108-31-6	No	No					1.00E-01	U	7.00E-04	U	1
Maleic Hydrazide	123-33-1	No	No					5.00E-01	U			1
Malononitrile	109-77-3	No	No					1.00E-04	U			1
Mancozeb	8018-01-7	No	No					3.00E-02	U			1
Maneb	12427-38-2	No	No					5.00E-03	U			1
Manganese (Non-diet)	7439-96-5	No	No					2.40E-02	U	5.00E-05	U	0.04
Mechlorethamine	51-75-2	No	No									1
Mephosfolan	950-10-7	No	No					9.00E-05	U			1
Mepiquat Chloride	24307-26-4	No	No					3.00E-02	U			1
Mercuric Chloride	7487-94-7	No	No					3.00E-04	U	3.00E-04	U	0.07
Mercury (elemental)	7439-97-6	No	Yes							3.00E-04	U	1
Merphos	150-50-5	No	Yes					3.00E-05	U			1
Merphos Oxide	78-48-8	No	No					3.00E-05	U			1
Metalaxyl	57837-19-1	No	No					6.00E-02	U			1
Methacrylonitrile	126-98-7	No	Yes					1.00E-04	U	3.00E-02	U	1
Methamidophos	10265-92-6	No	No					5.00E-05	U			1
Methanol	67-56-1	No	Yes					2.00E+00	U	2.00E+01	U	1

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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Lanthanum	7439-91-0		1			3.23E+09					
Lead Alkyls	NA	0.1	1			3.23E+09					
Lead Chromate	7758-97-6		1			3.23E+09	1.33E+01		3.00E+03	1.32E+01	
Lead Phosphate	7446-27-7		1			3.23E+09	2.30E+03		6.88E+07	2.30E+03	
Lead acetate	301-04-2	0.1	1			3.23E+09	6.98E+01	2.44E+02	1.03E+07	5.43E+01	
Lead and Compounds	7439-92-1		1			3.23E+09					
Lead subacetate	1335-32-6	0.1	1			3.23E+09	2.30E+03	8.05E+03	6.88E+07	1.79E+03	
Linuron	330-55-2	0.1	1			3.23E+09					
Lithium	7439-93-2		1			3.23E+09					
Lithium Perchlorate	7791-03-9		1			3.23E+09					
Londax	83055-99-6	0.1	1			3.23E+09					
Lutetium	7439-94-3		1			3.23E+09					
MCPA	94-74-6	0.1	1			3.23E+09					
MCPB	94-81-5	0.1	1			3.23E+09					
MCPP	93-65-2	0.1	1			3.23E+09					
Magnesium	7439-95-4		1			3.23E+09					
Magnesium Chlorate	10326-21-3		1			3.23E+09					
Malathion	121-75-5	0.1	1			3.23E+09					
Maleic Anhydride	108-31-6	0.1	1			3.23E+09					
Maleic Hydrazide	123-33-1	0.1	1			3.23E+09					
Malononitrile	109-77-3	0.1	1			3.23E+09					
Mancozeb	8018-01-7	0.1	1			3.23E+09					
Maneb	12427-38-2	0.1	1			3.23E+09					
Manganese (Non-diet)	7439-96-5		1			3.23E+09					
Mechlorethamine	51-75-2	0.1	1			3.23E+09					
Mephosfolan	950-10-7	0.1	1			3.23E+09					
Mepiquat Chloride	24307-26-4	0.1	1			3.23E+09					
Mercuric Chloride	7487-94-7		1			3.23E+09					
Mercury (elemental)	7439-97-6		1	4.16E+04	3.13E+00	3.23E+09					
Merphos	150-50-5		1	2.67E+06		3.23E+09					
Merphos Oxide	78-48-8	0.1	1			3.23E+09					
Metalaxyl	57837-19-1	0.1	1			3.23E+09					
Methacrylonitrile	126-98-7		1	9.38E+03	4.59E+03	3.23E+09					
Methamidophos	10265-92-6	0.1	1			3.23E+09					
Methanol	67-56-1		1	4.01E+04	1.06E+05	3.23E+09					

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Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Lanthanum	7439-91-0								
Lead Alkyls	NA								
Lead Chromate	7758-97-6				1.34E+05		5.66E+07	1.34E+05	1.32E+01 ca
Lead Phosphate	7446-27-7								2.30E+03 ca
Lead acetate	301-04-2								5.43E+01 ca
Lead and Compounds	7439-92-1			4.00E+02					4.00E+02 nc
Lead subacetate	1335-32-6								1.79E+03 ca
Linuron	330-55-2				1.34E+04	4.69E+04		1.04E+04	1.04E+04 nc
Lithium	7439-93-2				1.34E+04			1.34E+04	1.34E+04 nc
Lithium Perchlorate	7791-03-9				4.69E+03			4.69E+03	4.69E+03 nc
Londax	83055-99-6				1.34E+06	4.69E+06		1.04E+06	1.04E+06 max
Lutetium	7439-94-3								
MCPA	94-74-6				3.35E+03	1.17E+04		2.61E+03	2.61E+03 nc
MCPB	94-81-5				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
MCPP	93-65-2				6.70E+03	2.34E+04		5.21E+03	5.21E+03 nc
Magnesium	7439-95-4								
Magnesium Chlorate	10326-21-3								
Malathion	121-75-5				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Maleic Anhydride	108-31-6				6.70E+05	2.34E+06	1.98E+08	5.20E+05	5.20E+05 max
Maleic Hydrazide	123-33-1				3.35E+06	1.17E+07		2.61E+06	2.61E+06 max
Malononitrile	109-77-3				6.70E+02	2.34E+03		5.21E+02	5.21E+02 nc
Mancozeb	8018-01-7				2.01E+05	7.03E+05		1.56E+05	1.56E+05 max
Maneb	12427-38-2				3.35E+04	1.17E+05		2.61E+04	2.61E+04 nc
Manganese (Non-diet)	7439-96-5				1.61E+05		1.42E+07	1.59E+05	1.59E+05 max
Mechlorethamine	51-75-2								
Mephosfolan	950-10-7				6.03E+02	2.11E+03		4.69E+02	4.69E+02 nc
Mepiquat Chloride	24307-26-4				2.01E+05	7.03E+05		1.56E+05	1.56E+05 max
Mercuric Chloride	7487-94-7				2.01E+03		8.50E+07	2.01E+03	2.01E+03 nc
Mercury (elemental)	7439-97-6						1.09E+03	1.09E+03	1.09E+03 sat
Merphos	150-50-5				2.01E+02			2.01E+02	2.01E+02 nc
Merphos Oxide	78-48-8				2.01E+02	7.03E+02		1.56E+02	1.56E+02 nc
Metalaxyl	57837-19-1				4.02E+05	1.41E+06		3.13E+05	3.13E+05 max
Methacrylonitrile	126-98-7				6.70E+02		2.46E+04	6.52E+02	6.52E+02 nc
Methamidophos	10265-92-6				3.35E+02	1.17E+03		2.61E+02	2.61E+02 nc
Methanol	67-56-1				1.34E+07		7.02E+07	1.13E+07	1.13E+07 sat

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Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Methapyrilene	91-80-5	No	No									1
Methidathion	950-37-8	No	No					1.00E-03	U			1
Methomyl	16752-77-5	No	No					2.50E-02	U			1
Methoxy-5-nitroaniline, 2-	99-59-2	No	No	4.90E-02	U	1.40E-05	U					1
Methoxychlor	72-43-5	No	No					5.00E-03	U			1
Methoxyethanol Acetate, 2-	110-49-6	No	Yes					8.00E-03	U	1.00E-03	U	1
Methoxyethanol, 2-	109-86-4	No	Yes					5.00E-03	U	2.00E-02	U	1
Methyl Acetate	79-20-9	No	Yes					1.00E+00	U			1
Methyl Acrylate	96-33-3	No	Yes					3.00E-02	U	2.00E-02	U	1
Methyl Ethyl Ketone (2-Butanone)	78-93-3	No	Yes					6.00E-01	U	5.00E+00	U	1
Methyl Hydrazine	60-34-4	No	Yes			1.00E-03	U	1.00E-03	U	2.00E-05	U	1
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1	No	Yes					8.00E-02	U	3.00E+00	U	1
Methyl Isocyanate	624-83-9	No	Yes							1.00E-03	U	1
Methyl Mercaptan	74-93-1	No	Yes									1
Methyl Mercury	22967-92-6	No	No					1.00E-04	U			1
Methyl Methacrylate	80-62-6	No	Yes					1.40E+00	U	7.00E-01	U	1
Methyl Parathion	298-00-0	No	No					2.50E-04	U			1
Methyl Phosphonic Acid	993-13-5	No	No					6.00E-02	U			1
Methyl Styrene (Mixed Isomers)	25013-15-4	No	Yes					6.00E-03	U	4.00E-02	U	1
Methyl dicyclohexylamine, n-	7560-83-0	No	Yes									1
Methyl methanesulfonate	66-27-3	No	No	9.90E-02	U	2.80E-05	U					1
Methyl tert-Butyl Ether (MTBE)	1634-04-4	No	Yes	1.80E-03	U	2.60E-07	U			3.00E+00	U	1
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	No	No					3.00E-04	U			1
Methyl-2-Pentanol, 4-	108-11-2	No	Yes									1
Methyl-5-Nitroaniline, 2-	99-55-8	No	No	9.00E-03	U			2.00E-02	U			1
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	No	No	8.30E+00	U	2.40E-03	U					1
Methylaniline Hydrochloride, 2-	636-21-5	No	No	1.30E-01	U	3.70E-05	U					1
Methylarsonic acid	124-58-3	No	No					1.00E-02	U			1
Methylaziridine, 2-	75-55-8	No	Yes									1
Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7	No	No					2.00E-04	U			1
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	No	No	1.00E-01	U			3.00E-04	U			1
Methylcholanthrene, 3-	56-49-5	Yes	No	2.20E+01	U	6.30E-03	U					1
Methylcyclohexane	108-87-2	No	Yes									1
Methylcyclohexylamine, n-	100-60-7	No	Yes									1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Methapyrilene	91-80-5	0.1	1			3.23E+09					
Methidathion	950-37-8	0.1	1			3.23E+09					
Methomyl	16752-77-5	0.1	1			3.23E+09					
Methoxy-5-nitroaniline, 2-	99-59-2	0.1	1			3.23E+09	3.99E+02	1.40E+03	5.90E+07	3.10E+02	
Methoxychlor	72-43-5	0.1	1			3.23E+09					
Methoxyethanol Acetate, 2-	110-49-6		1	1.71E+05	1.15E+05	3.23E+09					
Methoxyethanol, 2-	109-86-4		1	1.39E+05	1.06E+05	3.23E+09					
Methyl Acetate	79-20-9		1	1.12E+04	2.90E+04	3.23E+09					
Methyl Acrylate	96-33-3		1	9.62E+03	6.75E+03	3.23E+09					
Methyl Ethyl Ketone (2-Butanone)	78-93-3		1	1.68E+04	2.84E+04	3.23E+09					
Methyl Hydrazine	60-34-4		1	2.16E+05	1.80E+05	3.23E+09			5.51E+01	5.51E+01	
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1		1	1.46E+04	3.36E+03	3.23E+09					
Methyl Isocyanate	624-83-9		1	6.08E+03	1.67E+04	3.23E+09					
Methyl Mercaptan	74-93-1		1	2.46E+03	3.13E+03	3.23E+09					
Methyl Mercury	22967-92-6		1			3.23E+09					
Methyl Methacrylate	80-62-6		1	8.75E+03	2.36E+03	3.23E+09					
Methyl Parathion	298-00-0	0.1	1			3.23E+09					
Methyl Phosphonic Acid	993-13-5	0.1	1			3.23E+09					
Methyl Styrene (Mixed Isomers)	25013-15-4		1	1.65E+04	3.93E+02	3.23E+09					
Methyl dicyclohexylamine, n-	7560-83-0		1	6.54E+04		3.23E+09					
Methyl methanesulfonate	66-27-3	0.1	1			3.23E+09	1.97E+02	6.91E+02	2.95E+07	1.54E+02	
Methyl tert-Butyl Ether (MTBE)	1634-04-4		1	6.76E+03	8.88E+03	3.23E+09	1.09E+04		6.65E+03	4.12E+03	
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2	0.1	1			3.23E+09					
Methyl-2-Pentanol, 4-	108-11-2		1	2.37E+04	2.45E+03	3.23E+09					
Methyl-5-Nitroaniline, 2-	99-55-8	0.1	1			3.23E+09	2.17E+03	7.60E+03		1.69E+03	
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7	0.1	1			3.23E+09	2.36E+00	8.24E+00	3.44E+05	1.83E+00	
Methylaniline Hydrochloride, 2-	636-21-5	0.1	1			3.23E+09	1.50E+02	5.26E+02	2.23E+07	1.17E+02	
Methylarsonic acid	124-58-3	0.1	1			3.23E+09					
Methylaziridine, 2-	75-55-8		1	4.41E+04	1.87E+05	3.23E+09					
Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7	0.1	1			3.23E+09					
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9	0.1	1			3.23E+09	1.95E+02	6.84E+02		1.52E+02	
Methylcholanthrene, 3-	56-49-5	0.1	1			3.23E+09	3.02E-01	2.05E+00	7.15E+04	2.63E-01	
Methylcyclohexane	108-87-2		1	1.37E+03	6.77E+01	3.23E+09					
Methylcyclohexylamine, n-	100-60-7		1	4.39E+04	2.81E+04	3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Methapyrilene	91-80-5								
Methidathion	950-37-8				6.70E+03	2.34E+04		5.21E+03	5.21E+03 nc
Methomyl	16752-77-5				1.68E+05	5.86E+05		1.30E+05	1.30E+05 max
Methoxy-5-nitroaniline, 2-	99-59-2								3.10E+02 ca
Methoxychlor	72-43-5				3.35E+04	1.17E+05		2.61E+04	2.61E+04 nc
Methoxyethanol Acetate, 2-	110-49-6				5.36E+04		1.50E+04	1.17E+04	1.17E+04 nc
Methoxyethanol, 2-	109-86-4				3.35E+04		2.44E+05	2.95E+04	2.95E+04 nc
Methyl Acetate	79-20-9				6.70E+06			6.70E+06	6.70E+06 sat
Methyl Acrylate	96-33-3				2.01E+05		1.68E+04	1.55E+04	1.55E+04 sat
Methyl Ethyl Ketone (2-Butanone)	78-93-3				4.02E+06		7.36E+06	2.60E+06	2.60E+06 sat
Methyl Hydrazine	60-34-4				6.70E+03		3.78E+02	3.58E+02	5.51E+01 ca**
Methyl Isobutyl Ketone (4-methyl-2-pentanone)	108-10-1				5.36E+05		3.83E+06	4.70E+05	4.70E+05 sat
Methyl Isocyanate	624-83-9						5.32E+02	5.32E+02	5.32E+02 nc
Methyl Mercaptan	74-93-1								
Methyl Mercury	22967-92-6				6.70E+02			6.70E+02	6.70E+02 nc
Methyl Methacrylate	80-62-6				9.38E+06		5.36E+05	5.07E+05	5.07E+05 sat
Methyl Parathion	298-00-0				1.68E+03	5.86E+03		1.30E+03	1.30E+03 nc
Methyl Phosphonic Acid	993-13-5				4.02E+05	1.41E+06		3.13E+05	3.13E+05 max
Methyl Styrene (Mixed Isomers)	25013-15-4				4.02E+04		5.80E+04	2.37E+04	2.37E+04 sat
Methyl dicyclohexylamine, n-	7560-83-0								
Methyl methanesulfonate	66-27-3								1.54E+02 ca
Methyl tert-Butyl Ether (MTBE)	1634-04-4						1.78E+06	1.78E+06	4.12E+03 ca
Methyl-1,4-benzenediamine dihydrochloride, 2-	615-45-2				2.01E+03	7.03E+03		1.56E+03	1.56E+03 nc
Methyl-2-Pentanol, 4-	108-11-2								
Methyl-5-Nitroaniline, 2-	99-55-8				1.34E+05	4.69E+05		1.04E+05	1.69E+03 ca*
Methyl-N-nitro-N-nitrosoguanidine, N-	70-25-7								1.83E+00 ca
Methylaniline Hydrochloride, 2-	636-21-5								1.17E+02 ca
Methylarsonic acid	124-58-3				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Methylaziridine, 2-	75-55-8								
Methylbenzene,1-4-diamine monohydrochloride, 2-	74612-12-7				1.34E+03	4.69E+03		1.04E+03	1.04E+03 nc
Methylbenzene-1,4-diamine sulfate, 2-	615-50-9				2.01E+03	7.03E+03		1.56E+03	1.52E+02 ca*
Methylcholanthrene, 3-	56-49-5								2.63E-01 ca
Methylcyclohexane	108-87-2								
Methylcyclohexylamine, n-	100-60-7								

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Methylcyclopentane	96-37-7	No	Yes									1
Methylene Chloride	75-09-2	Yes	Yes	2.00E-03	U	1.00E-08	U	6.00E-03	U	6.00E-01	U	1
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	Yes	No	1.00E-01	U	4.30E-04	U	2.00E-03	U			1
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	No	No	4.60E-02	U	1.30E-05	U					1
Methylenebisbenzenamine, 4,4'-	101-77-9	No	No	1.60E+00	U	4.60E-04	U			2.00E-02	U	1
Methylenediphenyl Diisocyanate	101-68-8	No	No							6.00E-04	U	1
Methylisothiocyanate	556-61-6	No	Yes									1
Methylnaphthalene	1321-94-4	No	Yes									1
Methylnaphthalene, 1-	90-12-0	No	Yes	2.90E-02	U			7.00E-02	U			1
Methylnaphthalene, 2-	91-57-6	No	Yes					4.00E-03	U			1
Methylstyrene, Alpha-	98-83-9	No	Yes					7.00E-02	U			1
Methyltriethyl Lead	1762-28-3	No	Yes									1
Metolachlor	51218-45-2	No	No					1.50E-01	U			1
Metribuzin	21087-64-9	No	No					2.50E-02	U			1
Mineral oils	8012-95-1	No	Yes					3.00E+00	U			1
Mirex	2385-85-5	No	Yes	1.80E+01	U	5.10E-03	U	2.00E-04	U			1
Molinate	2212-67-1	No	No					2.00E-03	U			1
Molybdenum	7439-98-7	No	No					5.00E-03	U			1
Monoaluminum phosphate	13530-50-2	No	No					4.86E+01	U			1
Monoammonium phosphate	7722-76-1	No	No					4.86E+01	U			1
Monobutyltin Compounds	NA	No	No									1
Monocalcium phosphate	7758-23-8	No	No					4.86E+01	U			1
Monochloramine	10599-90-3	No	No					1.00E-01	U			1
Monochlorobutanes	25154-42-1	No	No									1
Monochlorophenols (total)	NA	No	No									1
Monocyclic aromatic hydrocarbons (total)	NA	No	No									1
Monomagnesium phosphate	7757-86-0	No	No					4.86E+01	U			1
Monomethylaniline	100-61-8	No	No					2.00E-03	U			1
Monopotassium phosphate	7778-77-0	No	No					4.86E+01	U			1
Monosodium phosphate	7558-80-7	No	No					4.86E+01	U			1
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	No	No					3.00E-04	U			1
N-Methyl dithiocarbamate	137-42-8	No	No									1
Naled	300-76-5	No	Yes					2.00E-03	U			1
Naphtha, High Flash Aromatic (HFAN)	64742-95-6	No	Yes					3.00E-02	U	1.00E-01	U	1
Naphthalene	91-20-3	No	Yes			3.40E-05	U	2.00E-02	U	3.00E-03	U	1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Methylcyclopentane	96-37-7		1	1.22E+03	1.54E+02	3.23E+09					
Methylene Chloride	75-09-2		1	3.02E+03	3.32E+03	3.23E+09	3.32E+03		4.21E+04	3.08E+03	
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4	0.1	1			3.23E+09	6.64E+01	4.50E+02	1.05E+06	5.79E+01	
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1	0.1	1			3.23E+09	4.25E+02	1.49E+03	6.35E+07	3.30E+02	
Methylenebisbenzenamine, 4,4'-	101-77-9	0.1	1			3.23E+09	1.22E+01	4.27E+01	1.80E+06	9.50E+00	
Methylenediphenyl Diisocyanate	101-68-8	0.1	1			3.23E+09					
Methylisothiocyanate	556-61-6		1	2.04E+04		3.23E+09					
Methylnaphthalene	1321-94-4		1	8.08E+04		3.23E+09					
Methylnaphthalene, 1-	90-12-0	0.13	1	8.09E+04		3.23E+09	6.74E+02	1.81E+03		4.91E+02	
Methylnaphthalene, 2-	91-57-6	0.13	1	8.00E+04		3.23E+09					
Methylstyrene, Alpha-	98-83-9		1	1.77E+04	5.00E+02	3.23E+09					
Methyltriethyl Lead	1762-28-3		1	2.24E+03	4.81E+03	3.23E+09					
Metolachlor	51218-45-2	0.1	1			3.23E+09					
Metribuzin	21087-64-9	0.1	1			3.23E+09					
Mineral oils	8012-95-1		1	1.90E+03	3.41E-01	3.23E+09					
Mirex	2385-85-5		1	1.18E+06		3.23E+09	1.09E+00		5.92E+01	1.07E+00	
Molinate	2212-67-1	0.1	1			3.23E+09					
Molybdenum	7439-98-7		1			3.23E+09					
Monoaluminum phosphate	13530-50-2		1			3.23E+09					
Monoammonium phosphate	7722-76-1		1			3.23E+09					
Monobutyltin Compounds	NA	0.1	1			3.23E+09					
Monocalcium phosphate	7758-23-8		1			3.23E+09					
Monochloramine	10599-90-3		1			3.23E+09					
Monochlorobutanes	25154-42-1	0.1	1			3.23E+09					
Monochlorophenols (total)	NA	0.1	1			3.23E+09					
Monocyclic aromatic hydrocarbons (total)	NA	0.1	1			3.23E+09					
Monomagnesium phosphate	7757-86-0		1			3.23E+09					
Monomethylaniline	100-61-8	0.1	1			3.23E+09					
Monopotassium phosphate	7778-77-0		1			3.23E+09					
Monosodium phosphate	7558-80-7		1			3.23E+09					
N,N'-Diphenyl-1,4-benzenediamine	74-31-7	0.1	1			3.23E+09					
N-Methyl dithiocarbamate	137-42-8	0.1	1			3.23E+09					
Naled	300-76-5		1	7.87E+04		3.23E+09					
Naphtha, High Flash Aromatic (HFAN)	64742-95-6		1			3.23E+09					
Naphthalene	91-20-3	0.13	1	6.38E+04		3.23E+09			4.79E+02	4.79E+02	

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Methylcyclopentane	96-37-7								
Methylene Chloride	75-09-2				4.02E+04		1.59E+05	3.21E+04	3.08E+03 ca*
Methylene-bis(2-chloroaniline), 4,4'-	101-14-4				1.34E+04	4.69E+04		1.04E+04	5.79E+01 ca
Methylene-bis(N,N-dimethyl) Aniline, 4,4'-	101-61-1								3.30E+02 ca
Methylenebisbenzenamine, 4,4'-	101-77-9						5.66E+09	5.66E+09	9.50E+00 ca
Methylenediphenyl Diisocyanate	101-68-8						1.70E+08	1.70E+08	1.70E+08 max
Methylisothiocyanate	556-61-6								
Methylnaphthalene	1321-94-4								
Methylnaphthalene, 1-	90-12-0				4.69E+05	1.26E+06		3.42E+05	4.91E+02 ca
Methylnaphthalene, 2-	91-57-6				2.68E+04	7.22E+04		1.95E+04	1.95E+04 nc
Methylstyrene, Alpha-	98-83-9				4.69E+05			4.69E+05	4.69E+05 sat
Methyltriethyl Lead	1762-28-3								
Metolachlor	51218-45-2				1.01E+06	3.52E+06		7.82E+05	7.82E+05 max
Metribuzin	21087-64-9				1.68E+05	5.86E+05		1.30E+05	1.30E+05 max
Mineral oils	8012-95-1				2.01E+07			2.01E+07	2.01E+07 sat
Mirex	2385-85-5				1.34E+03			1.34E+03	1.07E+00 ca
Molinate	2212-67-1				1.34E+04	4.69E+04		1.04E+04	1.04E+04 nc
Molybdenum	7439-98-7				3.35E+04			3.35E+04	3.35E+04 nc
Monoaluminum phosphate	13530-50-2				3.26E+08			3.26E+08	3.26E+08 max
Monoammonium phosphate	7722-76-1				3.26E+08			3.26E+08	3.26E+08 max
Monobutyltin Compounds	NA								
Monocalcium phosphate	7758-23-8				3.26E+08			3.26E+08	3.26E+08 max
Monochloramine	10599-90-3				6.70E+05			6.70E+05	6.70E+05 max
Monochlorobutanes	25154-42-1								
Monochlorophenols (total)	NA								
Monocyclic aromatic hydrocarbons (total)	NA								
Monomagnesium phosphate	7757-86-0				3.26E+08			3.26E+08	3.26E+08 max
Monomethylaniline	100-61-8				1.34E+04	4.69E+04		1.04E+04	1.04E+04 nc
Monopotassium phosphate	7778-77-0				3.26E+08			3.26E+08	3.26E+08 max
Monosodium phosphate	7558-80-7				3.26E+08			3.26E+08	3.26E+08 max
N,N'-Diphenyl-1,4-benzenediamine	74-31-7				2.01E+03	7.03E+03		1.56E+03	1.56E+03 nc
N-Methyl dithiocarbamate	137-42-8								
Naled	300-76-5				1.34E+04			1.34E+04	1.34E+04 nc
Naphtha, High Flash Aromatic (HFAN)	64742-95-6				2.01E+05		2.83E+10	2.01E+05	2.01E+05 max
Naphthalene	91-20-3				1.34E+05	3.61E+05	1.68E+04	1.43E+04	4.79E+02 ca*

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Naphthol, 2-	135-19-3	No	No									1
Naphthoquinone, 1,4-	130-15-4	No	No									1
Naphthylamine, 1-	134-32-7	No	No									1
Naphthylamine, 2-	91-59-8	No	No	1.80E+00	U	0.00E+00	U					1
Napropamide	15299-99-7	No	No					1.00E-01	U			1
Neodymium Chloride (Stable, Nonradioactive)	10024-93-8	No	No									1
Niagara Blue 4B	2429-74-5	No	No									1
Nickel Acetate	373-02-4	No	No			2.60E-04	U	1.10E-02	U	1.40E-05	U	1
Nickel Carbonate	3333-67-3	No	No			2.60E-04	U	1.10E-02	U	1.40E-05	U	1
Nickel Carbonyl	13463-39-3	No	Yes			2.60E-04	U	1.10E-02	U	1.40E-05	U	1
Nickel Hydroxide	12054-48-7	No	No			2.60E-04	U	1.10E-02	U	1.40E-05	U	0.04
Nickel Oxide	1313-99-1	No	No			2.60E-04	U	1.10E-02	U	2.00E-05	U	0.04
Nickel Refinery Dust	NA	No	No			2.40E-04	U	1.10E-02	U	1.40E-05	U	0.04
Nickel Soluble Salts	7440-02-0	No	No			2.60E-04	U	2.00E-02	U	9.00E-05	U	0.04
Nickel Subsulfide	12035-72-2	No	No	1.70E+00	U	4.80E-04	U	1.10E-02	U	1.40E-05	U	0.04
Nickelocene	1271-28-9	No	No			2.60E-04	U	1.10E-02	U	1.40E-05	U	1
Nicotinonitrile	100-54-9	No	No									1
Niobium	7440-03-1	No	No									1
Nitrapyrin	1929-82-4	No	Yes									1
Nitrate	14797-55-8	No	No					1.60E+00	U			1
Nitrate + Nitrite (as N)	NA	No	No									1
Nitric Acid	7697-37-2	No	No									1
Nitric Oxide	10102-43-9	No	Yes									1
Nitrite	14797-65-0	No	No					1.00E-01	U			1
Nitroaniline, 2-	88-74-4	No	No					1.00E-02	U	5.00E-05	U	1
Nitroaniline, 3-	99-09-2	No	No									1
Nitroaniline, 4-	100-01-6	No	No	2.00E-02	U			4.00E-03	U	6.00E-03	U	1
Nitrobenzene	98-95-3	No	Yes			4.00E-05	U	2.00E-03	U	9.00E-03	U	1
Nitrobiphenyl, 4-	92-93-3	No	No									1
Nitrocellulose	9004-70-0	No	No					3.00E+03	U			1
Nitrodiphenylamine, 2-	119-75-5	No	No									1
Nitrofurantoin	67-20-9	No	No					7.00E-02	U			1
Nitrofurazone	59-87-0	No	No	1.30E+00	U	3.70E-04	U					1
Nitrogen Dioxide	10102-44-0	No	Yes									1
Nitroglycerin	55-63-0	No	No	1.70E-02	U			1.00E-04	U			1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Naphthol, 2-	135-19-3	0.1	1			3.23E+09					
Naphthoquinone, 1,4-	130-15-4	0.1	1			3.23E+09					
Naphthylamine, 1-	134-32-7	0.1	1			3.23E+09					
Naphthylamine, 2-	91-59-8	0.1	1			3.23E+09	1.09E+01	3.80E+01		8.45E+00	
Napropamide	15299-99-7	0.1	1			3.23E+09					
Neodymium Chloride (Stable, Nonradioactive)	10024-93-8		1			3.23E+09					
Niagara Blue 4B	2429-74-5	0.1	1			3.23E+09					
Nickel Acetate	373-02-4	0.1	1			3.23E+09			3.18E+06	3.18E+06	
Nickel Carbonate	3333-67-3	0.1	1			3.23E+09			3.18E+06	3.18E+06	
Nickel Carbonyl	13463-39-3		1			3.23E+09			3.18E+06	3.18E+06	
Nickel Hydroxide	12054-48-7		1			3.23E+09			3.18E+06	3.18E+06	
Nickel Oxide	1313-99-1		1			3.23E+09			3.18E+06	3.18E+06	
Nickel Refinery Dust	NA		1			3.23E+09			3.44E+06	3.44E+06	
Nickel Soluble Salts	7440-02-0		1			3.23E+09			3.18E+06	3.18E+06	
Nickel Subsulfide	12035-72-2		1			3.23E+09	1.15E+01		1.72E+06	1.15E+01	
Nickelocene	1271-28-9	0.1	1			3.23E+09			3.18E+06	3.18E+06	
Nicotinonitrile	100-54-9	0.1	1			3.23E+09					
Niobium	7440-03-1		1			3.23E+09					
Nitrapyrin	1929-82-4		1	3.05E+05		3.23E+09					
Nitrate	14797-55-8		1			3.23E+09					
Nitrate + Nitrite (as N)	NA		1			3.23E+09					
Nitric Acid	7697-37-2	0.1	1			3.23E+09					
Nitric Oxide	10102-43-9		1			3.23E+09					
Nitrite	14797-65-0		1			3.23E+09					
Nitroaniline, 2-	88-74-4	0.1	1			3.23E+09					
Nitroaniline, 3-	99-09-2	0.1	1			3.23E+09					
Nitroaniline, 4-	100-01-6	0.1	1			3.23E+09	9.77E+02	3.42E+03		7.60E+02	
Nitrobenzene	98-95-3		1	1.01E+05	3.04E+03	3.23E+09			6.44E+02	6.44E+02	
Nitrobiphenyl, 4-	92-93-3	0.1	1			3.23E+09					
Nitrocellulose	9004-70-0	0.1	1			3.23E+09					
Nitrodiphenylamine, 2-	119-75-5	0.1	1			3.23E+09					
Nitrofurantoin	67-20-9	0.1	1			3.23E+09					
Nitrofurazone	59-87-0	0.1	1			3.23E+09	1.50E+01	5.26E+01	2.23E+06	1.17E+01	
Nitrogen Dioxide	10102-44-0		1			3.23E+09					
Nitroglycerin	55-63-0	0.1	1			3.23E+09	1.15E+03	4.02E+03		8.94E+02	

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Naphthol, 2-	135-19-3								
Naphthoquinone, 1,4-	130-15-4								
Naphthylamine, 1-	134-32-7								
Naphthylamine, 2-	91-59-8								8.45E+00 ca
Napropamide	15299-99-7				6.70E+05	2.34E+06		5.21E+05	5.21E+05 max
Neodymium Chloride (Stable, Nonradioactive)	10024-93-8								
Niagara Blue 4B	2429-74-5								
Nickel Acetate	373-02-4				7.37E+04	2.58E+05	3.96E+06	5.65E+04	5.65E+04 nc
Nickel Carbonate	3333-67-3				7.37E+04	2.58E+05	3.96E+06	5.65E+04	5.65E+04 nc
Nickel Carbonyl	13463-39-3				7.37E+04		3.96E+06	7.24E+04	7.24E+04 nc
Nickel Hydroxide	12054-48-7				7.37E+04		3.96E+06	7.24E+04	7.24E+04 nc
Nickel Oxide	1313-99-1				7.37E+04		5.66E+06	7.28E+04	7.28E+04 nc
Nickel Refinery Dust	NA				7.37E+04		3.96E+06	7.24E+04	7.24E+04 nc
Nickel Soluble Salts	7440-02-0				1.34E+05		2.55E+07	1.33E+05	1.33E+05 max
Nickel Subsulfide	12035-72-2				7.37E+04		3.96E+06	7.24E+04	1.15E+01 ca
Nickelocene	1271-28-9				7.37E+04	2.58E+05	3.96E+06	5.65E+04	5.65E+04 nc
Nicotinonitrile	100-54-9								
Niobium	7440-03-1								
Nitrapyrin	1929-82-4								
Nitrate	14797-55-8				1.07E+07			1.07E+07	1.07E+07 max
Nitrate + Nitrite (as N)	NA								
Nitric Acid	7697-37-2								
Nitric Oxide	10102-43-9								
Nitrite	14797-65-0				6.70E+05			6.70E+05	6.70E+05 max
Nitroaniline, 2-	88-74-4				6.70E+04	2.34E+05	1.42E+07	5.19E+04	5.19E+04 nc
Nitroaniline, 3-	99-09-2								
Nitroaniline, 4-	100-01-6				2.68E+04	9.38E+04	1.70E+09	2.08E+04	7.60E+02 ca*
Nitrobenzene	98-95-3				1.34E+04		7.95E+04	1.15E+04	6.44E+02 ca*
Nitrobiphenyl, 4-	92-93-3								
Nitrocellulose	9004-70-0				2.01E+10	7.03E+10		1.56E+10	1.56E+10 max
Nitrodiphenylamine, 2-	119-75-5								
Nitrofurantoin	67-20-9				4.69E+05	1.64E+06		3.65E+05	3.65E+05 max
Nitrofurazone	59-87-0								1.17E+01 ca
Nitrogen Dioxide	10102-44-0								
Nitroglycerin	55-63-0				6.70E+02	2.34E+03		5.21E+02	5.21E+02 nc

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Nitroguanidine	556-88-7	No	No					1.00E-01	U			1
Nitromethane	75-52-5	No	Yes			8.80E-06	U			5.00E-03	U	1
Nitrophenol, 2-	88-75-5	No	Yes									1
Nitrophenol, 2-amino-4-	99-57-0	No	No									1
Nitrophenol, 3-	554-84-7	No	No									1
Nitrophenol, 4-	100-02-7	No	No									1
Nitrophenol, 4-amino-2-	119-34-6	No	No									1
Nitropropane, 2-	79-46-9	No	Yes			2.70E-03	U			2.00E-02	U	1
Nitropyrene, 4-	57835-92-4	No	No	1.20E+00	U	1.10E-04	U					1
Nitroquinoline-1-oxide. 4-	56-57-5	No	No									1
Nitroso-N-ethylurea, N-	759-73-9	Yes	No	2.70E+01	U	7.70E-03	U					1
Nitroso-N-methylurea, N-	684-93-5	Yes	No	1.20E+02	U	3.40E-02	U					1
Nitroso-di-N-butylamine, N-	924-16-3	No	Yes	5.40E+00	U	1.60E-03	U					1
Nitroso-di-N-propylamine, N-	621-64-7	No	No	7.00E+00	U	2.00E-03	U					1
Nitrosodiethanolamine, N-	1116-54-7	No	No	2.80E+00	U	8.00E-04	U					1
Nitrosodiethylamine, N-	55-18-5	Yes	No	1.50E+02	U	4.30E-02	U					1
Nitrosodimethylamine, N-	62-75-9	Yes	Yes	5.10E+01	U	1.40E-02	U	8.00E-06	U	4.00E-05	U	1
Nitrosodiphenylamine, N-	86-30-6	No	No	4.90E-03	U	2.60E-06	U					1
Nitrosomethylethylamine, N-	10595-95-6	No	Yes	2.20E+01	U	6.30E-03	U					1
Nitrosomethylvinylamine, N-	4549-40-0	No	Yes									1
Nitrosomorpholine [N-]	59-89-2	No	No	6.70E+00	U	1.90E-03	U					1
Nitrosopiperidine [N-]	100-75-4	No	No	9.40E+00	U	2.70E-03	U					1
Nitrosopyrrolidine, N-	930-55-2	No	No	2.10E+00	U	6.10E-04	U					1
Nitrotoluene, 4-Amino-2-	119-32-4	No	No									1
Nitrotoluene, m-	99-08-1	No	No					1.00E-04	U			1
Nitrotoluene, o-	88-72-2	No	Yes	2.20E-01	U			9.00E-04	U			1
Nitrotoluene, p-	99-99-0	No	No	1.60E-02	U			4.00E-03	U			1
Nonachlor, trans-	39765-80-5	No	Yes									1
Nonane, n-	111-84-2	No	Yes					3.00E-04	U	2.00E-02	U	1
Nonanol, n-	143-08-8	No	Yes									1
Norflurazon	27314-13-2	No	No					4.00E-02	U			1
Nustar	85509-19-9	No	No					7.00E-04	U			1
OCDD	3268-87-9	No	No	3.90E+01	U	1.14E-02	U	2.33E-06	U	1.33E-04	U	1
OCDF	39001-02-0	No	No	3.90E+01	U	1.14E-02	U	2.33E-06	U	1.33E-04	U	1
Octabromodiphenyl Ether	32536-52-0	No	No					3.00E-03	U			1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Nitroguanidine	556-88-7	0.1	1			3.23E+09					
Nitromethane	75-52-5		1	2.34E+04	1.80E+04	3.23E+09			6.78E+02	6.78E+02	
Nitrophenol, 2-	88-75-5		1	1.65E+05		3.23E+09					
Nitrophenol, 2-amino-4-	99-57-0	0.1	1			3.23E+09					
Nitrophenol, 3-	554-84-7	0.1	1			3.23E+09					
Nitrophenol, 4-	100-02-7	0.1	1			3.23E+09					
Nitrophenol, 4-amino-2-	119-34-6	0.1	1			3.23E+09					
Nitropropane, 2-	79-46-9		1	1.81E+04	4.86E+03	3.23E+09			1.71E+00	1.71E+00	
Nitropyrene, 4-	57835-92-4	0.13	1			3.23E+09	1.63E+01	4.38E+01	7.51E+06	1.19E+01	
Nitroquinoline-1-oxide. 4-	56-57-5	0.1	1			3.23E+09					
Nitroso-N-ethylurea, N-	759-73-9	0.1	1			3.23E+09	2.46E-01	1.67E+00	5.85E+04	2.14E-01	
Nitroso-N-methylurea, N-	684-93-5	0.1	1			3.23E+09	5.54E-02	3.75E-01	1.33E+04	4.82E-02	
Nitroso-di-N-butylamine, N-	924-16-3		1	3.35E+05		3.23E+09	3.62E+00		5.35E+01	3.39E+00	
Nitroso-di-N-propylamine, N-	621-64-7	0.1	1			3.23E+09	2.79E+00	9.77E+00	4.13E+05	2.17E+00	
Nitrosodiethanolamine, N-	1116-54-7	0.1	1			3.23E+09	6.98E+00	2.44E+01	1.03E+06	5.43E+00	
Nitrosodiethylamine, N-	55-18-5	0.1	1			3.23E+09	4.43E-02	3.00E-01	1.05E+04	3.86E-02	
Nitrosodimethylamine, N-	62-75-9		1	1.14E+05	2.37E+05	3.23E+09	1.30E-01		1.13E+00	1.17E-01	
Nitrosodiphenylamine, N-	86-30-6	0.1	1			3.23E+09	3.99E+03	1.40E+04	3.18E+08	3.10E+03	
Nitrosomethylethylamine, N-	10595-95-6		1	1.67E+05	1.08E+05	3.23E+09	8.89E-01		6.77E+00	7.85E-01	
Nitrosomethylvinylamine, N-	4549-40-0		1	1.12E+05	1.08E+04	3.23E+09					
Nitrosomorpholine [N-]	59-89-2	0.1	1			3.23E+09	2.92E+00	1.02E+01	4.35E+05	2.27E+00	
Nitrosopiperidine [N-]	100-75-4	0.1	1			3.23E+09	2.08E+00	7.28E+00	3.06E+05	1.62E+00	
Nitrosopyrrolidine, N-	930-55-2	0.1	1			3.23E+09	9.31E+00	3.26E+01	1.35E+06	7.24E+00	
Nitrotoluene, 4-Amino-2-	119-32-4	0.1	1			3.23E+09					
Nitrotoluene, m-	99-08-1	0.1	1			3.23E+09					
Nitrotoluene, o-	88-72-2		1	1.89E+05	1.51E+03	3.23E+09	8.89E+01			8.89E+01	
Nitrotoluene, p-	99-99-0	0.1	1			3.23E+09	1.22E+03	4.27E+03		9.50E+02	
Nonachlor, trans-	39765-80-5		1	3.73E+06		3.23E+09					
Nonane, n-	111-84-2		1	1.44E+03	6.86E+00	3.23E+09					
Nonanol, n-	143-08-8		1	6.41E+04	7.27E+01	3.23E+09					
Norflurazon	27314-13-2	0.1	1			3.23E+09					
Nustar	85509-19-9	0.1	1			3.23E+09					
OCDD	3268-87-9	0.03	1			3.23E+09	5.01E-01	5.85E+00	7.25E+04	4.62E-01	
OCDF	39001-02-0	0.03	1			3.23E+09	5.01E-01	5.85E+00	7.25E+04	4.62E-01	
Octabromodiphenyl Ether	32536-52-0	0.1	1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Nitroguanidine	556-88-7				6.70E+05	2.34E+06		5.21E+05	5.21E+05 max
Nitromethane	75-52-5						1.02E+04	1.02E+04	6.78E+02 ca*
Nitrophenol, 2-	88-75-5								
Nitrophenol, 2-amino-4-	99-57-0								
Nitrophenol, 3-	554-84-7								
Nitrophenol, 4-	100-02-7								
Nitrophenol, 4-amino-2-	119-34-6								
Nitropropane, 2-	79-46-9						3.17E+04	3.17E+04	1.71E+00 ca
Nitropyrene, 4-	57835-92-4								1.19E+01 ca
Nitroquinoline-1-oxide. 4-	56-57-5								
Nitroso-N-ethylurea, N-	759-73-9								2.14E-01 ca
Nitroso-N-methylurea, N-	684-93-5								4.82E-02 ca
Nitroso-di-N-butylamine, N-	924-16-3								3.39E+00 ca
Nitroso-di-N-propylamine, N-	621-64-7								2.17E+00 ca
Nitrosodiethanolamine, N-	1116-54-7								5.43E+00 ca
Nitrosodiethylamine, N-	55-18-5								3.86E-02 ca
Nitrosodimethylamine, N-	62-75-9				5.36E+01		3.98E+02	4.72E+01	1.17E-01 ca
Nitrosodiphenylamine, N-	86-30-6								3.10E+03 ca
Nitrosomethylethylamine, N-	10595-95-6								7.85E-01 ca
Nitrosomethylvinylamine, N-	4549-40-0								
Nitrosomorpholine [N-]	59-89-2								2.27E+00 ca
Nitrosopiperidine [N-]	100-75-4								1.62E+00 ca
Nitrosopyrrolidine, N-	930-55-2								7.24E+00 ca
Nitrotoluene, 4-Amino-2-	119-32-4								
Nitrotoluene, m-	99-08-1				6.70E+02	2.34E+03		5.21E+02	5.21E+02 nc
Nitrotoluene, o-	88-72-2				6.03E+03			6.03E+03	8.89E+01 ca*
Nitrotoluene, p-	99-99-0				2.68E+04	9.38E+04		2.08E+04	9.50E+02 ca*
Nonachlor, trans-	39765-80-5								
Nonane, n-	111-84-2				2.01E+03		2.52E+03	1.12E+03	1.12E+03 sat
Nonanol, n-	143-08-8								
Norflurazon	27314-13-2				2.68E+05	9.38E+05		2.08E+05	2.08E+05 max
Nustar	85509-19-9				4.69E+03	1.64E+04		3.65E+03	3.65E+03 nc
OCDD	3268-87-9				1.56E+01	1.82E+02	3.77E+07	1.44E+01	4.62E-01 ca*
OCDF	39001-02-0				1.56E+01	1.82E+02	3.77E+07	1.44E+01	4.62E-01 ca*
Octabromodiphenyl Ether	32536-52-0				2.01E+04	7.03E+04		1.56E+04	1.56E+04 nc

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Octachlorostyrene	29082-74-4	No	Yes									1
Octadecanoic Acid	57-11-4	No	No									1
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	No	No					5.00E-02	U			1
Octahydrotrimethylmethylethylphenanthrenol	511-15-9	No	No									1
Octamethylpyrophosphoramide	152-16-9	No	No					2.00E-03	U			1
Octanol, n-	111-87-5	No	Yes									1
Octanone, 2-	111-13-7	No	Yes									1
Octanone, 3-	106-68-3	No	Yes									1
Octyl Phthalate, di-N-	117-84-0	No	No					1.00E-02	U			1
Oleic acid	112-80-1	Yes	Yes									1
Oleum	8014-95-7	No	No									1
Oryzalin	19044-88-3	No	No					5.00E-02	U			1
Oxadiazon	19666-30-9	No	No					5.00E-03	U			1
Oxamyl	23135-22-0	No	No					2.50E-02	U			1
Oxychlordane	27304-13-8	No	No									1
Ozone	10028-15-6	No	No									1
Paclobutrazol	76738-62-0	No	No					1.30E-02	U			1
Paraquat Dichloride	1910-42-5	No	No					4.50E-03	U			1
Parathion	56-38-2	No	No					6.00E-03	U			1
PeCDD, 2,3,7,8-	36088-22-9	No	No	1.30E+05	U	3.80E+01	U	7.00E-10	U	4.00E-08	U	1
PeCDF, 1,2,3,7,8-	57117-41-6	No	No	3.90E+03	U	1.14E+00	U	2.33E-08	U	1.33E-06	U	1
PeCDF, 2,3,4,7,8-	57117-31-4	No	No	3.90E+04	U	1.14E+01	U	2.33E-09	U	1.33E-07	U	1
Pebulate	1114-71-2	No	Yes					5.00E-02	U			1
Pendimethalin	40487-42-1	No	No					4.00E-02	U			1
Pentabromodiphenyl Ether	32534-81-9	No	No					2.00E-03	U			1
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	No	No					1.00E-04	U			1
Pentachloroaniline	527-20-8	No	No									1
Pentachlorobenzene	608-93-5	No	Yes					8.00E-04	U			1
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	No	Yes	3.90E+00	U	1.14E-03	U	2.33E-05	U	1.33E-03	U	1
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
Pentachlorocyclopentadiene	25329-35-5	No	Yes									1

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Octachlorostyrene	29082-74-4		1	8.40E+05		3.23E+09					
Octadecanoic Acid	57-11-4	0.1	1			3.23E+09					
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	0.006	1			3.23E+09					
Octahydrotrimethylmethylethylphenanthrenol	511-15-9	0.1	1			3.23E+09					
Octamethylpyrophosphoramide	152-16-9	0.1	1			3.23E+09					
Octanol, n-	111-87-5		1	5.35E+04	1.78E+02	3.23E+09					
Octanone, 2-	111-13-7		1	2.12E+04	3.60E+02	3.23E+09					
Octanone, 3-	106-68-3		1	2.60E+04	1.08E+03	3.23E+09					
Octyl Phthalate, di-N-	117-84-0	0.1	1			3.23E+09					
Oleic acid	112-80-1		1	1.43E+06	1.44E+00	3.23E+09					
Oleum	8014-95-7		1			3.23E+09					
Oryzalin	19044-88-3	0.1	1			3.23E+09					
Oxadiazon	19666-30-9	0.1	1			3.23E+09					
Oxamyl	23135-22-0	0.1	1			3.23E+09					
Oxychlordane	27304-13-8	0.1	1			3.23E+09					
Ozone	10028-15-6		1			3.23E+09					
Paclobutrazol	76738-62-0	0.1	1			3.23E+09					
Paraquat Dichloride	1910-42-5	0.1	1			3.23E+09					
Parathion	56-38-2	0.1	1			3.23E+09					
PeCDD, 2,3,7,8-	36088-22-9	0.03	1			3.23E+09	1.50E-04	1.75E-03	2.17E+01	1.38E-04	
PeCDF, 1,2,3,7,8-	57117-41-6	0.03	1			3.23E+09	5.01E-03	5.85E-02	7.25E+02	4.62E-03	
PeCDF, 2,3,4,7,8-	57117-31-4	0.03	1			3.23E+09	5.01E-04	5.85E-03	7.25E+01	4.62E-04	
Pebulate	1114-71-2		1	6.20E+04		3.23E+09					
Pendimethalin	40487-42-1	0.1	1			3.23E+09					
Pentabromodiphenyl Ether	32534-81-9	0.1	1			3.23E+09					
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9	0.1	1			3.23E+09					
Pentachloroaniline	527-20-8	0.1	1			3.23E+09					
Pentachlorobenzene	608-93-5		1	1.12E+05		3.23E+09					
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3	0.14	1	1.42E+06		3.23E+09	5.01E+00	1.25E+01	3.19E+02	3.54E+00	
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6	0.14	1	1.14E+06		3.23E+09	5.01E+00	1.25E+01	2.56E+02	3.53E+00	
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4	0.14	1	1.17E+06		3.23E+09	5.01E+00	1.25E+01	2.61E+02	3.53E+00	
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0	0.14	1	1.42E+06		3.23E+09	5.01E+00	1.25E+01	3.19E+02	3.54E+00	
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8	0.14	1	1.41E+06		3.23E+09	1.50E-03	3.76E-03	9.46E-02	1.06E-03	
Pentachlorocyclopentadiene	25329-35-5		1	1.95E+04		3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Octachlorostyrene	29082-74-4								
Octadecanoic Acid	57-11-4								
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0				3.35E+05	1.95E+07		3.29E+05	3.29E+05 max
Octahydrotrimethylmethylethylphenanthrenol	511-15-9								
Octamethylpyrophosphoramide	152-16-9				1.34E+04	4.69E+04		1.04E+04	1.04E+04 nc
Octanol, n-	111-87-5								
Octanone, 2-	111-13-7								
Octanone, 3-	106-68-3								
Octyl Phthalate, di-N-	117-84-0				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Oleic acid	112-80-1								
Oleum	8014-95-7								
Oryzalin	19044-88-3				3.35E+05	1.17E+06		2.61E+05	2.61E+05 max
Oxadiazon	19666-30-9				3.35E+04	1.17E+05		2.61E+04	2.61E+04 nc
Oxamyl	23135-22-0				1.68E+05	5.86E+05		1.30E+05	1.30E+05 max
Oxychlordane	27304-13-8								
Ozone	10028-15-6								
Paclobutrazol	76738-62-0				8.71E+04	3.05E+05		6.78E+04	6.78E+04 nc
Paraquat Dichloride	1910-42-5				3.02E+04	1.06E+05		2.35E+04	2.35E+04 nc
Parathion	56-38-2				4.02E+04	1.41E+05		3.13E+04	3.13E+04 nc
PeCDD, 2,3,7,8-	36088-22-9				4.69E-03	5.47E-02	1.13E+04	4.32E-03	1.38E-04 ca*
PeCDF, 1,2,3,7,8-	57117-41-6				1.56E-01	1.82E+00	3.77E+05	1.44E-01	4.62E-03 ca*
PeCDF, 2,3,4,7,8-	57117-31-4				1.56E-02	1.82E-01	3.77E+04	1.44E-02	4.62E-04 ca*
Pebulate	1114-71-2				3.35E+05			3.35E+05	3.35E+05 max
Pendimethalin	40487-42-1				2.68E+05	9.38E+05		2.08E+05	2.08E+05 max
Pentabromodiphenyl Ether	32534-81-9				1.34E+04	4.69E+04		1.04E+04	1.04E+04 nc
Pentabromodiphenyl ether, 2,2',4,4',5- (BDE-99)	60348-60-9				6.70E+02	2.34E+03		5.21E+02	5.21E+02 nc
Pentachloroaniline	527-20-8								
Pentachlorobenzene	608-93-5				5.36E+03			5.36E+03	5.36E+03 nc
Pentachlorobiphenyl, 2',3,4,4',5- (PCB 123)	65510-44-3				1.56E+02	3.90E+02	1.66E+05	1.11E+02	3.54E+00 ca*
Pentachlorobiphenyl, 2,3',4,4',5- (PCB 118)	31508-00-6				1.56E+02	3.90E+02	1.33E+05	1.11E+02	3.53E+00 ca*
Pentachlorobiphenyl, 2,3,3',4,4'- (PCB 105)	32598-14-4				1.56E+02	3.90E+02	1.36E+05	1.11E+02	3.53E+00 ca*
Pentachlorobiphenyl, 2,3,4,4',5- (PCB 114)	74472-37-0				1.56E+02	3.90E+02	1.66E+05	1.11E+02	3.54E+00 ca*
Pentachlorobiphenyl, 3,3',4,4',5- (PCB 126)	57465-28-8				4.69E-02	1.17E-01	4.93E+01	3.35E-02	1.06E-03 ca*
Pentachlorocyclopentadiene	25329-35-5								

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	No	Yes	1.30E+05	U	3.80E+01	U	7.00E-10	U	4.00E-08	U	1
Pentachloroethane	76-01-7	No	Yes	9.00E-02	U							1
Pentachloronitrobenzene	82-68-8	No	Yes	2.60E-01	U			3.00E-03	U			1
Pentachlorophenol	87-86-5	No	No	4.00E-01	U	5.10E-06	U	5.00E-03	U			1
Pentaerythritol tetranitrate (PETN)	78-11-5	No	No	4.00E-03	U			2.00E-03	U			1
Pentamethyl dipropylenetriamine	3855-32-1	No	No									1
Pentane, n-	109-66-0	No	Yes							1.00E+00	U	1
Pentyl Alcohol, N-	71-41-0	No	Yes									1
Perchlorate and Perchlorate Salts	14797-73-0	No	No					7.00E-04	U			1
Perfluorobutane Sulfonate	375-73-5	No	Yes					2.00E-02	U			1
Perfluorooctane Sulphonic Acid	1763-23-1	No	Yes									1
Perfluorooctanoic acid	335-67-1	No	Yes									1
Permethrin	52645-53-1	No	No					5.00E-02	U			1
Perylene	198-55-0	No	No									1
Pesticides (total)	NA	No	No									1
Pesticides, organochlorinated (each)	NA	No	No									1
Pesticides, organochlorinated (total)	NA	No	No									1
Phenacetin	62-44-2	No	No	2.20E-03	U	6.30E-07	U					1
Phenanthrene	85-01-8	No	Yes									1
Phenmedipham	13684-63-4	No	No					2.50E-01	U			1
Phenol	108-95-2	No	No					3.00E-01	U	2.00E-01	U	1
Phenothiazine	92-84-2	No	No					5.00E-04	U			1
Phenyl Isothiocyanate	103-72-0	No	Yes									1
Phenylenediamine, m-	108-45-2	No	No					6.00E-03	U			1
Phenylenediamine, o-	95-54-5	No	No	4.70E-02	U							1
Phenylenediamine, p-	106-50-3	No	No					1.90E-01	U			1
Phenylmercuric Acetate	62-38-4	No	No					8.00E-05	U			1
Phenylphenol, 2-	90-43-7	No	No	1.94E-03	U							1
Phorate	298-02-2	No	No					2.00E-04	U			1
Phosgene	75-44-5	No	Yes							3.00E-04	U	1
Phosmet	732-11-6	No	No					2.00E-02	U			1
Phosphine	7803-51-2	No	Yes					3.00E-04	U	3.00E-04	U	1
Phosphoric Acid	7664-38-2	No	No					4.86E+01	U	1.00E-02	U	1
Phosphorus (total)	NA	No	No									1
Phosphorus pentoxide	1314-56-3	No	No									1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4	0.03	1	4.61E+06		3.23E+09	1.50E-04	1.75E-03	3.10E-02	1.38E-04	
Pentachloroethane	76-01-7		1	1.33E+04	4.47E+02	3.23E+09	2.17E+02			2.17E+02	
Pentachloronitrobenzene	82-68-8		1	5.95E+05		3.23E+09	7.52E+01			7.52E+01	
Pentachlorophenol	87-86-5	0.25	1			3.23E+09	4.89E+01	6.84E+01	1.62E+08	2.85E+01	
Pentaerythritol tetranitrate (PETN)	78-11-5	0.1	1			3.23E+09	4.89E+03	1.71E+04		3.80E+03	
Pentamethyl dipropylenetriamine	3855-32-1	0.1	1			3.23E+09					
Pentane, n-	109-66-0		1	1.07E+03	3.88E+02	3.23E+09					
Pentyl Alcohol, N-	71-41-0		1	3.91E+04	3.04E+03	3.23E+09					
Perchlorate and Perchlorate Salts	14797-73-0		1			3.23E+09					
Perfluorobutane Sulfonate	375-73-5		1	1.82E+05		3.23E+09					
Perfluorooctane Sulphonic Acid	1763-23-1		1	1.48E+05		3.23E+09					
Perfluorooctanoic acid	335-67-1		1	3.00E+04		3.23E+09					
Permethrin	52645-53-1	0.1	1			3.23E+09					
Perylene	198-55-0	0.13	1			3.23E+09					
Pesticides (total)	NA	0.1	1			3.23E+09					
Pesticides, organochlorinated (each)	NA	0.1	1			3.23E+09					
Pesticides, organochlorinated (total)	NA	0.1	1			3.23E+09					
Phenacetin	62-44-2	0.1	1			3.23E+09	8.89E+03	3.11E+04	1.31E+09	6.91E+03	
Phenanthrene	85-01-8	0.13	1	8.87E+05		3.23E+09					
Phenmedipham	13684-63-4	0.1	1			3.23E+09					
Phenol	108-95-2	0.1	1			3.23E+09					
Phenothiazine	92-84-2	0.1	1			3.23E+09					
Phenyl Isothiocyanate	103-72-0		1	9.76E+03	1.29E+02	3.23E+09					
Phenylenediamine, m-	108-45-2	0.1	1			3.23E+09					
Phenylenediamine, o-	95-54-5	0.1	1			3.23E+09	4.16E+02	1.46E+03		3.23E+02	
Phenylenediamine, p-	106-50-3	0.1	1			3.23E+09					
Phenylmercuric Acetate	62-38-4	0.1	1			3.23E+09					
Phenylphenol, 2-	90-43-7	0.1	1			3.23E+09	1.01E+04	3.53E+04		7.84E+03	
Phorate	298-02-2	0.1	1			3.23E+09					
Phosgene	75-44-5		1	1.35E+03	1.61E+03	3.23E+09					
Phosmet	732-11-6	0.1	1			3.23E+09					
Phosphine	7803-51-2		1			3.23E+09					
Phosphoric Acid	7664-38-2		1			3.23E+09					
Phosphorus (total)	NA		1			3.23E+09					
Phosphorus pentoxide	1314-56-3		1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	40321-76-4				4.69E-03	5.47E-02	1.61E+01	4.32E-03	1.38E-04 ca*
Pentachloroethane	76-01-7								2.17E+02 ca
Pentachloronitrobenzene	82-68-8				2.01E+04			2.01E+04	7.52E+01 ca
Pentachlorophenol	87-86-5				3.35E+04	4.69E+04		1.95E+04	2.85E+01 ca
Pentaerythritol tetranitrate (PETN)	78-11-5				1.34E+04	4.69E+04		1.04E+04	3.80E+03 ca**
Pentamethyl dipropylenetriamine	3855-32-1								
Pentane, n-	109-66-0						9.42E+04	9.42E+04	9.42E+04 sat
Pentyl Alcohol, N-	71-41-0								
Perchlorate and Perchlorate Salts	14797-73-0				4.69E+03			4.69E+03	4.69E+03 nc
Perfluorobutane Sulfonate	375-73-5				1.34E+05			1.34E+05	1.34E+05 max
Perfluorooctane Sulphonic Acid	1763-23-1								
Perfluorooctanoic acid	335-67-1								
Permethrin	52645-53-1				3.35E+05	1.17E+06		2.61E+05	2.61E+05 max
Perylene	198-55-0								
Pesticides (total)	NA								
Pesticides, organochlorinated (each)	NA								
Pesticides, organochlorinated (total)	NA								
Phenacetin	62-44-2								6.91E+03 ca
Phenanthrene	85-01-8								
Phenmedipham	13684-63-4				1.68E+06	5.86E+06		1.30E+06	1.30E+06 max
Phenol	108-95-2				2.01E+06	7.03E+06	5.66E+10	1.56E+06	1.56E+06 max
Phenothiazine	92-84-2				3.35E+03	1.17E+04		2.61E+03	2.61E+03 nc
Phenyl Isothiocyanate	103-72-0								
Phenylenediamine, m-	108-45-2				4.02E+04	1.41E+05		3.13E+04	3.13E+04 nc
Phenylenediamine, o-	95-54-5								3.23E+02 ca
Phenylenediamine, p-	106-50-3				1.27E+06	4.46E+06		9.90E+05	9.90E+05 max
Phenylmercuric Acetate	62-38-4				5.36E+02	1.88E+03		4.17E+02	4.17E+02 nc
Phenylphenol, 2-	90-43-7								7.84E+03 ca
Phorate	298-02-2				1.34E+03	4.69E+03		1.04E+03	1.04E+03 nc
Phosgene	75-44-5						3.56E+01	3.56E+01	3.56E+01 nc
Phosmet	732-11-6				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Phosphine	7803-51-2				2.01E+03		8.50E+07	2.01E+03	2.01E+03 nc
Phosphoric Acid	7664-38-2				3.26E+08		2.83E+09	2.92E+08	2.92E+08 max
Phosphorus (total)	NA								
Phosphorus pentoxide	1314-56-3								

Site-specific
Recreator Screening Levels (RSL) for Soil
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Phosphorus, White	7723-14-0	No	Yes					2.00E-05	U			1
Phthalates (total)	NA	No	No									1
Phthalic Acid, P-	100-21-0	No	No					1.00E+00	U			1
Phthalic Acid, m-	121-91-5	No	No									1
Phthalic Acid, o-	88-99-3	No	No									1
Phthalic Anhydride	85-44-9	No	No					2.00E+00	U	2.00E-02	U	1
Picloram	1918-02-1	No	No					7.00E-02	U			1
Picoline, 2-	109-06-8	No	Yes									1
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	No	No					1.00E-04	U			1
Picric Acid (2,4,6-Trinitrophenol)	88-89-1	No	No									1
Piperidine	110-89-4	Yes	Yes									1
Pirimiphos, Methyl	29232-93-7	No	No					1.00E-02	U			1
Polybrominated Biphenyls	59536-65-1	No	No	3.00E+01	U	8.60E-03	U	7.00E-06	U			1
Polychlorinated Biphenyls (high risk)	1336-36-3	No	Yes	2.00E+00	U	5.71E-04	U					1
Polycyclic aromatic hydrocarbons (PAH), Total	NA	No	No									1
Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)	NA	No	No									1
Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)	NA	No	No									1
Polycyclic chlorinated hydrocarbons (total)	NA	No	No									1
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	No	No							6.00E-04	U	1
Polyphosphoric acid	8017-16-1	No	No					4.86E+01	U			1
Potassium	7440-09-7	No	No									1
Potassium Cyanide	151-50-8	No	No					2.00E-03	U			1
Potassium Perchlorate	7778-74-7	No	No					7.00E-04	U			1
Potassium Perfluorobutane Sulfonate	29420-49-3	No	No					2.00E-02	U			1
Potassium Silver Cyanide	506-61-6	No	No					5.00E-03	U			0.04
Potassium chlorate	3811-04-9	No	No									1
Potassium tripolyphosphate	13845-36-8	No	No					4.86E+01	U			1
Praseodymium	7440-10-0	No	No									1
Praseodymium Chloride (Stable, Nonradioactive)	10361-79-2	No	No									1
Prochloraz	67747-09-5	No	No	1.50E-01	U			9.00E-03	U			1
Profluralin	26399-36-0	No	Yes					6.00E-03	U			1

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Phosphorus, White	7723-14-0		1	9.55E+03		3.23E+09					
Phthalates (total)	NA	0.1	1			3.23E+09					
Phthalic Acid, P-	100-21-0	0.1	1			3.23E+09					
Phthalic Acid, m-	121-91-5	0.1	1			3.23E+09					
Phthalic Acid, o-	88-99-3	0.1	1			3.23E+09					
Phthalic Anhydride	85-44-9	0.1	1			3.23E+09					
Picloram	1918-02-1	0.1	1			3.23E+09					
Picoline, 2-	109-06-8		1	1.05E+05	7.90E+05	3.23E+09					
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3	0.1	1			3.23E+09					
Picric Acid (2,4,6-Trinitrophenol)	88-89-1	0.1	1			3.23E+09					
Piperidine	110-89-4		1	1.12E+05	1.96E+05	3.23E+09					
Pirimiphos, Methyl	29232-93-7	0.1	1			3.23E+09					
Polybrominated Biphenyls	59536-65-1	0.1	1			3.23E+09	6.52E-01	2.28E+00	9.61E+04	5.07E-01	
Polychlorinated Biphenyls (high risk)	1336-36-3	0.14	1	1.08E+06		3.23E+09	9.77E+00	2.44E+01	4.85E+02	6.88E+00	
Polycyclic aromatic hydrocarbons (PAH), Total	NA	0.13	1			3.23E+09					
Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)	NA	0.13	1			3.23E+09					
Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)	NA	0.13	1			3.23E+09					
Polycyclic chlorinated hydrocarbons (total)	NA	0.1	1			3.23E+09					
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9	0.1	1			3.23E+09					
Polyphosphoric acid	8017-16-1		1			3.23E+09					
Potassium	7440-09-7		1			3.23E+09					
Potassium Cyanide	151-50-8		1			3.23E+09					
Potassium Perchlorate	7778-74-7		1			3.23E+09					
Potassium Perfluorobutane Sulfonate	29420-49-3	0.1	1			3.23E+09					
Potassium Silver Cyanide	506-61-6		1			3.23E+09					
Potassium chlorate	3811-04-9		1			3.23E+09					
Potassium tripolyphosphate	13845-36-8		1			3.23E+09					
Praseodymium	7440-10-0		1			3.23E+09					
Praseodymium Chloride (Stable, Nonradioactive)	10361-79-2		1			3.23E+09					
Prochloraz	67747-09-5	0.1	1			3.23E+09	1.30E+02	4.56E+02		1.01E+02	
Profluralin	26399-36-0		1	5.78E+05		3.23E+09					

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Phosphorus, White	7723-14-0				1.34E+02			1.34E+02	1.34E+02 nc
Phthalates (total)	NA								
Phthalic Acid, P-	100-21-0				6.70E+06	2.34E+07		5.21E+06	5.21E+06 max
Phthalic Acid, m-	121-91-5								
Phthalic Acid, o-	88-99-3								
Phthalic Anhydride	85-44-9				1.34E+07	4.69E+07	5.66E+09	1.04E+07	1.04E+07 max
Picloram	1918-02-1				4.69E+05	1.64E+06		3.65E+05	3.65E+05 max
Picoline, 2-	109-06-8								
Picramic Acid (2-Amino-4,6-dinitrophenol)	96-91-3				6.70E+02	2.34E+03		5.21E+02	5.21E+02 nc
Picric Acid (2,4,6-Trinitrophenol)	88-89-1								
Piperidine	110-89-4								
Pirimiphos, Methyl	29232-93-7				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Polybrominated Biphenyls	59536-65-1				4.69E+01	1.64E+02		3.65E+01	5.07E-01 ca*
Polychlorinated Biphenyls (high risk)	1336-36-3								6.88E+00 ca
Polycyclic aromatic hydrocarbons (PAH), Total	NA								
Polycyclic aromatic hydrocarbons (PAH), Total (high molecular weight)	NA								
Polycyclic aromatic hydrocarbons (PAH), Total (low molecular weight)	NA								
Polycyclic chlorinated hydrocarbons (total)	NA								
Polymeric Methylene Diphenyl Diisocyanate (PMDI)	9016-87-9						1.70E+08	1.70E+08	1.70E+08 max
Polyphosphoric acid	8017-16-1				3.26E+08			3.26E+08	3.26E+08 max
Potassium	7440-09-7								
Potassium Cyanide	151-50-8				1.34E+04			1.34E+04	1.34E+04 nc
Potassium Perchlorate	7778-74-7				4.69E+03			4.69E+03	4.69E+03 nc
Potassium Perfluorobutane Sulfonate	29420-49-3				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Potassium Silver Cyanide	506-61-6				3.35E+04			3.35E+04	3.35E+04 nc
Potassium chlorate	3811-04-9								
Potassium tripolyphosphate	13845-36-8				3.26E+08			3.26E+08	3.26E+08 max
Praseodymium	7440-10-0								
Praseodymium Chloride (Stable, Nonradioactive)	10361-79-2								
Prochloraz	67747-09-5				6.03E+04	2.11E+05		4.69E+04	1.01E+02 ca
Profluralin	26399-36-0				4.02E+04			4.02E+04	4.02E+04 nc

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Promethium	7440-12-2	No	No									1
Prometon	1610-18-0	No	No					1.50E-02	U			1
Prometryn	7287-19-6	No	No					4.00E-03	U			1
Propachlor	1918-16-7	No	No					1.30E-02	U			1
Propanil	709-98-8	No	No					5.00E-03	U			1
Propanoic acid, 2-(2,4-dichlorophenoxy)-	120-36-5	No	No									1
Propargite	2312-35-8	No	No					2.00E-02	U			1
Propargyl Alcohol	107-19-7	No	Yes					2.00E-03	U			1
Propazine	139-40-2	No	No					2.00E-02	U			1
Propham	122-42-9	No	No					2.00E-02	U			1
Propiconazole	60207-90-1	No	No					1.30E-02	U			1
Propionaldehyde	123-38-6	No	Yes							8.00E-03	U	1
Propionitrile	107-12-0	No	Yes									1
Propionitrile, 3-(NN-dimethylamino)	1738-25-6	No	Yes									1
Propyl Alcohol, n-	71-23-8	No	Yes									1
Propyl benzene	103-65-1	No	Yes					1.00E-01	U	1.00E+00	U	1
Propylene	115-07-1	No	Yes							3.00E+00	U	1
Propylene Glycol	57-55-6	No	No					2.00E+01	U			1
Propylene Glycol Dinitrate	6423-43-4	No	No							2.72E-04	U	1
Propylene Glycol Monoethyl Ether	1569-02-4	No	Yes					7.00E-01	U			1
Propylene Glycol Monomethyl Ether	107-98-2	No	Yes					7.00E-01	U	2.00E+00	U	1
Propylene Oxide	75-56-9	No	Yes	2.40E-01	U	3.70E-06	U			3.00E-02	U	1
Prussian Blue (Ferric Ferrocyanide)	14038-43-8	No	No									1
Pursuit	81335-77-5	No	No					2.50E-01	U			1
Pydrin	51630-58-1	No	No					2.50E-02	U			1
Pyrazinyl phosphorothioate, O,O-diethyl O-2-	297-97-2	No	No									1
Pyrene	129-00-0	No	Yes					3.00E-02	U			1
Pyridine	110-86-1	No	Yes					1.00E-03	U			1
Quinalphos	13593-03-8	No	No					5.00E-04	U			1
Quinoline	91-22-5	No	No	3.00E+00	U							1
Refractory Ceramic Fibers	NA	No	No							3.00E-02	U	1
Resmethrin	10453-86-8	No	No					3.00E-02	U			1
Resorcinol	108-46-3	No	No									1
Ronnel	299-84-3	No	Yes					5.00E-02	U			1
Rotenone	83-79-4	No	No					4.00E-03	U			1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Promethium	7440-12-2		1			3.23E+09					
Prometon	1610-18-0	0.1	1			3.23E+09					
Prometryn	7287-19-6	0.1	1			3.23E+09					
Propachlor	1918-16-7	0.1	1			3.23E+09					
Propanil	709-98-8	0.1	1			3.23E+09					
Propanoic acid, 2-(2,4-dichlorophenoxy)-	120-36-5	0.1	1			3.23E+09					
Propargite	2312-35-8	0.1	1			3.23E+09					
Propargyl Alcohol	107-19-7		1	8.66E+04	1.11E+05	3.23E+09					
Propazine	139-40-2	0.1	1			3.23E+09					
Propham	122-42-9	0.1	1			3.23E+09					
Propiconazole	60207-90-1	0.1	1			3.23E+09					
Propionaldehyde	123-38-6		1	1.24E+04	3.26E+04	3.23E+09					
Propionitrile	107-12-0		1	2.07E+04	1.56E+04	3.23E+09					
Propionitrile, 3-(NN-dimethylamino)	1738-25-6		1	2.62E+05	1.60E+05	3.23E+09					
Propyl Alcohol, n-	71-23-8		1	4.01E+04	1.11E+05	3.23E+09					
Propyl benzene	103-65-1		1	9.64E+03	2.64E+02	3.23E+09					
Propylene	115-07-1		1	9.70E+02	3.49E+02	3.23E+09					
Propylene Glycol	57-55-6	0.1	1			3.23E+09					
Propylene Glycol Dinitrate	6423-43-4	0.1	1			3.23E+09					
Propylene Glycol Monoethyl Ether	1569-02-4		1	2.14E+05	8.52E+04	3.23E+09					
Propylene Glycol Monomethyl Ether	107-98-2		1	1.08E+05	1.06E+05	3.23E+09					
Propylene Oxide	75-56-9		1	1.42E+04	7.77E+04	3.23E+09	8.14E+01		9.77E+02	7.52E+01	
Prussian Blue (Ferric Ferrocyanide)	14038-43-8	0.1	1			3.23E+09					
Pursuit	81335-77-5	0.1	1			3.23E+09					
Pydrin	51630-58-1	0.1	1			3.23E+09					
Pyrazinyl phosphorothioate, O,O-diethyl O-2-	297-97-2	0.1	1			3.23E+09					
Pyrene	129-00-0	0.13	1	3.28E+06		3.23E+09					
Pyridine	110-86-1		1	7.64E+04	5.30E+05	3.23E+09					
Quinalphos	13593-03-8	0.1	1			3.23E+09					
Quinoline	91-22-5	0.1	1			3.23E+09	6.52E+00	2.28E+01		5.07E+00	
Refractory Ceramic Fibers	NA		1			3.23E+09					
Resmethrin	10453-86-8	0.1	1			3.23E+09					
Resorcinol	108-46-3	0.1	1			3.23E+09					
Ronnel	299-84-3		1	6.40E+05		3.23E+09					
Rotenone	83-79-4	0.1	1			3.23E+09					

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Promethium	7440-12-2								
Prometon	1610-18-0				1.01E+05	3.52E+05		7.82E+04	7.82E+04 nc
Prometryn	7287-19-6				2.68E+04	9.38E+04		2.08E+04	2.08E+04 nc
Propachlor	1918-16-7				8.71E+04	3.05E+05		6.78E+04	6.78E+04 nc
Propanil	709-98-8				3.35E+04	1.17E+05		2.61E+04	2.61E+04 nc
Propanoic acid, 2-(2,4-dichlorophenoxy)-	120-36-5								
Propargite	2312-35-8				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Propargyl Alcohol	107-19-7				1.34E+04			1.34E+04	1.34E+04 nc
Propazine	139-40-2				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Propham	122-42-9				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Propiconazole	60207-90-1				8.71E+04	3.05E+05		6.78E+04	6.78E+04 nc
Propionaldehyde	123-38-6						8.66E+03	8.66E+03	8.66E+03 nc
Propionitrile	107-12-0								
Propionitrile, 3-(NN-dimethylamino)	1738-25-6								
Propyl Alcohol, n-	71-23-8								
Propyl benzene	103-65-1				6.70E+05		8.45E+05	3.74E+05	3.74E+05 sat
Propylene	115-07-1						2.55E+05	2.55E+05	2.55E+05 sat
Propylene Glycol	57-55-6				1.34E+08	4.69E+08		1.04E+08	1.04E+08 max
Propylene Glycol Dinitrate	6423-43-4						7.70E+07	7.70E+07	7.70E+07 max
Propylene Glycol Monoethyl Ether	1569-02-4				4.69E+06			4.69E+06	4.69E+06 sat
Propylene Glycol Monomethyl Ether	107-98-2				4.69E+06		1.89E+07	3.76E+06	3.76E+06 sat
Propylene Oxide	75-56-9						3.72E+04	3.72E+04	7.52E+01 ca
Prussian Blue (Ferric Ferrocyanide)	14038-43-8								
Pursuit	81335-77-5				1.68E+06	5.86E+06		1.30E+06	1.30E+06 max
Pydrin	51630-58-1				1.68E+05	5.86E+05		1.30E+05	1.30E+05 max
Pyrazinyl phosphorothioate, O,O-diethyl O-2-	297-97-2								
Pyrene	129-00-0				2.01E+05	5.41E+05		1.47E+05	1.47E+05 max
Pyridine	110-86-1				6.70E+03			6.70E+03	6.70E+03 nc
Quinalphos	13593-03-8				3.35E+03	1.17E+04		2.61E+03	2.61E+03 nc
Quinoline	91-22-5								5.07E+00 ca
Refractory Ceramic Fibers	NA						8.50E+09	8.50E+09	8.50E+09 max
Resmethrin	10453-86-8				2.01E+05	7.03E+05		1.56E+05	1.56E+05 max
Resorcinol	108-46-3								
Ronnel	299-84-3				3.35E+05			3.35E+05	3.35E+05 max
Rotenone	83-79-4				2.68E+04	9.38E+04		2.08E+04	2.08E+04 nc

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Safrole	94-59-7	Yes	No	2.20E-01	U	6.30E-05	U					1
Samarium Chloride (Stable, Nonradioactive)	10361-82-7	No	No									1
Samarium Nitrate (Stable, Nonradioactive)	10361-83-8	No	No									1
Savey	78587-05-0	No	No					2.50E-02	U			1
Scandium	7440-20-2	No	No									1
Selenious Acid	7783-00-8	No	No					5.00E-03	U			1
Selenite	14124-67-5	No	No									1
Selenium	7782-49-2	No	No					5.00E-03	U	2.00E-02	U	1
Selenium Sulfide	7446-34-6	No	No					5.00E-03	U	2.00E-02	U	1
Selenourea	630-10-4	No	No									1
Sethoxydim	74051-80-2	No	No					9.00E-02	U			1
Silica (crystalline, respirable)	7631-86-9	No	No							3.00E-03	U	1
Silicon	7440-21-3	No	No									1
Silver	7440-22-4	No	No					5.00E-03	U			0.04
Silver Cyanide	506-64-9	No	No					1.00E-01	U			0.04
Simazine	122-34-9	No	No	1.20E-01	U			5.00E-03	U			1
Sodium	7440-23-5	No	No									1
Sodium Acifluorfen	62476-59-9	No	No					1.30E-02	U			1
Sodium Azide	26628-22-8	No	No					4.00E-03	U			1
Sodium Chlorate	7775-09-9	No	No									1
Sodium Cyanide	143-33-9	No	No					1.00E-03	U			1
Sodium Dichromate	10588-01-9	Yes	No	5.00E-01	U	1.50E-01	U	2.00E-02	U	2.00E-04	U	0.025
Sodium Diethyldithiocarbamate	148-18-5	No	No	2.70E-01	U			3.00E-02	U			1
Sodium Fluoride	7681-49-4	No	No					5.00E-02	U	1.30E-02	U	1
Sodium Fluoroacetate	62-74-8	No	No					2.00E-05	U			1
Sodium Hydroxide	1310-73-2	No	No									1
Sodium Metavanadate	13718-26-8	No	No					1.00E-03	U			1
Sodium Perchlorate	7601-89-0	No	No					7.00E-04	U			1
Sodium acid pyrophosphate	7758-16-9	No	No					4.86E+01	U			1
Sodium aluminum phosphate (acidic)	7785-88-8	No	No					4.86E+01	U			1
Sodium aluminum phosphate (anhydrous)	10279-59-1	No	No					4.86E+01	U			1
Sodium aluminum phosphate (tetrahydrate)	10305-76-7	No	No					4.86E+01	U			1
Sodium hexametaphosphate	10124-56-8	No	No					4.86E+01	U			1
Sodium polyphosphate	68915-31-1	No	No					4.86E+01	U			1
Sodium trimetaphosphate	7785-84-4	No	No					4.86E+01	U			1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Safrole	94-59-7	0.1	1			3.23E+09	3.02E+01	2.05E+02	7.15E+06	2.63E+01	
Samarium Chloride (Stable, Nonradioactive)	10361-82-7		1			3.23E+09					
Samarium Nitrate (Stable, Nonradioactive)	10361-83-8		1			3.23E+09					
Savey	78587-05-0	0.1	1			3.23E+09					
Scandium	7440-20-2		1			3.23E+09					
Selenious Acid	7783-00-8		1			3.23E+09					
Selenite	14124-67-5		1			3.23E+09					
Selenium	7782-49-2		1			3.23E+09					
Selenium Sulfide	7446-34-6		1			3.23E+09					
Selenourea	630-10-4	0.1	1			3.23E+09					
Sethoxydim	74051-80-2	0.1	1			3.23E+09					
Silica (crystalline, respirable)	7631-86-9		1			3.23E+09					
Silicon	7440-21-3		1			3.23E+09					
Silver	7440-22-4		1			3.23E+09					
Silver Cyanide	506-64-9		1			3.23E+09					
Simazine	122-34-9	0.1	1			3.23E+09	1.63E+02	5.70E+02		1.27E+02	
Sodium	7440-23-5		1			3.23E+09					
Sodium Acifluorfen	62476-59-9	0.1	1			3.23E+09					
Sodium Azide	26628-22-8		1			3.23E+09					
Sodium Chlorate	7775-09-9		1			3.23E+09					
Sodium Cyanide	143-33-9		1			3.23E+09					
Sodium Dichromate	10588-01-9		1			3.23E+09	1.33E+01		3.00E+03	1.32E+01	
Sodium Diethyldithiocarbamate	148-18-5	0.1	1			3.23E+09	7.24E+01	2.53E+02		5.63E+01	
Sodium Fluoride	7681-49-4		1			3.23E+09					
Sodium Fluoroacetate	62-74-8	0.1	1			3.23E+09					
Sodium Hydroxide	1310-73-2		1			3.23E+09					
Sodium Metavanadate	13718-26-8		1			3.23E+09					
Sodium Perchlorate	7601-89-0		1			3.23E+09					
Sodium acid pyrophosphate	7758-16-9		1			3.23E+09					
Sodium aluminum phosphate (acidic)	7785-88-8		1			3.23E+09					
Sodium aluminum phosphate (anhydrous)	10279-59-1		1			3.23E+09					
Sodium aluminum phosphate (tetrahydrate)	10305-76-7		1			3.23E+09					
Sodium hexametaphosphate	10124-56-8		1			3.23E+09					
Sodium polyphosphate	68915-31-1		1			3.23E+09					
Sodium trimetaphosphate	7785-84-4		1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Safrole	94-59-7								2.63E+01 ca
Samarium Chloride (Stable, Nonradioactive)	10361-82-7								
Samarium Nitrate (Stable, Nonradioactive)	10361-83-8								
Savey	78587-05-0				1.68E+05	5.86E+05		1.30E+05	1.30E+05 max
Scandium	7440-20-2								
Selenious Acid	7783-00-8				3.35E+04			3.35E+04	3.35E+04 nc
Selenite	14124-67-5								
Selenium	7782-49-2				3.35E+04		5.66E+09	3.35E+04	3.35E+04 nc
Selenium Sulfide	7446-34-6				3.35E+04		5.66E+09	3.35E+04	3.35E+04 nc
Selenourea	630-10-4								
Sethoxydim	74051-80-2				6.03E+05	2.11E+06		4.69E+05	4.69E+05 max
Silica (crystalline, respirable)	7631-86-9						8.50E+08	8.50E+08	8.50E+08 max
Silicon	7440-21-3								
Silver	7440-22-4				3.35E+04			3.35E+04	3.35E+04 nc
Silver Cyanide	506-64-9				6.70E+05			6.70E+05	6.70E+05 max
Simazine	122-34-9				3.35E+04	1.17E+05		2.61E+04	1.27E+02 ca
Sodium	7440-23-5								
Sodium Acifluorfen	62476-59-9				8.71E+04	3.05E+05		6.78E+04	6.78E+04 nc
Sodium Azide	26628-22-8				2.68E+04			2.68E+04	2.68E+04 nc
Sodium Chlorate	7775-09-9								
Sodium Cyanide	143-33-9				6.70E+03			6.70E+03	6.70E+03 nc
Sodium Dichromate	10588-01-9				1.34E+05		5.66E+07	1.34E+05	1.32E+01 ca
Sodium Diethyldithiocarbamate	148-18-5				2.01E+05	7.03E+05		1.56E+05	5.63E+01 ca
Sodium Fluoride	7681-49-4				3.35E+05		3.68E+09	3.35E+05	3.35E+05 max
Sodium Fluoroacetate	62-74-8				1.34E+02	4.69E+02		1.04E+02	1.04E+02 nc
Sodium Hydroxide	1310-73-2								
Sodium Metavanadate	13718-26-8				6.70E+03			6.70E+03	6.70E+03 nc
Sodium Perchlorate	7601-89-0				4.69E+03			4.69E+03	4.69E+03 nc
Sodium acid pyrophosphate	7758-16-9				3.26E+08			3.26E+08	3.26E+08 max
Sodium aluminum phosphate (acidic)	7785-88-8				3.26E+08			3.26E+08	3.26E+08 max
Sodium aluminum phosphate (anhydrous)	10279-59-1				3.26E+08			3.26E+08	3.26E+08 max
Sodium aluminum phosphate (tetrahydrate)	10305-76-7				3.26E+08			3.26E+08	3.26E+08 max
Sodium hexametaphosphate	10124-56-8				3.26E+08			3.26E+08	3.26E+08 max
Sodium polyphosphate	68915-31-1				3.26E+08			3.26E+08	3.26E+08 max
Sodium trimetaphosphate	7785-84-4				3.26E+08			3.26E+08	3.26E+08 max

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Sodium tripolyphosphate	7758-29-4	No	No					4.86E+01	U			1
Stearyl Acetate	822-23-1	No	Yes									1
Stirofos (Tetrachlorovinphos)	961-11-5	No	No	2.40E-02	U			3.00E-02	U			1
Strontium Chromate	7789-06-2	Yes	No	5.00E-01	U	1.50E-01	U	2.00E-02	U	2.00E-04	U	0.025
Strontium, Stable	7440-24-6	No	No					6.00E-01	U			1
Strychnine	57-24-9	No	No					3.00E-04	U			1
Styrene	100-42-5	No	Yes					2.00E-01	U	1.00E+00	U	1
Styrene-Acrylonitrile (SAN) Trimer	NA	No	No					3.00E-03	U			1
Sulfate	14808-79-8	No	No									1
Sulfide	18496-25-8	No	No									1
Sulfolane	126-33-0	No	No					1.00E-03	U	2.00E-03	U	1
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	No	No					8.00E-04	U			1
Sulfur	7704-34-9	No	No									1
Sulfur Dioxide	7446-09-5	No	Yes									1
Sulfur Mustard	505-60-2	No	Yes									1
Sulfur Trioxide	7446-11-9	No	Yes							1.00E-03	U	1
Sulfuric Acid	7664-93-9	No	No							1.00E-03	U	1
Systhane	88671-89-0	No	No					2.50E-02	U			1
TCDD, 2,3,7,8-	1746-01-6	No	Yes	1.30E+05	U	3.80E+01	U	7.00E-10	U	4.00E-08	U	1
TCDF, 2,3,7,8-	51207-31-9	No	Yes	1.30E+04	U	3.80E+00	U	7.00E-09	U	4.00E-07	U	1
TCMTB	21564-17-0	No	No					3.00E-02	U			1
Tebuthiuron	34014-18-1	No	No					7.00E-02	U			1
Technetium	7440-26-8	No	No									1
Tellurium	13494-80-9	No	No									1
Temephos	3383-96-8	No	No					2.00E-02	U			1
Terbacil	5902-51-2	No	No					1.30E-02	U			1
Terbufos	13071-79-9	No	Yes					2.50E-05	U			1
Terbutryn	886-50-0	No	No					1.00E-03	U			1
Tetrabutyl Lead	1920-90-7	No	Yes									1
Tetrachloroaniline, 2,3,5,6-	3481-20-7	No	No									1
Tetrachlorobenzene, 1,2,3,4-	634-66-2	No	Yes									1
Tetrachlorobenzene, 1,2,4,5-	95-94-3	No	Yes					3.00E-04	U			1
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	No	No	1.30E+01	U	3.80E-03	U	7.00E-06	U	4.00E-04	U	1
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	No	Yes	3.90E+01	U	1.14E-02	U	2.33E-06	U	1.33E-04	U	1
Tetrachloroethane, 1,1,1,2-	630-20-6	No	Yes	2.60E-02	U	7.40E-06	U	3.00E-02	U			1

Site-specific
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Sodium tripolyphosphate	7758-29-4		1			3.23E+09					
Stearyl Acetate	822-23-1		1	8.92E+04		3.23E+09					
Stirofos (Tetrachlorovinphos)	961-11-5	0.1	1			3.23E+09	8.14E+02	2.85E+03		6.33E+02	
Strontium Chromate	7789-06-2		1			3.23E+09	1.33E+01		3.00E+03	1.32E+01	
Strontium, Stable	7440-24-6		1			3.23E+09					
Strychnine	57-24-9	0.1	1			3.23E+09					
Styrene	100-42-5		1	1.29E+04	8.67E+02	3.23E+09					
Styrene-Acrylonitrile (SAN) Trimer	NA	0.1	1			3.23E+09					
Sulfate	14808-79-8		1			3.23E+09					
Sulfide	18496-25-8		1			3.23E+09					
Sulfolane	126-33-0	0.1	1			3.23E+09					
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9	0.1	1			3.23E+09					
Sulfur	7704-34-9		1			3.23E+09					
Sulfur Dioxide	7446-09-5		1			3.23E+09					
Sulfur Mustard	505-60-2		1	1.21E+05	1.08E+03	3.23E+09					
Sulfur Trioxide	7446-11-9		1			3.23E+09					
Sulfuric Acid	7664-93-9		1			3.23E+09					
Systhane	88671-89-0	0.1	1			3.23E+09					
TCDD, 2,3,7,8-	1746-01-6	0.03	1	2.71E+06		3.23E+09	1.50E-04	1.75E-03	1.82E-02	1.37E-04	
TCDF, 2,3,7,8-	51207-31-9	0.03	1	4.72E+06		3.23E+09	1.50E-03	1.75E-02	3.17E-01	1.38E-03	
TCMTB	21564-17-0	0.1	1			3.23E+09					
Tebuthiuron	34014-18-1	0.1	1			3.23E+09					
Technetium	7440-26-8		1			3.23E+09					
Tellurium	13494-80-9		1			3.23E+09					
Temephos	3383-96-8	0.1	1			3.23E+09					
Terbacil	5902-51-2	0.1	1			3.23E+09					
Terbufos	13071-79-9		1	3.64E+05	3.09E+01	3.23E+09					
Terbutryn	886-50-0	0.1	1			3.23E+09					
Tetrabutyl Lead	1920-90-7		1	6.41E+03		3.23E+09					
Tetrachloroaniline, 2,3,5,6-	3481-20-7	0.1	1			3.23E+09					
Tetrachlorobenzene, 1,2,3,4-	634-66-2		1	8.26E+04		3.23E+09					
Tetrachlorobenzene, 1,2,4,5-	95-94-3		1	6.99E+04		3.23E+09					
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3	0.14	1			3.23E+09	1.50E+00	3.76E+00	2.17E+05	1.07E+00	
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4	0.14	1	1.00E+06		3.23E+09	5.01E-01	1.25E+00	2.24E+01	3.52E-01	
Tetrachloroethane, 1,1,1,2-	630-20-6		1	7.83E+03	6.80E+02	3.23E+09	7.52E+02		2.70E+02	1.99E+02	

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Sodium tripolyphosphate	7758-29-4				3.26E+08			3.26E+08	3.26E+08 max
Stearyl Acetate	822-23-1								
Stirofos (Tetrachlorovinphos)	961-11-5				2.01E+05	7.03E+05		1.56E+05	6.33E+02 ca
Strontium Chromate	7789-06-2				1.34E+05		5.66E+07	1.34E+05	1.32E+01 ca
Strontium, Stable	7440-24-6				4.02E+06			4.02E+06	4.02E+06 max
Strychnine	57-24-9				2.01E+03	7.03E+03		1.56E+03	1.56E+03 nc
Styrene	100-42-5				1.34E+06		1.13E+06	6.14E+05	6.14E+05 sat
Styrene-Acrylonitrile (SAN) Trimer	NA				2.01E+04	7.03E+04		1.56E+04	1.56E+04 nc
Sulfate	14808-79-8								
Sulfide	18496-25-8								
Sulfolane	126-33-0				6.70E+03	2.34E+04	5.66E+08	5.21E+03	5.21E+03 nc
Sulfonylbis(4-chlorobenzene), 1,1'-	80-07-9				5.36E+03	1.88E+04		4.17E+03	4.17E+03 nc
Sulfur	7704-34-9								
Sulfur Dioxide	7446-09-5								
Sulfur Mustard	505-60-2								
Sulfur Trioxide	7446-11-9						2.83E+08	2.83E+08	2.83E+08 max
Sulfuric Acid	7664-93-9						2.83E+08	2.83E+08	2.83E+08 max
Systhane	88671-89-0				1.68E+05	5.86E+05		1.30E+05	1.30E+05 max
TCDD, 2,3,7,8-	1746-01-6				4.69E-03	5.47E-02	9.48E+00	4.32E-03	1.37E-04 ca*
TCDF, 2,3,7,8-	51207-31-9				4.69E-02	5.47E-01	1.65E+02	4.32E-02	1.38E-03 ca*
TCMTB	21564-17-0				2.01E+05	7.03E+05		1.56E+05	1.56E+05 max
Tebuthiuron	34014-18-1				4.69E+05	1.64E+06		3.65E+05	3.65E+05 max
Technetium	7440-26-8								
Tellurium	13494-80-9								
Temephos	3383-96-8				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Terbacil	5902-51-2				8.71E+04	3.05E+05		6.78E+04	6.78E+04 nc
Terbufos	13071-79-9				1.68E+02			1.68E+02	1.68E+02 sat
Terbutryn	886-50-0				6.70E+03	2.34E+04		5.21E+03	5.21E+03 nc
Tetrabutyl Lead	1920-90-7								
Tetrachloroaniline, 2,3,5,6-	3481-20-7								
Tetrachlorobenzene, 1,2,3,4-	634-66-2								
Tetrachlorobenzene, 1,2,4,5-	95-94-3				2.01E+03			2.01E+03	2.01E+03 nc
Tetrachlorobiphenyl, 3,3',4,4'- (PCB 77)	32598-13-3				4.69E+01	1.17E+02	1.13E+08	3.35E+01	1.07E+00 ca*
Tetrachlorobiphenyl, 3,4,4',5- (PCB 81)	70362-50-4				1.56E+01	3.90E+01	1.17E+04	1.11E+01	3.52E-01 ca*
Tetrachloroethane, 1,1,1,2-	630-20-6				2.01E+05			2.01E+05	1.99E+02 ca

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Tetrachloroethane, 1,1,2,2-	79-34-5	No	Yes	2.00E-01	U	5.80E-05	U	2.00E-02	U			1
Tetrachloroethylene	127-18-4	No	Yes	2.10E-03	U	2.60E-07	U	6.00E-03	U	4.00E-02	U	1
Tetrachlorophenol, 2,3,4,5-	4901-51-3	No	No									1
Tetrachlorophenol, 2,3,4,6-	58-90-2	No	No					3.00E-02	U			1
Tetrachlorophenols (total)	25167-83-3	No	No									1
Tetrachloroterephthalate, 2,3,5,6-	2136-79-0	No	No									1
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1	No	Yes	2.00E+01	U							1
Tetraethyl Dithiopyrophosphate	3689-24-5	No	No					5.00E-04	U			1
Tetraethyl Lead	78-00-2	No	Yes					1.00E-07	U			1
Tetrafluoroethane, 1,1,1,2-	811-97-2	No	Yes							8.00E+01	U	1
Tetrahydrofuran	109-99-9	No	Yes					9.00E-01	U	2.00E+00	U	1
Tetrahydrothiophene	110-01-0	No	Yes									1
Tetramethyl Lead	75-74-1	No	Yes									1
Tetramethylcyclohexane	30501-43-0	No	Yes									1
Tetrapotassium phosphate	7320-34-5	No	No					4.86E+01	U			1
Tetrapropyl Lead	3440-75-3	No	Yes									1
Tetrasodium pyrophosphate	7722-88-5	No	No					4.86E+01	U			1
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	No	No					2.00E-03	U			1
Thallic Oxide	1314-32-5	No	No									1
Thallium (I) Nitrate	10102-45-1	No	No					7.00E-06	U			1
Thallium (Soluble Salts)	7440-28-0	No	No					1.00E-05	U			1
Thallium Acetate	563-68-8	No	No					6.00E-06	U			1
Thallium Carbonate	6533-73-9	No	No					2.00E-05	U			1
Thallium Chloride	7791-12-0	No	No					6.00E-06	U			1
Thallium Selenite	12039-52-0	No	No									1
Thallium Sulfate	7446-18-6	No	No					2.00E-05	U			1
Thiobencarb	28249-77-6	No	No					1.00E-02	U			1
Thiocyanates	NA	No	No					2.00E-04	U			1
Thiocyanic Acid	463-56-9	No	Yes					2.00E-04	U			1
Thiodiglycol	111-48-8	No	No					7.00E-02	U			1
Thiofanox	39196-18-4	No	No					3.00E-04	U			1
Thiophanate, Methyl	23564-05-8	No	No					8.00E-02	U			1
Thiophene	110-02-1	No	Yes									1
Thiram	137-26-8	No	No					5.00E-03	U			1
Thorium	NA	No	No									1

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Tetrachloroethane, 1,1,2,2-	79-34-5		1	2.08E+04	1.90E+03	3.23E+09	9.77E+01		9.18E+01	4.73E+01	
Tetrachloroethylene	127-18-4		1	3.24E+03	1.66E+02	3.23E+09	9.31E+03		3.18E+03	2.37E+03	
Tetrachlorophenol, 2,3,4,5-	4901-51-3	0.1	1			3.23E+09					
Tetrachlorophenol, 2,3,4,6-	58-90-2	0.1	1			3.23E+09					
Tetrachlorophenols (total)	25167-83-3	0.1	1			3.23E+09					
Tetrachloroterephthalate, 2,3,5,6-	2136-79-0	0.1	1			3.23E+09					
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1		1	1.46E+05		3.23E+09	9.77E-01			9.77E-01	
Tetraethyl Dithiopyrophosphate	3689-24-5	0.1	1			3.23E+09					
Tetraethyl Lead	78-00-2		1	2.64E+03	2.43E+00	3.23E+09					
Tetrafluoroethane, 1,1,1,2-	811-97-2		1	1.68E+03	1.09E+03	3.23E+09					
Tetrahydrofuran	109-99-9	0.03	1	1.69E+04	1.65E+05	3.23E+09					
Tetrahydrothiophene	110-01-0		1	1.81E+04	3.44E+03	3.23E+09					
Tetramethyl Lead	75-74-1		1	1.89E+03	3.64E+01	3.23E+09					
Tetramethylcyclohexane	30501-43-0		1			3.23E+09					
Tetrapotassium phosphate	7320-34-5		1			3.23E+09					
Tetrapropyl Lead	3440-75-3		1	3.65E+03		3.23E+09					
Tetrasodium pyrophosphate	7722-88-5		1			3.23E+09					
Tetryl (Trinitrophenylmethylnitramine)	479-45-8	0.00065	1			3.23E+09					
Thallic Oxide	1314-32-5		1			3.23E+09					
Thallium (I) Nitrate	10102-45-1		1			3.23E+09					
Thallium (Soluble Salts)	7440-28-0		1			3.23E+09					
Thallium Acetate	563-68-8	0.1	1			3.23E+09					
Thallium Carbonate	6533-73-9	0.1	1			3.23E+09					
Thallium Chloride	7791-12-0		1			3.23E+09					
Thallium Selenite	12039-52-0		1			3.23E+09					
Thallium Sulfate	7446-18-6		1			3.23E+09					
Thiobencarb	28249-77-6	0.1	1			3.23E+09					
Thiocyanates	NA		1			3.23E+09					
Thiocyanic Acid	463-56-9		1			3.23E+09					
Thiodiglycol	111-48-8	0.0075	1			3.23E+09					
Thiofanox	39196-18-4	0.1	1			3.23E+09					
Thiophanate, Methyl	23564-05-8	0.1	1			3.23E+09					
Thiophene	110-02-1		1	5.77E+03	1.80E+03	3.23E+09					
Thiram	137-26-8	0.1	1			3.23E+09					
Thorium	NA		1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Tetrachloroethane, 1,1,2,2-	79-34-5				1.34E+05			1.34E+05	4.73E+01 ca
Tetrachloroethylene	127-18-4				4.02E+04		1.13E+04	8.85E+03	2.37E+03 sat
Tetrachlorophenol, 2,3,4,5-	4901-51-3								
Tetrachlorophenol, 2,3,4,6-	58-90-2				2.01E+05	7.03E+05		1.56E+05	1.56E+05 max
Tetrachlorophenols (total)	25167-83-3								
Tetrachloroterephthalate, 2,3,5,6-	2136-79-0								
Tetrachlorotoluene, p- alpha, alpha, alpha-	5216-25-1								9.77E-01 ca
Tetraethyl Dithiopyrophosphate	3689-24-5				3.35E+03	1.17E+04		2.61E+03	2.61E+03 nc
Tetraethyl Lead	78-00-2				6.70E-01			6.70E-01	6.70E-01 nc
Tetrafluoroethane, 1,1,1,2-	811-97-2						1.18E+07	1.18E+07	1.18E+07 sat
Tetrahydrofuran	109-99-9				6.03E+06	7.03E+07	2.95E+06	1.93E+06	1.93E+06 sat
Tetrahydrothiophene	110-01-0								
Tetramethyl Lead	75-74-1								
Tetramethylcyclohexane	30501-43-0								
Tetrapotassium phosphate	7320-34-5				3.26E+08			3.26E+08	3.26E+08 max
Tetrapropyl Lead	3440-75-3								
Tetrasodium pyrophosphate	7722-88-5				3.26E+08			3.26E+08	3.26E+08 max
Tetryl (Trinitrophenylmethylnitramine)	479-45-8				1.34E+04	7.22E+06		1.34E+04	1.34E+04 nc
Thallic Oxide	1314-32-5								
Thallium (I) Nitrate	10102-45-1				4.69E+01			4.69E+01	4.69E+01 nc
Thallium (Soluble Salts)	7440-28-0				6.70E+01			6.70E+01	6.70E+01 nc
Thallium Acetate	563-68-8				4.02E+01	1.41E+02		3.13E+01	3.13E+01 nc
Thallium Carbonate	6533-73-9				1.34E+02	4.69E+02		1.04E+02	1.04E+02 nc
Thallium Chloride	7791-12-0				4.02E+01			4.02E+01	4.02E+01 nc
Thallium Selenite	12039-52-0								
Thallium Sulfate	7446-18-6				1.34E+02			1.34E+02	1.34E+02 nc
Thiobencarb	28249-77-6				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Thiocyanates	NA				1.34E+03			1.34E+03	1.34E+03 nc
Thiocyanic Acid	463-56-9				1.34E+03			1.34E+03	1.34E+03 nc
Thiodiglycol	111-48-8				4.69E+05	2.19E+07		4.59E+05	4.59E+05 max
Thiofanox	39196-18-4				2.01E+03	7.03E+03		1.56E+03	1.56E+03 nc
Thiophanate, Methyl	23564-05-8				5.36E+05	1.88E+06		4.17E+05	4.17E+05 max
Thiophene	110-02-1								
Thiram	137-26-8				3.35E+04	1.17E+05		2.61E+04	2.61E+04 nc
Thorium	NA								

Site-specific
Recreator Screening Levels (RSL) for Soil
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Thymol	89-83-8	No	No									1
Tin	7440-31-5	No	No					6.00E-01	U			1
Titanium	7440-32-6	No	No									1
Titanium Tetrachloride	7550-45-0	No	Yes							1.00E-04	U	1
Toluene	108-88-3	No	Yes					8.00E-02	U	5.00E+00	U	1
Toluene-2,5-diamine	95-70-5	No	No	1.80E-01	U			2.00E-04	U			1
Toluenediamine, 2,3-	2687-25-4	No	No									1
Toluenediamine, 3,4-	496-72-0	No	No									1
Toluidine, p-	106-49-0	No	No	3.00E-02	U			4.00E-03	U			1
Total Petroleum Hydrocarbons (Aliphatic High)	NA	No	Yes					3.00E+00	U			1
Total Petroleum Hydrocarbons (Aliphatic Low)	NA	No	Yes							6.00E-01	U	1
Total Petroleum Hydrocarbons (Aliphatic Medium)	NA	No	Yes					1.00E-02	U	1.00E-01	U	1
Total Petroleum Hydrocarbons (Aromatic High)	NA	No	No					4.00E-02	U			1
Total Petroleum Hydrocarbons (Aromatic Low)	NA	No	Yes					4.00E-03	U	3.00E-02	U	1
Total Petroleum Hydrocarbons (Aromatic Medium)	NA	No	Yes					4.00E-03	U	3.00E-03	U	1
Toxaphene	8001-35-2	No	No	1.10E+00	U	3.20E-04	U					1
Tralomethrin	66841-25-6	No	No					7.50E-03	U			1
Tri-n-butyltin	688-73-3	No	Yes					3.00E-04	U			1
Triacetin	102-76-1	No	No					8.00E+01	U			1
Triallate	2303-17-5	No	Yes					1.30E-02	U			1
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5	No	No					4.86E+01	U			1
Triasulfuron	82097-50-5	No	No					1.00E-02	U			1
Triaziquone	68-76-8	No	No									1
Tribromobenzene, 1,2,4-	615-54-3	No	Yes					5.00E-03	U			1
Tribromochloromethane	594-15-0	No	Yes									1
Tribromodiphenyl Ether	49690-94-0	No	Yes									1
Tribromophenol, 2,4,6-	118-79-6	No	No									1
Tributyl Phosphate	126-73-8	No	No	9.00E-03	U			1.00E-02	U			1
Tributyltin	56573-85-4	No	Yes									1
Tributyltin Compounds	NA	No	No					3.00E-04	U			1
Tributyltin Oxide	56-35-9	No	No					3.00E-04	U			1
Tributyltin chloride	1461-22-9	No	Yes									1

Site-specific
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Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Thymol	89-83-8	0.1	1			3.23E+09					
Tin	7440-31-5		1			3.23E+09					
Titanium	7440-32-6		1			3.23E+09					
Titanium Tetrachloride	7550-45-0		1			3.23E+09					
Toluene	108-88-3		1	5.92E+03	8.18E+02	3.23E+09					
Toluene-2,5-diamine	95-70-5	0.1	1			3.23E+09	1.09E+02	3.80E+02		8.45E+01	
Toluenediamine, 2,3-	2687-25-4	0.1	1			3.23E+09					
Toluenediamine, 3,4-	496-72-0	0.1	1			3.23E+09					
Toluidine, p-	106-49-0	0.1	1			3.23E+09	6.52E+02	2.28E+03		5.07E+02	
Total Petroleum Hydrocarbons (Aliphatic High)	NA		1	1.46E+03	3.41E-01	3.23E+09					
Total Petroleum Hydrocarbons (Aliphatic Low)	NA		1	1.14E+03	1.41E+02	3.23E+09					
Total Petroleum Hydrocarbons (Aliphatic Medium)	NA		1	1.44E+03	6.86E+00	3.23E+09					
Total Petroleum Hydrocarbons (Aromatic High)	NA	0.1	1			3.23E+09					
Total Petroleum Hydrocarbons (Aromatic Low)	NA		1	4.88E+03	1.82E+03	3.23E+09					
Total Petroleum Hydrocarbons (Aromatic Medium)	NA		1	7.23E+04		3.23E+09					
Toxaphene	8001-35-2	0.1	1			3.23E+09	1.78E+01	6.22E+01	2.58E+06	1.38E+01	
Tralomethrin	66841-25-6	0.1	1			3.23E+09					
Tri-n-butyltin	688-73-3		1	4.63E+03		3.23E+09					
Triacetin	102-76-1	0.1	1			3.23E+09					
Triallate	2303-17-5		1	5.00E+05		3.23E+09					
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5		1			3.23E+09					
Triasulfuron	82097-50-5	0.1	1			3.23E+09					
Triaziquone	68-76-8	0.1	1			3.23E+09					
Tribromobenzene, 1,2,4-	615-54-3		1	6.24E+04		3.23E+09					
Tribromochloromethane	594-15-0		1	5.65E+04		3.23E+09					
Tribromodiphenyl Ether	49690-94-0		1	1.07E+06		3.23E+09					
Tribromophenol, 2,4,6-	118-79-6	0.1	1			3.23E+09					
Tributyl Phosphate	126-73-8	0.1	1			3.23E+09	2.17E+03	7.60E+03		1.69E+03	
Tributyltin	56573-85-4		1	4.95E+04		3.23E+09					
Tributyltin Compounds	NA	0.1	1			3.23E+09					
Tributyltin Oxide	56-35-9	0.1	1			3.23E+09					
Tributyltin chloride	1461-22-9		1	5.94E+03		3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Thymol	89-83-8								
Tin	7440-31-5				4.02E+06			4.02E+06	4.02E+06 max
Titanium	7440-32-6								
Titanium Tetrachloride	7550-45-0						2.83E+07	2.83E+07	2.83E+07 max
Toluene	108-88-3				5.36E+05		2.59E+06	4.44E+05	4.44E+05 sat
Toluene-2,5-diamine	95-70-5				1.34E+03	4.69E+03		1.04E+03	8.45E+01 ca*
Toluenediamine, 2,3-	2687-25-4								
Toluenediamine, 3,4-	496-72-0								
Toluidine, p-	106-49-0				2.68E+04	9.38E+04		2.08E+04	5.07E+02 ca*
Total Petroleum Hydrocarbons (Aliphatic High)	NA				2.01E+07			2.01E+07	2.01E+07 sat
Total Petroleum Hydrocarbons (Aliphatic Low)	NA						6.01E+04	6.01E+04	6.01E+04 sat
Total Petroleum Hydrocarbons (Aliphatic Medium)	NA				6.70E+04		1.26E+04	1.06E+04	1.06E+04 sat
Total Petroleum Hydrocarbons (Aromatic High)	NA				2.68E+05	9.38E+05		2.08E+05	2.08E+05 max
Total Petroleum Hydrocarbons (Aromatic Low)	NA				2.68E+04		1.28E+04	8.67E+03	8.67E+03 sat
Total Petroleum Hydrocarbons (Aromatic Medium)	NA				2.68E+04		1.90E+04	1.11E+04	1.11E+04 nc
Toxaphene	8001-35-2								1.38E+01 ca
Tralomethrin	66841-25-6				5.03E+04	1.76E+05		3.91E+04	3.91E+04 nc
Tri-n-butyltin	688-73-3				2.01E+03			2.01E+03	2.01E+03 nc
Triacetin	102-76-1				5.36E+08	1.88E+09		4.17E+08	4.17E+08 max
Triallate	2303-17-5				8.71E+04			8.71E+04	8.71E+04 nc
Trialuminum sodium tetra decahydrogenoctaorthophosphate (dihydrate)	15136-87-5				3.26E+08			3.26E+08	3.26E+08 max
Triasulfuron	82097-50-5				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Triaziquone	68-76-8								
Tribromobenzene, 1,2,4-	615-54-3				3.35E+04			3.35E+04	3.35E+04 nc
Tribromochloromethane	594-15-0								
Tribromodiphenyl Ether	49690-94-0								
Tribromophenol, 2,4,6-	118-79-6								
Tributyl Phosphate	126-73-8				6.70E+04	2.34E+05		5.21E+04	1.69E+03 ca*
Tributyltin	56573-85-4								
Tributyltin Compounds	NA				2.01E+03	7.03E+03		1.56E+03	1.56E+03 nc
Tributyltin Oxide	56-35-9				2.01E+03	7.03E+03		1.56E+03	1.56E+03 nc
Tributyltin chloride	1461-22-9								

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Tributyltin fluoride	1983-10-4	No	Yes									1
Tributyltin linoleate	24124-25-2	No	Yes									1
Tributyltin methacrylate	2155-70-6	No	Yes									1
Tributyltin naphthenate	85409-17-2	No	No									1
Tricaine Methanesulfonate	886-86-2	No	No									1
Tricalcium phosphate	7758-87-4	No	No					4.86E+01	U			1
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1	No	Yes					3.00E+01	U	3.00E+01	U	1
Trichloro-2'-hydroxydiphenylether	3380-34-5	No	No									1
Trichloroacetic Acid	76-03-9	No	No	7.00E-02	U			2.00E-02	U			1
Trichloroaniline HCl, 2,4,6-	33663-50-2	No	No	2.90E-02	U							1
Trichloroaniline, 2,4,5-	636-30-6	No	No									1
Trichloroaniline, 2,4,6-	634-93-5	No	No	7.00E-03	U			3.00E-05	U			1
Trichlorobenzene	12002-48-1	No	Yes									1
Trichlorobenzene, 1,2,3-	87-61-6	No	Yes					8.00E-04	U			1
Trichlorobenzene, 1,2,4-	120-82-1	No	Yes	2.90E-02	U			1.00E-02	U	2.00E-03	U	1
Trichloroethane, 1,1,1-	71-55-6	No	Yes					2.00E+00	U	5.00E+00	U	1
Trichloroethane, 1,1,2-	79-00-5	No	Yes	5.70E-02	U	1.60E-05	U	4.00E-03	U	2.00E-04	U	1
Trichloroethylene	79-01-6	Yes	Yes	4.60E-02	U	4.10E-06	U	5.00E-04	U	2.00E-03	U	1
Trichlorofluoromethane	75-69-4	No	Yes					3.00E-01	U	7.00E-01	U	1
Trichlorophenol, 2,4,5-	95-95-4	No	No					1.00E-01	U			1
Trichlorophenol, 2,4,6-	88-06-2	No	No	1.10E-02	U	3.10E-06	U	1.00E-03	U			1
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	No	No					1.00E-02	U			1
Trichlorophenoxyacetic acid, 2,4,5- Amine Salts, PARENT (2,4,5-T)	NA	No	No									1
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	No	No					8.00E-03	U			1
Trichloropropane, 1,1,2-	598-77-6	No	Yes					5.00E-03	U			1
Trichloropropane, 1,2,3-	96-18-4	Yes	Yes	3.00E+01	U			4.00E-03	U	3.00E-04	U	1
Trichloropropene, 1,2,3-	96-19-5	No	Yes					3.00E-03	U	3.00E-04	U	1
Trichlorotoluene, 2,3,6-	2077-46-5	No	Yes									1
Trichlorotoluene, alpha 2,6-	2014-83-7	No	Yes									1
Triclorophenols (total)	NA	No	No									1
Tricresyl Phosphate (TCP)	1330-78-5	No	No					2.00E-02	U			1
Tridiphane	58138-08-2	No	No					3.00E-03	U			1
Tridymite	15468-32-3	Yes	No									1
Triethyl Lead	5224-23-7	No	Yes									1

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Tributyltin fluoride	1983-10-4		1	8.59E+03		3.23E+09					
Tributyltin linoleate	24124-25-2		1	1.67E+05		3.23E+09					
Tributyltin methacrylate	2155-70-6		1	1.41E+04		3.23E+09					
Tributyltin naphthenate	85409-17-2	0.1	1			3.23E+09					
Tricaine Methanesulfonate	886-86-2	0.1	1			3.23E+09					
Tricalcium phosphate	7758-87-4		1			3.23E+09					
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1		1	1.77E+03	9.10E+02	3.23E+09					
Trichloro-2'-hydroxydiphenylether	3380-34-5	0.1	1			3.23E+09					
Trichloroacetic Acid	76-03-9	0.1	1			3.23E+09	2.79E+02	9.77E+02		2.17E+02	
Trichloroaniline HCl, 2,4,6-	33663-50-2	0.1	1			3.23E+09	6.74E+02	2.36E+03		5.24E+02	
Trichloroaniline, 2,4,5-	636-30-6	0.1	1			3.23E+09					
Trichloroaniline, 2,4,6-	634-93-5	0.1	1			3.23E+09	2.79E+03	9.77E+03		2.17E+03	
Trichlorobenzene	12002-48-1		1	3.55E+04		3.23E+09					
Trichlorobenzene, 1,2,3-	87-61-6		1	4.44E+04		3.23E+09					
Trichlorobenzene, 1,2,4-	120-82-1		1	4.13E+04	4.05E+02	3.23E+09	6.74E+02			6.74E+02	
Trichloroethane, 1,1,1-	71-55-6		1	2.27E+03	6.40E+02	3.23E+09					
Trichloroethane, 1,1,2-	79-00-5		1	9.95E+03	2.16E+03	3.23E+09	3.43E+02		1.59E+02	1.09E+02	
Trichloroethylene	79-01-6		1	3.04E+03	6.92E+02	3.23E+09	3.04E+02		1.58E+02	1.04E+02	
Trichlorofluoromethane	75-69-4		1	1.43E+03	1.23E+03	3.23E+09					
Trichlorophenol, 2,4,5-	95-95-4	0.1	1			3.23E+09					
Trichlorophenol, 2,4,6-	88-06-2	0.1	1			3.23E+09	1.78E+03	6.22E+03	2.66E+08	1.38E+03	
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5	0.1	1			3.23E+09					
Trichlorophenoxyacetic acid, 2,4,5- Amine Salts, PARENT (2,4,5-T)	NA		1			3.23E+09					
Trichlorophenoxypropionic acid, -2,4,5	93-72-1	0.1	1			3.23E+09					
Trichloropropane, 1,1,2-	598-77-6		1	2.07E+04	1.28E+03	3.23E+09					
Trichloropropane, 1,2,3-	96-18-4		1	2.17E+04	1.40E+03	3.23E+09	2.21E-01			2.21E-01	
Trichloropropene, 1,2,3-	96-19-5		1	3.23E+03	4.51E+02	3.23E+09					
Trichlorotoluene, 2,3,6-	2077-46-5		1	5.83E+04		3.23E+09					
Trichlorotoluene, alpha 2,6-	2014-83-7		1	9.70E+04		3.23E+09					
Triclorophenols (total)	NA	0.1	1			3.23E+09					
Tricresyl Phosphate (TCP)	1330-78-5	0.1	1			3.23E+09					
Tridiphane	58138-08-2	0.1	1			3.23E+09					
Tridymite	15468-32-3		1			3.23E+09					
Triethyl Lead	5224-23-7		1	1.80E+03	5.67E+03	3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Tributyltin fluoride	1983-10-4								
Tributyltin linoleate	24124-25-2								
Tributyltin methacrylate	2155-70-6								
Tributyltin naphthenate	85409-17-2								
Tricaine Methanesulfonate	886-86-2								
Tricalcium phosphate	7758-87-4				3.26E+08			3.26E+08	3.26E+08 max
Trichloro-1,2,2-trifluoroethane, 1,1,2-	76-13-1				2.01E+08		4.66E+06	4.55E+06	4.55E+06 sat
Trichloro-2'-hydroxydiphenylether	3380-34-5								
Trichloroacetic Acid	76-03-9				1.34E+05	4.69E+05		1.04E+05	2.17E+02 ca
Trichloroaniline HCl, 2,4,6-	33663-50-2								5.24E+02 ca
Trichloroaniline, 2,4,5-	636-30-6								
Trichloroaniline, 2,4,6-	634-93-5				2.01E+02	7.03E+02		1.56E+02	1.56E+02 nc
Trichlorobenzene	12002-48-1								
Trichlorobenzene, 1,2,3-	87-61-6				5.36E+03			5.36E+03	5.36E+03 nc
Trichlorobenzene, 1,2,4-	120-82-1				6.70E+04		7.24E+03	6.53E+03	6.74E+02 sat
Trichloroethane, 1,1,1-	71-55-6				1.34E+07		9.96E+05	9.27E+05	9.27E+05 sat
Trichloroethane, 1,1,2-	79-00-5				2.68E+04		1.74E+02	1.73E+02	1.09E+02 ca**
Trichloroethylene	79-01-6				3.35E+03		5.33E+02	4.60E+02	1.04E+02 ca**
Trichlorofluoromethane	75-69-4				2.01E+06		8.76E+04	8.39E+04	8.39E+04 sat
Trichlorophenol, 2,4,5-	95-95-4				6.70E+05	2.34E+06		5.21E+05	5.21E+05 max
Trichlorophenol, 2,4,6-	88-06-2				6.70E+03	2.34E+04		5.21E+03	1.38E+03 ca**
Trichlorophenoxyacetic Acid, 2,4,5-	93-76-5				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Trichlorophenoxyacetic acid, 2,4,5- Amine Salts, PARENT (2,4,5-T)	NA								
Trichlorophenoxypropionic acid, -2,4,5	93-72-1				5.36E+04	1.88E+05		4.17E+04	4.17E+04 nc
Trichloropropane, 1,1,2-	598-77-6				3.35E+04			3.35E+04	3.35E+04 sat
Trichloropropane, 1,2,3-	96-18-4				2.68E+04		5.70E+02	5.58E+02	2.21E-01 ca
Trichloropropene, 1,2,3-	96-19-5				2.01E+04		8.48E+01	8.44E+01	8.44E+01 nc
Trichlorotoluene, 2,3,6-	2077-46-5								
Trichlorotoluene, alpha 2,6-	2014-83-7								
Triclorophenols (total)	NA								
Tricresyl Phosphate (TCP)	1330-78-5				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Tridiphane	58138-08-2				2.01E+04	7.03E+04		1.56E+04	1.56E+04 nc
Tridymite	15468-32-3								
Triethyl Lead	5224-23-7								

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Triethyl phosphorothioate [O,O,O-]	126-68-1	No	Yes									1
Triethylamine	121-44-8	No	Yes							7.00E-03	U	1
Triethylene Glycol	112-27-6	No	No					2.00E+00	U			1
Trifluralin	1582-09-8	No	Yes	7.70E-03	U			7.50E-03	U			1
Trimagnesium phosphate	7757-87-1	No	No					4.86E+01	U			1
Trimethyl Lead	7442-13-9	No	Yes									1
Trimethyl Phosphate	512-56-1	No	No	2.00E-02	U			1.00E-02	U			1
Trimethyl-4-Propenylnaphthalene, 1,2,3-	26137-53-1	No	Yes									1
Trimethylbenzene, 1,2,3-	526-73-8	No	Yes							5.00E-03	U	1
Trimethylbenzene, 1,2,4-	95-63-6	No	Yes							7.00E-03	U	1
Trimethylbenzene, 1,3,5-	108-67-8	No	Yes					1.00E-02	U			1
Trimethylethyl Lead	1762-26-1	No	Yes									1
Trimethylpentane, 2,2,4-	540-84-1	No	Yes									1
Trinitrobenzene, 1,3,5-	99-35-4	No	No					3.00E-02	U			1
Trinitrotoluene, 2,4,6-	118-96-7	No	No	3.00E-02	U			5.00E-04	U			1
Triphenylphosphine Oxide	791-28-6	No	No					2.00E-02	U			1
Triphenyltin	668-34-8	No	Yes									1
Tripotassium phosphate	7778-53-2	No	No					4.86E+01	U			1
Tripropyl Lead	6618-03-7	No	Yes									1
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	No	No					2.00E-02	U			1
Tris(1-chloro-2-propyl)phosphate	13674-84-5	No	No					1.00E-02	U			1
Tris(2,3-dibromopropyl)phosphate	126-72-7	No	Yes	2.30E+00	U	6.60E-04	U					1
Tris(2-chloroethyl)phosphate	115-96-8	No	No	2.00E-02	U			7.00E-03	U			1
Tris(2-ethylhexyl)phosphate	78-42-2	No	No	3.20E-03	U			1.00E-01	U			1
Trisbutoxyethyl Phosphate	78-51-3	No	No									1
Trisodium phosphate	7601-54-9	No	No					4.86E+01	U			1
Trithion	786-19-6	No	No									1
Tungsten	7440-33-7	No	No									1
Uranium (Soluble Salts)	NA	No	No					3.00E-03	U	4.00E-05	U	1
Urea	57-13-6	No	No									1
Urethane	51-79-6	Yes	No	1.00E+00	U	2.90E-04	U					1
Vanadium Pentoxide	1314-62-1	No	No			8.30E-03	U	9.00E-03	U	7.00E-06	U	0.026
Vanadium Sulfate	36907-42-3	No	No									0.026
Vanadium and Compounds	7440-62-2	No	No					5.04E-03	U	1.00E-04	U	0.026
Vanadyl Sulfate	27774-13-6	No	No									1

Site-specific
Recreator Screening Levels (RSL) for Soil
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Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Triethyl phosphorothioate [O,O,O-]	126-68-1		1	3.87E+04	4.67E+02	3.23E+09					
Triethylamine	121-44-8		1	2.18E+04	2.78E+04	3.23E+09					
Triethylene Glycol	112-27-6	0.1	1			3.23E+09					
Trifluralin	1582-09-8		1	7.07E+05		3.23E+09	2.54E+03			2.54E+03	
Trimagnesium phosphate	7757-87-1		1			3.23E+09					
Trimethyl Lead	7442-13-9		1	1.54E+03	6.92E+04	3.23E+09					
Trimethyl Phosphate	512-56-1	0.1	1			3.23E+09	9.77E+02	3.42E+03		7.60E+02	
Trimethyl-4-Propenylnaphthalene, 1,2,3-	26137-53-1		1	6.96E+05		3.23E+09					
Trimethylbenzene, 1,2,3-	526-73-8		1	1.30E+04	2.93E+02	3.23E+09					
Trimethylbenzene, 1,2,4-	95-63-6		1	1.09E+04	2.18E+02	3.23E+09					
Trimethylbenzene, 1,3,5-	108-67-8		1	9.11E+03	1.82E+02	3.23E+09					
Trimethylethyl Lead	1762-26-1		1	1.98E+03	2.51E+04	3.23E+09					
Trimethylpentane, 2,2,4-	540-84-1		1	1.29E+03	6.10E+01	3.23E+09					
Trinitrobenzene, 1,3,5-	99-35-4	0.019	1			3.23E+09					
Trinitrotoluene, 2,4,6-	118-96-7	0.032	1			3.23E+09	6.52E+02	7.12E+03		5.97E+02	
Triphenylphosphine Oxide	791-28-6	0.1	1			3.23E+09					
Triphenyltin	668-34-8		1	2.79E+06		3.23E+09					
Tripotassium phosphate	7778-53-2		1			3.23E+09					
Tripropyl Lead	6618-03-7		1	2.30E+03	5.57E+02	3.23E+09					
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8	0.1	1			3.23E+09					
Tris(1-chloro-2-propyl)phosphate	13674-84-5	0.1	1			3.23E+09					
Tris(2,3-dibromopropyl)phosphate	126-72-7		1	1.25E+06	4.67E+02	3.23E+09	8.50E+00		4.82E+02	8.35E+00	
Tris(2-chloroethyl)phosphate	115-96-8	0.1	1			3.23E+09	9.77E+02	3.42E+03		7.60E+02	
Tris(2-ethylhexyl)phosphate	78-42-2	0.1	1			3.23E+09	6.11E+03	2.14E+04		4.75E+03	
Trisbutoxyethyl Phosphate	78-51-3	0.1	1			3.23E+09					
Trisodium phosphate	7601-54-9		1			3.23E+09					
Trithion	786-19-6	0.1	1			3.23E+09					
Tungsten	7440-33-7		1			3.23E+09					
Uranium (Soluble Salts)	NA		1			3.23E+09					
Urea	57-13-6	0.1	1			3.23E+09					
Urethane	51-79-6	0.1	1			3.23E+09	6.64E+00	4.50E+01	1.55E+06	5.79E+00	
Vanadium Pentoxide	1314-62-1		1			3.23E+09			9.95E+04	9.95E+04	
Vanadium Sulfate	36907-42-3		1			3.23E+09					
Vanadium and Compounds	7440-62-2		1			3.23E+09					
Vanadyl Sulfate	27774-13-6		1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Triethyl phosphorothioate [O,O,O-]	126-68-1								
Triethylamine	121-44-8						1.34E+04	1.34E+04	1.34E+04 nc
Triethylene Glycol	112-27-6				1.34E+07	4.69E+07		1.04E+07	1.04E+07 max
Trifluralin	1582-09-8				5.03E+04			5.03E+04	2.54E+03 ca*
Trimagnesium phosphate	7757-87-1				3.26E+08			3.26E+08	3.26E+08 max
Trimethyl Lead	7442-13-9								
Trimethyl Phosphate	512-56-1				6.70E+04	2.34E+05		5.21E+04	7.60E+02 ca*
Trimethyl-4-Propenylnaphthalene, 1,2,3-	26137-53-1								
Trimethylbenzene, 1,2,3-	526-73-8						5.70E+03	5.70E+03	5.70E+03 sat
Trimethylbenzene, 1,2,4-	95-63-6						6.69E+03	6.69E+03	6.69E+03 sat
Trimethylbenzene, 1,3,5-	108-67-8				6.70E+04			6.70E+04	6.70E+04 sat
Trimethylethyl Lead	1762-26-1								
Trimethylpentane, 2,2,4-	540-84-1								
Trinitrobenzene, 1,3,5-	99-35-4				2.01E+05	3.70E+06		1.91E+05	1.91E+05 max
Trinitrotoluene, 2,4,6-	118-96-7				3.35E+03	3.66E+04		3.07E+03	5.97E+02 ca**
Triphenylphosphine Oxide	791-28-6				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Triphenyltin	668-34-8								
Tripotassium phosphate	7778-53-2				3.26E+08			3.26E+08	3.26E+08 max
Tripropyl Lead	6618-03-7								
Tris(1,3-Dichloro-2-propyl) Phosphate	13674-87-8				1.34E+05	4.69E+05		1.04E+05	1.04E+05 max
Tris(1-chloro-2-propyl)phosphate	13674-84-5				6.70E+04	2.34E+05		5.21E+04	5.21E+04 nc
Tris(2,3-dibromopropyl)phosphate	126-72-7								8.35E+00 ca
Tris(2-chloroethyl)phosphate	115-96-8				4.69E+04	1.64E+05		3.65E+04	7.60E+02 ca*
Tris(2-ethylhexyl)phosphate	78-42-2				6.70E+05	2.34E+06		5.21E+05	4.75E+03 ca
Trisbutoxyethyl Phosphate	78-51-3								
Trisodium phosphate	7601-54-9				3.26E+08			3.26E+08	3.26E+08 max
Trithion	786-19-6								
Tungsten	7440-33-7								
Uranium (Soluble Salts)	NA				2.01E+04		1.13E+07	2.01E+04	2.01E+04 nc
Urea	57-13-6								
Urethane	51-79-6								5.79E+00 ca
Vanadium Pentoxide	1314-62-1				6.03E+04		1.98E+06	5.85E+04	5.85E+04 nc
Vanadium Sulfate	36907-42-3								
Vanadium and Compounds	7440-62-2				3.38E+04		2.83E+07	3.37E+04	3.37E+04 nc
Vanadyl Sulfate	27774-13-6								

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,
Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Mutagen?	VOC?	Ingestion SF $(mg/kg\text{-}day)^{-1}$	SFO Ref	Inhalation Unit Risk $(ug/m^3)^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref	GIABS
Vernolate	1929-77-7	No	Yes					1.00E-03	U			1
Vinclozolin	50471-44-8	No	No					2.50E-02	U			1
Vinyl Acetate	108-05-4	No	Yes					1.00E+00	U	2.00E-01	U	1
Vinyl Bromide	593-60-2	No	Yes			3.20E-05	U			3.00E-03	U	1
Vinyl Chloride	75-01-4	Yes	Yes	7.20E-01	U	4.40E-06	U	3.00E-03	U	1.00E-01	U	1
Warfarin	81-81-2	No	No					3.00E-04	U			1
Xylene, P-	106-42-3	No	Yes					2.00E-01	U	1.00E-01	U	1
Xylene, m-	108-38-3	No	Yes					2.00E-01	U	1.00E-01	U	1
Xylene, o-	95-47-6	No	Yes					2.00E-01	U	1.00E-01	U	1
Xylenes	1330-20-7	No	Yes					2.00E-01	U	1.00E-01	U	1
Ytterbium	7440-64-4	No	No									1
Yttrium	7440-65-5	No	No									1
Zinc Cyanide	557-21-1	No	No					5.00E-02	U			1
Zinc Phosphide	1314-84-7	No	No					3.00E-04	U			1
Zinc and Compounds	7440-66-6	No	No					3.00E-01	U			1
Zineb	12122-67-7	No	No					5.00E-02	U			1
Zirconium	7440-67-7	No	No					8.00E-05	U			1

Site-specific
Recreator Screening Levels (RSL) for Soil
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ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	ABS	rba	Volatilization Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic SL TR=1.0E-6 (mg/kg)	Ingestion SL (Child) HQ=1 (mg/kg)
Vernolate	1929-77-7		1	1.70E+05		3.23E+09					
Vinclozolin	50471-44-8	0.1	1			3.23E+09					
Vinyl Acetate	108-05-4		1	6.06E+03	2.75E+03	3.23E+09					
Vinyl Bromide	593-60-2		1	1.89E+03	3.38E+03	3.23E+09			1.51E+01	1.51E+01	
Vinyl Chloride	75-01-4		1	1.32E+03	3.92E+03	3.23E+09	2.71E+01		2.98E-01	2.95E-01	
Warfarin	81-81-2	0.1	1			3.23E+09					
Xylene, P-	106-42-3		1	7.70E+03	3.89E+02	3.23E+09					
Xylene, m-	108-38-3		1	7.54E+03	3.87E+02	3.23E+09					
Xylene, o-	95-47-6		1	8.90E+03	4.34E+02	3.23E+09					
Xylenes	1330-20-7		1	8.93E+03	2.58E+02	3.23E+09					
Ytterbium	7440-64-4		1			3.23E+09					
Yttrium	7440-65-5		1			3.23E+09					
Zinc Cyanide	557-21-1		1			3.23E+09					
Zinc Phosphide	1314-84-7		1			3.23E+09					
Zinc and Compounds	7440-66-6		1			3.23E+09					
Zineb	12122-67-7	0.1	1			3.23E+09					
Zirconium	7440-67-7		1			3.23E+09					

Site-specific
Recreator Screening Levels (RSL) for Soil
ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL),
ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Gu
Smax=Soil SL exceeds ceiling limit and has been substituted with the max valu
Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	CAS Number	Dermal SL (Child) HQ=1 (mg/kg)	Inhalation SL (Child) HQ=1 (mg/kg)	Noncarcinogenic SL (Child) HI=1 (mg/kg)	Ingestion SL (Adult) HQ=1 (mg/kg)	Dermal SL (Adult) HQ=1 (mg/kg)	Inhalation SL (Adult) HQ=1 (mg/kg)	Noncarcinogenic SL (Adult) HI=1 (mg/kg)	Screening Level (mg/kg)
Vernolate	1929-77-7				6.70E+03			6.70E+03	6.70E+03 nc
Vinclozolin	50471-44-8				1.68E+05	5.86E+05		1.30E+05	1.30E+05 max
Vinyl Acetate	108-05-4				6.70E+06		1.06E+05	1.05E+05	1.05E+05 sat
Vinyl Bromide	593-60-2						4.96E+02	4.96E+02	1.51E+01 ca*
Vinyl Chloride	75-01-4				2.01E+04		1.15E+04	7.33E+03	2.95E-01 ca
Warfarin	81-81-2				2.01E+03	7.03E+03		1.56E+03	1.56E+03 nc
Xylene, P-	106-42-3				1.34E+06		6.75E+04	6.42E+04	6.42E+04 sat
Xylene, m-	108-38-3				1.34E+06		6.60E+04	6.29E+04	6.29E+04 sat
Xylene, o-	95-47-6				1.34E+06		7.80E+04	7.37E+04	7.37E+04 sat
Xylenes	1330-20-7				1.34E+06		7.82E+04	7.39E+04	7.39E+04 sat
Ytterbium	7440-64-4								
Yttrium	7440-65-5								
Zinc Cyanide	557-21-1				3.35E+05			3.35E+05	3.35E+05 max
Zinc Phosphide	1314-84-7				2.01E+03			2.01E+03	2.01E+03 nc
Zinc and Compounds	7440-66-6				2.01E+06			2.01E+06	2.01E+06 max
Zineb	12122-67-7				3.35E+05	1.17E+06		2.61E+05	2.61E+05 max
Zirconium	7440-67-7				5.36E+02			5.36E+02	5.36E+02 nc

ProUCL Input

Aroclor-1016	D_Aroclor-1016	Aroclor-1242	D_Aroclor-1242	Aroclor-1254	D_Aroclor-1254	PCB (total)	D_PCB (total)	Lead	D_Lead	Arsenic	D_Arsenic	Cadmium	D_Cadmiu	Mercury	D_Mercury
0	0	0	0	0	0	0	0	2.02	1	0.461	0	0.097	0	0.022	0
0	0	0	0	0	0	0	0	3.73	1	0.664	1	0.098	0	0.024	0
0	0	0	0	0	0	0	0	3.88	1	2.15	1	0.099	0	0.024	0
0	0	0	0	0	0	0	0	4.27	1	2.16	1	0.101	0	0.026	1
0	0	0	0	0	0	0	0	4.46	1	2.22	1	0.102	0	0.026	0
0	0	0	0	0	0	0	0	4.95	1	2.58	1	0.102	0	0.027	1
0	0	0	0	0	0	0	0	5.27	1	3.34	1	0.104	0	0.027	1
0	0	0	0	0	0	0	0	5.27	1	3.35	1	0.104	0	0.03	1
0	0	0	0	0	0	0	0	5.79	1	3.67	1	0.105	0	0.03	1
0	0	0	0	0	0	0	0	5.81	1	3.68	1	0.106	0	0.031	1
0	0	0	0	0	0	0	0	6.85	1	3.72	1	0.106	0	0.034	1
0	0	0	0	0	0	0	0	6.86	1	3.81	1	0.107	0	0.034	1
0	0	0	0	0	0	0	0	7.38	1	4.12	1	0.107	0	0.034	1
0	0	0	0	0	0	0	0	7.45	1	4.2	1	0.108	0	0.034	1
0	0	0	0	0	0	0	0	8.49	1	4.28	1	0.11	0	0.035	1
0	0	0	0	0	0	0	0	8.5	1	4.3	1	0.11	0	0.04	1
0	0	0	0	0	0	0	0	8.74	1	4.37	1	0.111	0	0.04	1
0	0	0	0	0	0	0	0	9.58	1	4.43	1	0.112	1	0.04	1
0	0	0	0	0	0	0	0	9.58	1	4.47	1	0.112	0	0.04	1
0	0	0	0	0	0	0	0	9.81	1	4.56	1	0.112	0	0.04	1
0	0	0	0	0	0	0	0	9.95	1	4.58	1	0.112	0	0.04	1
0	0	0	0	0	0	0	0	10.5	1	4.64	1	0.112	0	0.041	1
0	0	0	0	0	0	0	0	10.5	1	4.64	1	0.113	0	0.042	1
0	0	0	0	0	0	0	0	11.2	1	4.73	1	0.113	0	0.043	1
0	0	0	0	0	0	0	0	11.2	1	5.02	1	0.114	0	0.045	1
0	0	0	0	0	0	0	0	11.3	1	5.16	1	0.114	0	0.046	1
0	0	0	0	0	0	0	0	11.5	1	5.19	1	0.115	0	0.048	1
0	0	0	0	0	0	0	0	12.6	1	5.2	1	0.115	0	0.049	1
0	0	0	0	0	0	0	0	12.7	1	5.21	1	0.116	0	0.05	1
0	0	0	0	0	0	0	0	12.7	1	5.39	1	0.116	0	0.05	1
0	0	0	0	0	0	0	0	13	1	5.41	1	0.116	0	0.05	1
0	0	0	0	0	0	0	0	13.3	1	5.81	1	0.116	0	0.05	1
0	0	0	0	0	0	0	0	13.4	1	5.85	1	0.117	0	0.051	1
0	0	0	0	0	0	0	0	13.8	1	5.91	1	0.118	0	0.052	1
0	0	0	0	0	0	0	0	13.8	1	5.95	1	0.118	0	0.052	1
0	0	0	0	0	0	0	0	14.9	1	5.95	1	0.118	0	0.054	1
0	0	0	0	0	0	0	0	15.1	1	6	1	0.119	0	0.058	1
0	0	0	0	0	0	0	0	15.7	1	6.04	1	0.119	0	0.059	1
0	0	0	0	0	0	0	0	15.8	1	6.11	1	0.119	0	0.06	1
0	0	0	0	0	0	0	0	16.1	1	6.13	1	0.12	0	0.06	1
0	0	0	0	0	0	0	0	16.2	1	6.16	1	0.12	0	0.062	1
0	0	0	0	0	0	0	0	16.2	1	6.31	1	0.121	0	0.063	1
0	0	0	0	0	0	0	0	16.2	1	6.35	1	0.121	0	0.063	1
0	0	0	0	0	0	0	0	16.4	1	6.36	1	0.122	0	0.066	1
0	0	0	0	0	0	0	0	16.4	1	6.38	1	0.122	0	0.066	1
0	0	0	0	0	0	0	0	16.7	1	6.39	1	0.122	0	0.07	1
0	0	0	0	0	0	0	0	16.8	1	6.49	1	0.122	0	0.07	1
0	0	0	0	0	0	0	0	17	1	6.54	1	0.123	0	0.071	1
0	0	0	0	0	0	0	0	17.1	1	6.63	1	0.123	0	0.071	1
0	0	0	0	0	0	0	0	17.3	1	6.67	1	0.124	0	0.071	1
0	0	0	0	0	0	0	0	17.6	1	6.67	1	0.125	0	0.073	1
0	0	0	0	0	0	0	0	17.6	1	6.78	1	0.127	0	0.074	1
0	0	0	0	0	0	0	0	17.8	1	6.79	1	0.127	0	0.075	1
0	0	0	0	0	0	0	0	17.9	1	6.85	1	0.129	0	0.078	1
0	0	0	0	0	0	0	0	18	1	6.87	1	0.133	0	0.078	1
0	0	0	0	0	0	0	0	18.1	1	6.9	1	0.139	0	0.079	1
0	0	0	0	0	0	0	0	18.1	1	6.92	1	0.147	0	0.08	1
0	0	0	0	0	0	0	0	18.2	1	7.03	1	0.157	1	0.08	1
0	0	0	0	0	0	0	0	18.5	1	7.03	1	0.158	1	0.08	1
0	0	0	0	0	0	0	0	18.5	1	7.07	1	0.166	1	0.083	1
0	0	0	0	0	0	0	0	18.6	1	7.15	1	0.171	1	0.083	1
0	0	0	0	0	0	0	0	18.7	1	7.18	1	0.174	1	0.089	1
0	0	0	0	0	0	0	0	18.7	1	7.18	1	0.177	1	0.089	1
0	0	0	0	0	0	0	0	19.1	1	7.23	1	0.181	1	0.09	1
0	0	0	0	0	0	0	0	19.2	1	7.29	1	0.181	1	0.09	1
0	0	0	0	0	0	0	0	19.6	1	7.34	1	0.196	1	0.091	1
0	0	0	0	0	0	0	0	19.8	1	7.36	1	0.207	1	0.092	1
0	0	0	0	0	0	0	0	20	1	7.41	1	0.217	1	0.092	1
0	0	0	0	0	0	0	0	20.3	1	7.52	1	0.219	1	0.097	1
0	0	0	0	0	0	0	0	20.5	1	7.62	1	0.22	1	0.099	1
0	0	0	0	0	0	0	0	20.6	1	7.74	1	0.225	1	0.1	1
0	0	0	0	0	0	0	0	20.8	1	7.77	1	0.245	1	0.101	1
0	0	0	0	0	0	0	0	21.1	1	7.79	1	0.246	1	0.103	1
0	0	0	0	0	0	0	0	21.1	1	7.89	1	0.248	1	0.108	1
0	0	0	0	0	0	0	0	21.2	1	7.9	1	0.252	1	0.117	1
0	0	0	0	0	0	0	0	21.2	1	7.92	1	0.27	1	0.117	1
0	0	0	0	0	0	0	0	21.2	1	7.93	1	0.286	1	0.119	1
0	0	0	0	0	0	0	0	21.4	1	7.98	1	0.287	1	0.119	1
0	0	0	0	0	0	0	0	21.7	1	8.01	1	0.288	1	0.121	1
0	0	0	0	0	0	0	0	21.9	1	8.21	1	0.3	1	0.125	1
0	0	0	0	0	0	0	0	22	1	8.3	1	0.322	1	0.13	1
0	0	0	0	0	0	0	0	22	1	8.33	1	0.323	1	0.13	1
0	0	0	0	0	0	0	0	22.1	1	8.35	1	0.328	1	0.133	1
0	0	0	0	0	0	0	0	22.6	1	8.39	1	0.338	1	0.135	1
0	0	0	0	0	0	0	0	22.6	1	8.4	1	0.352	1	0.136	1
0	0	0	0	0	0	0	0	22.7	1	8.46	1	0.353	1	0.14	1
0	0	0	0	0	0	0	0	22.7	1	8.53	1	0.369	1	0.144	1
0	0	0	0	0	0	0	0	22.8	1	8.57	1	0.382	1	0.146	1
0	0	0	0	0	0	0	0	22.9	1	8.64	1	0.384	1	0.147	1
0	0	0	0	0	0	0	0	23.1	1	8.66	1	0.384	1	0.15	1
0	0	0	0	0	0	0	0	23.4	1	8.68	1	0.406	1	0.153	1
0	0	0	0	0	0	0	0	23.6	1	8.7	1	0.408	1	0.153	1
0	0	0	0	0	0	0	0	23.7	1	8.85	1	0.411	1	0.16	1
0	0	0	0	0	0	0	0	23.9	1	8.88	1	0.413	1	0.161	1
0	0	0	0	0	0	0	0	24.2	1	8.91	1	0.431	1	0.161	1
0	0	0	0	0	0	0	0	24.4	1	8.91	1	0.455	1	0.161	1
0	0	0	0	0	0	0	0	24.5	1	8.96	1	0.459	1	0.169	1

0	0	0	0	0	0	0	0	24.9	1	8.96	1	0.465	1	0.173	1
0	0	0	0	0	0	0	0	25	1	9.03	1	0.472	1	0.177	1
0	0	0	0	0	0	0	0	25	1	9.04	1	0.477	1	0.19	1
0	0	0	0	0	0	0	0	25.3	1	9.09	1	0.478	1	0.193	1
0	0	0	0	0	0	0	0	26	1	9.26	1	0.484	1	0.2	1
0	0	0	0	0	0	0	0	26.4	1	9.27	1	0.485	1	0.202	1
0	0	0	0	0	0	0	0	26.5	1	9.32	1	0.492	1	0.202	1
0	0	0	0	0	0	0	0	27.7	1	9.34	1	0.506	1	0.207	1
0	0	0	0	0	0	0	0	28.2	1	9.41	1	0.52	1	0.207	1
0	0	0	0	0	0	0	0	28.3	1	9.48	1	0.524	1	0.211	1
0	0	0	0	0	0	0	0	28.4	1	9.48	1	0.525	1	0.213	1
0	0	0	0	0	0	0	0	28.6	1	9.54	1	0.536	1	0.215	1
0	0	0	0	0	0	0	0	28.9	1	9.55	1	0.544	1	0.216	1
0	0	0	0	0	0	0	0	29.1	1	9.57	1	0.563	1	0.22	1
0	0	0	0	0	0	0	0	29.2	1	9.62	1	0.565	1	0.222	1
0	0	0	0	0	0	0	0	29.8	1	9.64	1	0.568	1	0.222	1
0	0	0	0	0	0	0	0	30	1	9.76	1	0.569	1	0.224	1
0	0	0	0	0	0	0	0	30.1	1	9.77	1	0.573	1	0.228	1
0	0	0	0	0	0	0	0	30.4	1	9.78	1	0.578	1	0.24	1
0	0	0	0	0	0	0	0	30.4	1	9.82	1	0.58	1	0.241	1
0	0	0	0	0	0	0	0	30.8	1	9.98	1	0.595	1	0.242	1
0	0	0	0	0	0	0	0	31.6	1	10.1	1	0.616	1	0.244	1
0	0	0	0	0	0	0	0	31.7	1	10.2	1	0.626	1	0.249	1
0	0	0	0	0	0	0	0	31.8	1	10.2	1	0.631	1	0.254	1
0	0	0	0	0	0	0	0	32	1	10.3	1	0.639	1	0.254	1
0	0	0	0	0	0	0	0	32.3	1	10.3	1	0.655	1	0.255	1
0	0	0	0	0	0	0	0	33.4	1	10.3	1	0.658	1	0.259	1
0	0	0	0	0	0	0	0	33.6	1	10.3	1	0.666	1	0.265	1
0	0	0	0	0	0	0	0	36.1	1	10.3	1	0.666	1	0.267	1
0	0	0	0	0	0	0	0	36.4	1	10.4	1	0.669	1	0.269	1
0	0	0	0	0	0	0	0	36.5	1	10.4	1	0.674	1	0.275	1
0	0	0	0	0	0	0	0	36.7	1	10.4	1	0.675	1	0.282	1
0	0	0	0	0	0	0	0	36.7	1	10.4	1	0.681	1	0.283	1
0	0	0	0	0	0	0	0	36.9	1	10.5	1	0.687	1	0.285	1
0	0	0	0	0	0	0	0	37.4	1	10.6	1	0.697	1	0.287	1
0	0	0	0	0	0	0	0	37.5	1	10.6	1	0.699	1	0.288	1
0	0	0	0	0	0	0	0	37.7	1	10.7	1	0.71	1	0.292	1
0	0	0	0	0	0	0	0	37.9	1	10.8	1	0.723	1	0.292	1
0	0	0	0	0	0	0	0	38.1	1	11	1	0.724	1	0.294	1
0	0	0	0	0	0	0	0	38.4	1	11	1	0.733	1	0.31	1
0	0	0	0	0	0	0	0	38.6	1	11.1	1	0.735	1	0.315	1
0	0	0	0	0	0	0	0	38.6	1	11.1	1	0.742	1	0.332	1
0	0	0	0	0	0	0	0	38.9	1	11.2	1	0.756	1	0.345	1
0	0	0	0	0	0	0	0	39	1	11.2	1	0.771	1	0.346	1
0	0	0	0	0	0	0	0	39.1	1	11.3	1	0.772	1	0.361	1
0	0	0	0	0	0	0	0	39.1	1	11.4	1	0.79	1	0.365	1
0	0	0	0	0	0	0	0	40.4	1	11.4	1	0.797	1	0.366	1
0	0	0	0	0	0	0	0	40.5	1	11.5	1	0.802	1	0.371	1
0	0	0	0	0	0	0	0	40.6	1	11.5	1	0.831	1	0.376	1
0	0	0	0	0	0	0	0	41.9	1	11.7	1	0.866	1	0.378	1
0	0	0	0	0	0	0	0	41.9	1	11.8	1	0.882	1	0.39	1
0	0	0	0	0	0	0	0	42.1	1	11.8	1	0.885	1	0.39	1
0	0	0	0	0	0	0	0	42.8	1	11.9	1	0.898	1	0.398	1
0	0	0	0	0	0	0	0	43.3	1	11.9	1	0.917	1	0.399	1
0	0	0	0	0	0	0	0	46.5	1	11.9	1	0.922	1	0.401	1
0	0	0	0	0	0	0	0	46.8	1	12	1	0.959	1	0.413	1
0	0	0	0	0	0	0	0	47.6	1	12.3	1	0.978	1	0.433	1
0	0	0	0	0	0	0	0	48.1	1	12.3	1	0.995	1	0.458	1
0	0	0	0	0	0	0	0	48.7	1	12.3	1	1	1	0.46	1
0	0	0	0	0	0	0	0	48.8	1	12.4	1	1.03	1	0.461	1
0	0	0	0	0	0	0	0	49	1	12.4	1	1.06	1	0.508	1
0	0	0	0	0	0	0	0	49.7	1	12.4	1	1.09	1	0.512	1
0	0	0	0	0	0	0	0	50.7	1	12.7	1	1.1	1	0.522	1
0	0	0	0	0	0	0	0	51.5	1	12.7	1	1.11	1	0.538	1
0	0	0	0	0	0	0	0	52.5	1	12.7	1	1.12	1	0.545	1
0	0	0	0	0	0	0	0	52.5	1	13	1	1.15	1	0.566	1
0	0	0	0	0	0	0	0	54	1	13.2	1	1.17	1	0.585	1
0	0	0	0	0	0	0	0	56.3	1	13.2	1	1.17	1	0.592	1
0	0	0	0	0	0	0	0	57.6	1	13.5	1	1.2	1	0.605	1
0	0	0	0	0	0	0	0	57.7	1	13.6	1	1.21	1	0.61	1
0	0	0	0	0	0	0	0	58.8	1	13.7	1	1.21	1	0.619	1
0	0	0	0	0	0	0	0	59.6	1	13.9	1	1.24	1	0.623	1
0	0	0	0	0	0	0	0	61	1	13.9	1	1.25	1	0.627	1
0	0	0	0	0	0	0	0	61.7	1	14	1	1.28	1	0.64	1
0	0	0	0	0	0	0	0	62	1	14.3	1	1.29	1	0.68	1
0	0	0	0	0	0	0	0	62.4	1	14.4	1	1.34	1	0.713	1
0	0	0	0	0	0	0	0	63.3	1	14.9	1	1.35	1	0.731	1
0	0	0	0	0	0	0	0	68.8	1	14.9	1	1.35	1	0.756	1
0	0	0	0	0	0	0	0	69.4	1	15	1	1.36	1	0.8	1
0	0	0	0	0	0	0	0	69.9	1	15.1	1	1.42	1	0.805	1
0	0	0	0	0	0	0	0	71.1	1	15.1	1	1.42	1	0.883	1
0	0	0	0	0	0	0	0	72.7	1	15.1	1	1.52	1	0.965	1
0	0	0	0	0	0	0	0	74.9	1	15.1	1	1.62	1	1.01	1
0	0	0	0	0	0	0	0	76.6	1	15.3	1	1.66	1	1.017	1
0	0	0	0	0	0	0	0	77.2	1	15.5	1	1.7	1	1.07	1
0	0	0	0	0	0	0	0	80.1	1	15.5	1	1.7	1	1.11	1
0	0	0	0	0	0	0	0	81.8	1	15.6	1	1.83	1	1.2	1
0	0	0	0	0	0	0	0	84.6	1	16	1	1.94	1	1.214	1
0	0	0	0	0	0	0	0	87.2	1	16.2	1	2.08	1	1.32	1
0	0	0	0	0	0	0	0	88.2	1	16.3	1	2.17	1	1.396	1
0	0	0	0	0	0	0	0	89.9	1	17.1	1	2.43	1	1.571	1
0	0	0	0	0	0	0	0	93.5	1	17.6	1	2.53	1	1.58	1
0	0	0	0	0	0	0	0	107	1	17.7	1	2.68	1	1.686	1
0	0	0	0	0	0	0	0	116	1	18.4	1	2.71	1	1.69	1
0	0	0	0	0	0	0	0	119	1	19	1	2.89	1	1.87	1
0	0	0	0	0	0	0	0	121	1	19.4	1	2.94	1	1.9	1
0	0	0	0	0	0	0	0	122	1	21.2	1	3.72	1	2.09	1
0	0	0	0	0	0	0	0	126	1	22.5	1	4.17	1	2.628	1

0	0	0	0	0	0	0	0	147	1	23.7	1	4.3	1	3.85	1
0	0	0	0	0	0	0	0	163	1	26.8	1	4.97	1	4.73	1
0	0	0	0	0	0	0	0	170	1	27.4	1	8.11	1	4.75	1
0	0	0	0	0	0	0	0	187	1	31.4	1	11.4	1	5.465	1
0	0	0	0	0	0	0	0	189	1	37.7	1	26.3	1	5.836	1
0	0	0	0	0	0	0	0	190	1	67.1	1	156	1	8.091	1
0	0	0	0	0	0	0	0	897	1	81.3	1	505	1	16.7	1
0	0	0	0	0	0	0	0							

0	0	0	0	0	0	0	0

0	0	0	0	0	0	0	0

0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
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0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0.009	1
0	0	0	0	0	0	0.02	1
0	0	0	0	0	0	0.02	1
0	0	0	0	0	0	0.029	1
0	0	0	0	0	0	0.033	1
0	0	0	0	0	0	0.033	1
0	0	0	0	0	0	0.039	1
0	0	0	0	0	0	0.039	1
0	0	0	0	0	0	0.041	1
0	0	0	0	0	0	0.049	1
0	0	0	0	0	0	0.054	1
0	0	0	0	0	0	0.064	1
0	0	0	0	0	0	0.077	1
0	0	0	0	0	0	0.087	1
0	0	0	0	0	0	0.095	1
0	0	0	0	0	0	0.097	1
0	0	0	0	0	0	0.102	1
0	0	0	0	0	0	0.115	1
0	0	0	0	0	0	0.117	1
0	0	0	0	0	0	0.121	1
0	0	0	0	0	0	0.134	1
0	0	0	0	0	0	0.148	1
0	0	0	0	0	0	0.153	1
0	0	0	0	0	0	0.155	1
0	0	0	0	0	0	0.166	1
0	0	0	0	0	0	0.17	1
0	0	0	0	0	0	0.171	1
0	0	0	0	0	0	0.172	1
0	0	0	0	0	0	0.193	1
0	0	0	0	0	0	0.195	1
0	0	0	0	0	0	0.198	1
0	0	0	0	0	0	0.208	1
0	0	0	0	0	0	0.217	1
0	0	0	0	0	0	0.234	1
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0	0	0	0	0	0	0.264	1
0	0	0	0	0	0	0.275	1
0	0	0	0	0	0	0.289	1
0	0	0	0	0	0	0.296	1
0	0	0	0	0	0	0.301	1
0	0	0	0	0	0	0.308	1
0	0	0	0	0	0	0.314	1
0	0	0	0	0	0	0.323	1
0	0	0	0	0	0	0.331	1
0	0	0	0	0	0	0.332	1
0	0	0	0	0	0	0.416	1
0	0	0	0	0	0	0.42	1
0	0	0	0	0	0	0.432	1
0	0	0	0	0	0	0.464	1
0	0	0	0	0	0	0.483	1
0	0	0	0	0	0	0.496	1
0	0	0	0	0	0	0.497	1
0	0	0	0	0	0	0.513	1
0	0	0	0	0	0	0.515	1
0	0	0	0	0	0	0.556	1
0	0	0	0	0	0	0.559	1
0	0	0	0	0	0	0.58	1
0	0	0	0	0	0	0.582	1
0	0	0	0	0	0	0.591	1
0	0	0	0	0	0	0.596	1
0	0	0	0	0	0	0.657	1
0	0	0	0	0	0	0.667	1
0	0	0	0	0	0	0.696	1
0	0	0	0	0	0	0.703	1
0	0	0	0	0	0	0.707	1
0	0	0	0	0	0	0.719	1
0	0	0	0	0	0	0.769	1
0	0	0	0	0	0	0.851	1
0	0	0	0	0	0	0.914	1
0	0	0	0	0	0	0.915	1
0	0	0	0	0	0	0.969	1
0.046	1	0	0	0	0	0.978	1
0.047	1	0	0	0	0	0.983	1

0.05	1	0	0	0	0	1.017	1
0.053	1	0	0	0	0	1.058	1
0.063	1	0	0	0	0	1.101	1
0.079	1	0	0	0	0	1.138	1
0.081	1	0	0	0	0	1.158	1
0.083	1	0	0	0	0	1.167	1
0.108	1	0	0	0	0	1.192	1
0.115	1	0	0	0	0	1.272	1
0.116	1	0	0	0	0	1.277	1
0.117	1	0	0	0	0	1.277	1
0.14	1	0	0	0	0	1.343	1
0.152	1	0	0	0	0	1.356	1
0.153	1	0	0	0	0	1.482	1
0.157	1	0	0	0	0	1.484	1
0.159	1	0	0	0	0	1.533	1
0.185	1	0	0	0	0	1.646	1
0.193	1	0	0	0	0	1.682	1
0.195	1	0	0	0	0	1.756	1
0.216	1	0	0	0	0	1.885	1
0.224	1	0	0	0	0	1.985	1
0.236	1	0	0	0	0	1.996	1
0.272	1	0	0	0	0	2.068	1
0.32	1	0	0	0	0	2.145	1
0.379	1	0	0	0	0	2.315	1
0.402	1	0	0	0	0	3.206	1
0.429	1	0	0	0	0	4.06	1
0.465	1	0	0	0	0	4.126	1
0.518	1	0	0	0	0	4.231	1
0.59	1	0	0	0	0	4.498	1
0.62	1	0	0	0	0	4.661	1
0.653	1	0	0	0	0	4.775	1
0.654	1	0	0	0	0	5.029	1
0.704	1	0.0171	0	0	0	5.364	1
0.745	1	0.0172	0	0	0	5.526	1
0.831	1	0.0183	0	0	0	5.567	1
0.915	1	0.0184	0	0	0	5.596	1
0.967	1	0.0185	0	0	0	6.352	1
1.042	1	0.0187	0	0	0	6.697	1
1.058	1	0.0969	0	0	0	7.057	1
1.132	1	0.097	0	0	0	9.339	1
1.162	1	0.097	0	0	0	9.354	1
1.23	1	0.0981	0	0	0	9.806	1
1.892	1	0.0989	0	0	0	9.961	1
1.935	1	0.099	0	0	0	12.98	1
3.17	1	0.0991	0	0.0043	0	13.14	1
4.111	1	0.0992	0	0.0046	0	14.152	1
4.219	1	0.1019	0	0.0046	0	14.773	1
4.231	1	0.1026	0	0.0046	0	17.262	1
4.733	1	0.1028	0	0.0046	0	22.396	1
5.089	1	0.1038	0	0.0242	0	25.312	1
6.392	1	0.1049	0	0.0242	0	27.424	1
8.669	1	0.1055	0	0.0243	0	33.606	1
12.413	1	0.1056	0	0.0245	0	40.909	1
12.481	1	0.1059	0	0.0247	0	42.494	1
21.553	1	0.109	0	0.0247	0	48.835	1
24.754	1	0.1097	0	0.0248	0	75.833	1
40.042	1	0.1101	0	0.0248	0	187.444	1
65.402	1	0.1124	0	0.0255	0	211.601	1
208.421	1	0.1144	0	0.0257	0	397.06	1
394.167	1	0.1153	0	0.0257	0	805.055	1
		0.1315	0	0.026	0		
		0.1409	0	0.0262	0		
		0.1448	0	0.0264	0		
		0.173	0	0.0264	0		
		0.301	1	0.0265	0		
		0.314	1	0.0272	0		
		0.3199	0	0.0274	0		
		0.323	1	0.0275	0		
		0.3233	0	0.0281	0		
		0.3277	0	0.0286	0		
		0.3295	0	0.0288	0		
		0.3311	0	0.0329	0		
		0.3311	0	0.0352	0		
		0.3316	0	0.0362	0		
		0.3329	0	0.08	0		
		0.3333	0	0.0808	0		
		0.3334	0	0.0809	0		
		0.3335	0	0.0809	0		
		0.3341	0	0.0819	0		
		0.3342	0	0.0824	0		
		0.3345	0	0.0828	0		
		0.3349	0	0.0828	0		
		0.3357	0	0.0829	0		
		0.3365	0	0.0832	0		
		0.337	0	0.0833	0		
		0.3371	0	0.0833	0		
		0.3378	0	0.0834	0		
		0.3378	0	0.0835	0		
		0.3378	0	0.0835	0		
		0.3391	0	0.0837	0		
		0.3395	0	0.0839	0		
		0.3397	0	0.0841	0		
		0.3399	0	0.0842	0		
		0.3404	0	0.0843	0		
		0.3412	0	0.0844	0		
		0.3414	0	0.0844	0		
		0.3423	0	0.0845	0		
		0.3425	0	0.0848	0		

0.3426	0	0.0849	0
0.3446	0	0.0849	0
0.3452	0	0.085	0
0.3457	0	0.0851	0
0.3458	0	0.0853	0
0.3461	0	0.0854	0
0.3465	0	0.0856	0
0.3468	0	0.0856	0
0.3471	0	0.0856	0
0.3471	0	0.0861	0
0.3472	0	0.0861	0
0.3477	0	0.0863	0
0.3479	0	0.0864	0
0.3485	0	0.0865	0
0.3487	0	0.0865	0
0.3488	0	0.0866	0
0.349	0	0.0867	0
0.3501	0	0.0868	0
0.3506	0	0.0868	0
0.3512	0	0.0868	0
0.3513	0	0.0869	0
0.3514	0	0.087	0
0.3515	0	0.0871	0
0.3519	0	0.0872	0
0.3521	0	0.0872	0
0.3527	0	0.0873	0
0.3527	0	0.0875	0
0.3529	0	0.0877	0
0.3535	0	0.0878	0
0.3541	0	0.0878	0
0.3542	0	0.0879	0
0.3545	0	0.0879	0
0.3547	0	0.088	0
0.3548	0	0.088	0
0.355	0	0.0882	0
0.355	0	0.0882	0
0.3554	0	0.0884	0
0.3556	0	0.0885	0
0.3557	0	0.0886	0
0.3558	0	0.0886	0
0.3559	0	0.0887	0
0.3561	0	0.0887	0
0.3567	0	0.0887	0
0.3568	0	0.0888	0
0.3569	0	0.0889	0
0.3569	0	0.0889	0
0.3572	0	0.0889	0
0.3572	0	0.0889	0
0.3581	0	0.089	0
0.359	0	0.0892	0
0.3594	0	0.0892	0
0.3596	0	0.0892	0
0.3597	0	0.0892	0
0.3597	0	0.0893	0
0.3599	0	0.0893	0
0.3602	0	0.0895	0
0.3602	0	0.0897	0
0.3608	0	0.0899	0
0.361	0	0.0899	0
0.361	0	0.0899	0
0.361	0	0.09	0
0.3624	0	0.09	0
0.3625	0	0.0901	0
0.3626	0	0.0902	0
0.3627	0	0.0902	0
0.3628	0	0.0903	0
0.3628	0	0.0903	0
0.3628	0	0.0906	0
0.3633	0	0.0906	0
0.3633	0	0.0907	0
0.3638	0	0.0907	0
0.3644	0	0.0907	0
0.3644	0	0.0907	0
0.3647	0	0.0907	0
0.3648	0	0.0908	0
0.3649	0	0.0908	0
0.3651	0	0.091	0
0.3653	0	0.0911	0
0.3657	0	0.0911	0
0.3657	0	0.0912	0
0.3658	0	0.0912	0
0.3658	0	0.0912	0
0.3659	0	0.0913	0
0.3661	0	0.0913	0
0.3664	0	0.0914	0
0.3675	0	0.0914	0
0.3676	0	0.0914	0
0.3677	0	0.0914	0
0.3678	0	0.0915	0
0.3678	0	0.0915	0
0.3683	0	0.0916	0
0.3683	0	0.0919	0
0.3686	0	0.0919	0
0.3687	0	0.0919	0
0.3698	0	0.0919	0
0.3698	0	0.092	0
0.3703	0	0.0921	0
0.3708	0	0.0921	0

0.3712	0	0.0921	0
0.3712	0	0.0922	0
0.3719	0	0.0924	0
0.3719	0	0.0925	0
0.3721	0	0.0926	0
0.3726	0	0.0927	0
0.3726	0	0.0928	0
0.3731	0	0.0928	0
0.3732	0	0.093	0
0.3742	0	0.093	0
0.3744	0	0.093	0
0.3746	0	0.0932	0
0.3747	0	0.0932	0
0.375	0	0.0933	0
0.3752	0	0.0933	0
0.3752	0	0.0935	0
0.3754	0	0.0936	0
0.3758	0	0.0936	0
0.3763	0	0.0937	0
0.3764	0	0.0938	0
0.3765	0	0.0938	0
0.3767	0	0.0938	0
0.3784	0	0.0938	0
0.3796	0	0.094	0
0.3801	0	0.0941	0
0.3803	0	0.0941	0
0.3805	0	0.0941	0
0.3805	0	0.0942	0
0.381	0	0.0942	0
0.3812	0	0.0946	0
0.3817	0	0.095	0
0.3821	0	0.0951	0
0.3823	0	0.0951	0
0.3824	0	0.0951	0
0.3831	0	0.0953	0
0.3834	0	0.0953	0
0.3839	0	0.0954	0
0.4213	0	0.0955	0
0.496	1	0.0956	0
0.4997	0	0.0956	0
0.5101	0	0.0958	0
0.582	1	0.0959	0
0.978	1	0.096	0
0.983	1	0.1053	0
1.017	1	0.1249	0
1.167	1	0.1275	0
1.192	1	0.264	1
1.277	1	0.432	1
1.482	1	0.513	1
1.646	1	0.556	1
2.145	1	0.58	1
4.06	1	0.596	1
5.364	1	0.651	1
5.526	1	0.657	1
5.596	1	1	1
5.983	1	1.484	1
6.352	1	1.533	1
9.339	1	1.672	1
9.354	1	1.682	1
14.152	1	1.885	1
17.262	1	1.929	1
27.424	1	1.985	1
33.606	1	6.697	1
48.835	1	7.057	1
187.444	1	9.961	1
805.055	1	42.494	1

General Statistics on Uncensored Data

Date/Time of Computation 7/14/2015 12:46:28 PM

User Selected Options

From File ProUCL_Soil Drivers.xls

Full Precision OFF

From File: ProUCL_Soil Drivers.xls

General Statistics for Censored Data Set (with NDs) using Kaplan Meier Method

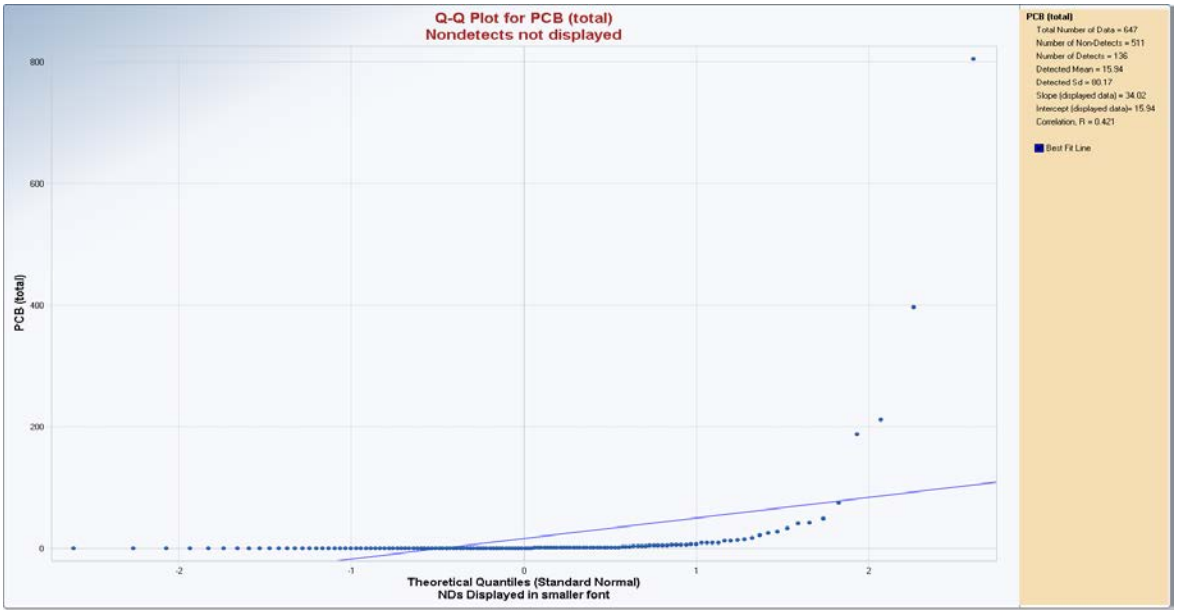
Variable	NumObs	# Missing	Num Ds	NumNDs	% NDs	Min ND	Max ND	KM Mean	KM Var	KM SD	KM CV
PCB (total)	647	0	136	511	78.98%	0	0	3.351	1383	37.19	11.1
Aroclor-1254	849	0	20	829	97.64%	0	0.128	0.0985	2.375	1.541	15.64
Aroclor-1016	647	0	62	585	90.42%	0	0	1.301	317.2	17.81	13.69
Aroclor-1242	849	0	29	820	96.58%	0	0.51	1.413	808.8	28.44	20.13
Lead	202	0	202	0	0.00%	N/A	N/A	41.83	4845	69.6	1.664
Arsenic	202	0	201	1	0.50%	0.461	0.461	10.48	66.18	8.135	0.776
Cadmium	202	0	146	56	27.72%	0.097	0.147	4.162	1371	37.03	8.897
Mercury	202	0	198	4	1.98%	0.022	0.026	0.561	2.28	1.51	2.694

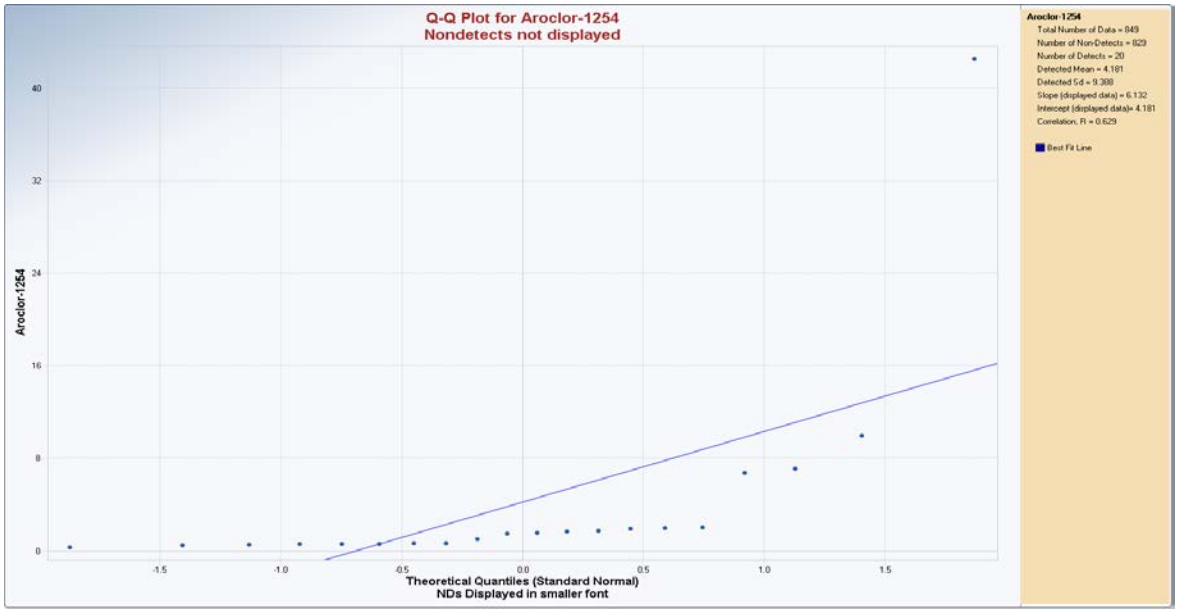
General Statistics for Raw Data Sets using Detected Data Only

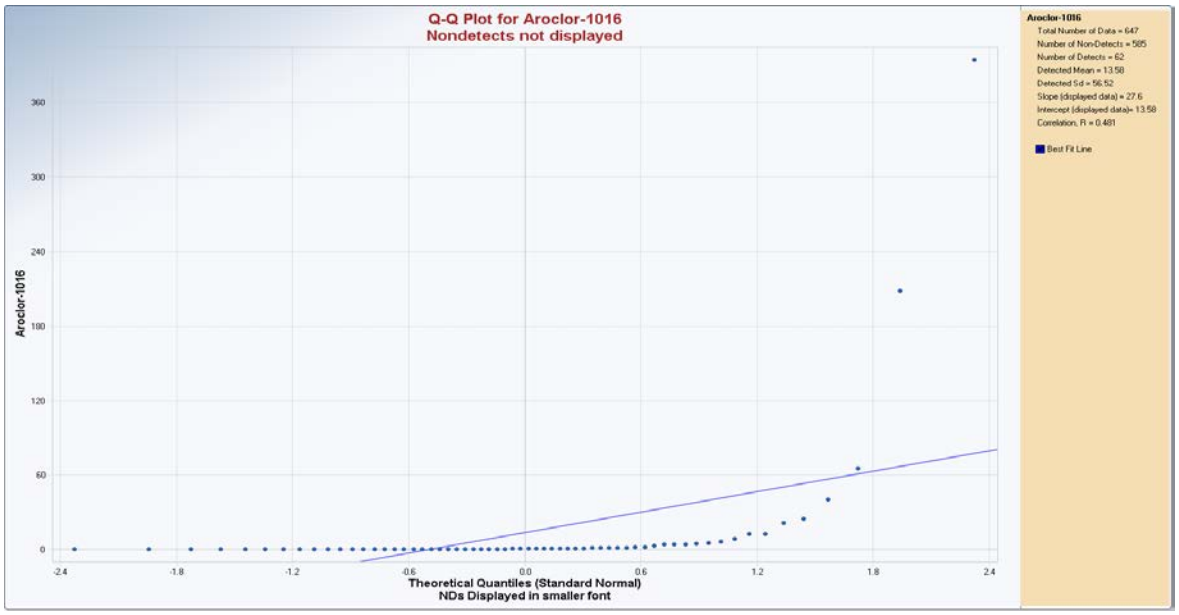
Variable	NumObs	# Missing	Minimum	Maximum	Mean	Median	Var	SD	MAD/0.675	Skewness	CV
PCB (total)	136	0	0.009	805.1	15.94	0.713	6427	80.17	0.885	8.159	5.029
Aroclor-1254	20	0	0.264	42.49	4.181	1.509	88.14	9.388	1.312	3.953	2.245
Aroclor-1016	62	0	0.046	394.2	13.58	0.605	3195	56.52	0.726	5.87	4.163
Aroclor-1242	29	0	0.301	805.1	41.35	4.06	22814	151	4.569	4.979	3.652
Lead	202	0	2.02	897	41.83	25.65	4845	69.6	18.01	9.561	1.664
Arsenic	201	0	0.664	81.3	10.53	9.26	66.34	8.145	3.899	5.348	0.774
Cadmium	146	0	0.112	505	5.721	0.678	1901	43.6	0.511	10.78	7.622
Mercury	198	0	0.026	16.7	0.571	0.202	2.332	1.527	0.209	7.307	2.672

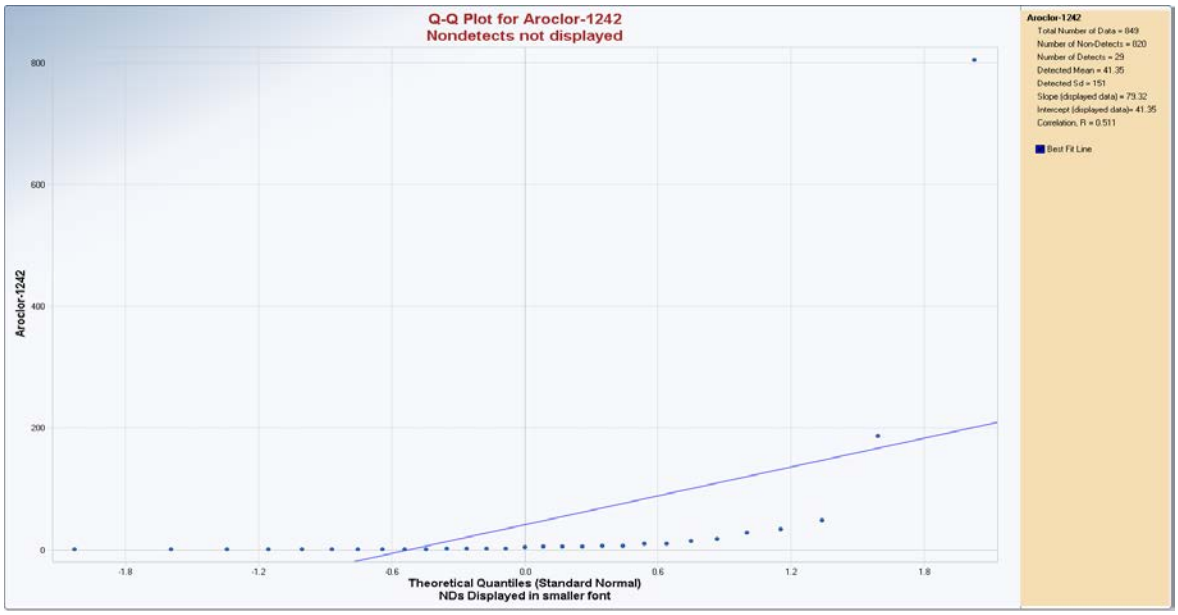
Percentiles using all Detects (Ds) and Non-Detects (NDs)

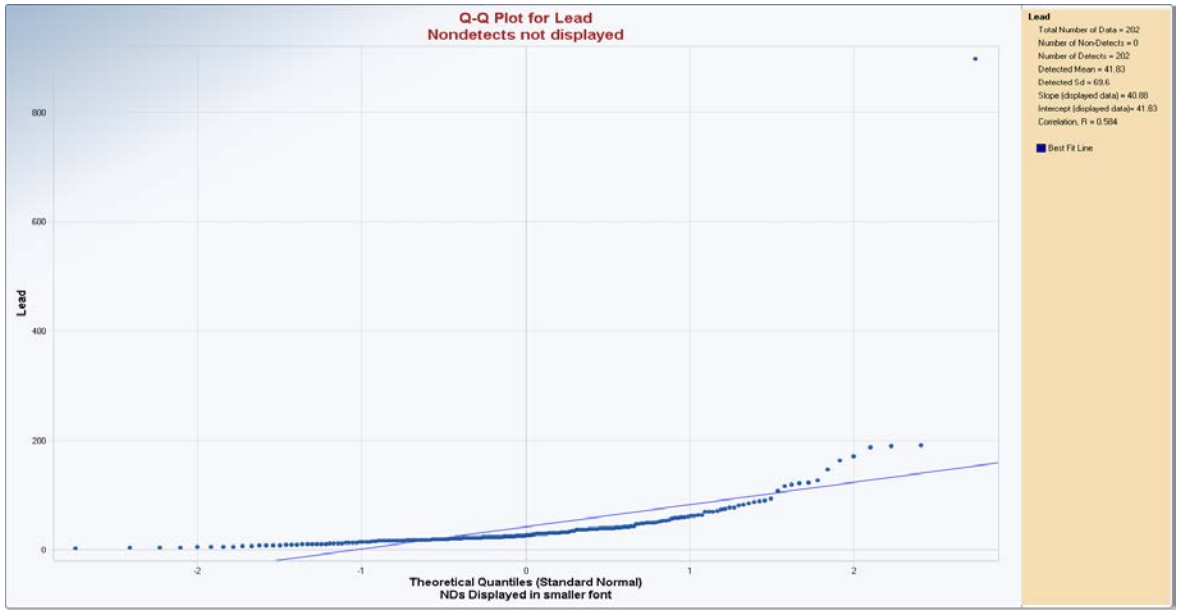
Variable	NumObs	# Missing	10%ile	20%ile	25%ile(Q1)	50%ile(Q2)	75%ile(Q3)	80%ile	90%ile	95%ile	99%ile
PCB (total)	647	0	0	0	0	0	0	0.0378	0.876	4.199	41.76
Aroclor-1254	849	0	0	0	0	0	0.0242	0.0841	0.0911	0.0939	1.605
Aroclor-1016	647	0	0	0	0	0	0	0	0	0.502	12.45
Aroclor-1242	849	0	0	0	0	0	0.104	0.34	0.366	0.379	7.905
Lead	202	0	10.01	16.2	17.6	25.65	45.7	52.3	77.14	118.9	189
Arsenic	202	0	4.586	6.19	6.698	9.175	11.9	12.7	15.48	18.97	37.64
Cadmium	202	0	0.112	0.12	0.126	0.481	0.921	1.118	1.696	2.881	26.15
Mercury	202	0	0.0401	0.0622	0.0733	0.197	0.401	0.544	1.065	1.861	5.832

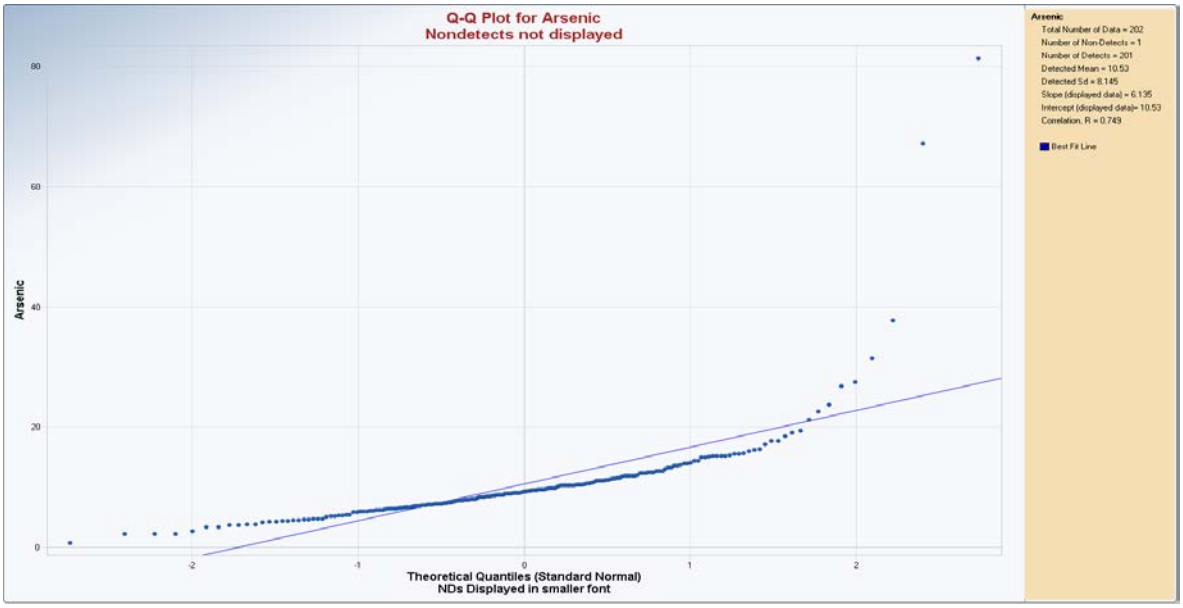


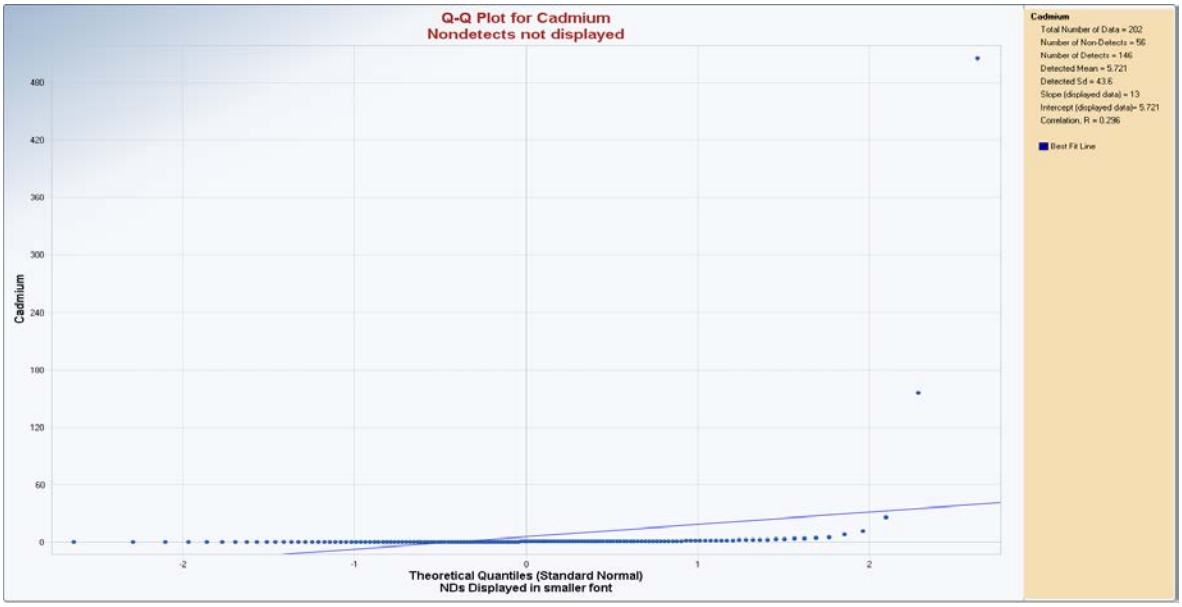

Q-Q Plot for Aroclor-1254
Nondetects not displayed
Aroclor-1254
Total Number of Data = 849
Number of Non-Detects = 829
Number of Detects = 20
Detected Mean = 4.181
Detected Sd = 9.388
Slope (displayed data) = 6.132
Intercept (displayed data)= 4.181
Correlation, R = 0.629
Best Fit Line
Aroclor-1254
40
32
24
16
8
0
-1.5
-1.0
-0.5
0.0
0.5
1.0
1.5
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font

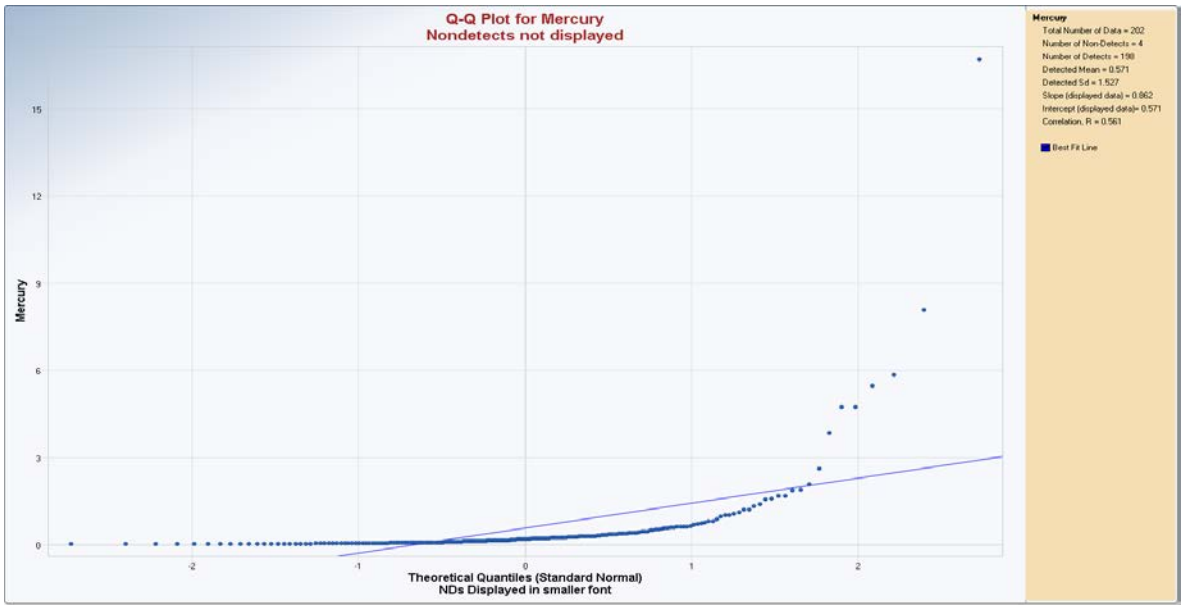

Q-Q Plot for Aroclor-1016
Nondetects not displayed
Aroclor-1016
Total Number of Data = 647
Number of Non-Detects = 585
Number of Detects = 62
Detected Mean = 13.58
Detected Sd = 56.52
Slope (displayed data) = 27.6
Intercept (displayed data)= 13.58
Correlation, R = 0.481
Best Fit Line
Aroclor-1016
360
300
240
180
120
60
0
-2.4
-1.8
-1.2
-0.6
0.0
0.6
1.2
1.8
2.4
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font


Q-Q Plot for Aroclor-1242
Nondetects not displayed
Aroclor-1242
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font
Aroclor-1242
Total Number of Data = 649
Number of Non-Detects = 620
Number of Detects = 29
Detected Mean = 41.35
Detected Sd = 151
Slope (displayed data) = 79.32
Intercept (displayed data)= 41.35
Correlation, R = 0.511
Best Fit Line


Q-Q Plot for Lead
Nondetects not displayed
Lead
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font
Lead
Total Number of Data = 202
Number of Non-Detects = 0
Number of Detects = 202
Detected Mean = 41.83
Detected Sd = 69.6
Slope (displayed data) = 40.88
Intercept (displayed data)= 41.83
Correlation, R = 0.584
Best Fit Line


Q-Q Plot for Arsenic
Nondetects not displayed
Arsenic
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font
Arsenic
Total Number of Data = 202
Number of Non-Detects = 1
Number of Detects = 201
Detected Mean = 10.53
Detected Sd = 8.145
Slope (displayed data) = 6.135
Intercept (displayed data)= 10.53
Correlation, R = 0.749
Best Fit Line


Q-Q Plot for Cadmium
Nondetects not displayed
Cadmium
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font
Cadmium
Total Number of Data = 202
Number of Non-Detects = 56
Number of Detects = 146
Detected Mean = 5.721
Detected Sd = 43.6
Slope (displayed data) = 13
Intercept (displayed data)= 5.721
Correlation, R = 0.296
Best Fit Line


Q-Q Plot for Mercury
Nondetects not displayed
Mercury
Theoretical Quantiles (Standard Normal)
NDs Displayed in smaller font
Mercury
Total Number of Data = 202
Number of Non-Detects = 4
Number of Detects = 198
Detected Mean = 0.571
Detected Sd = 1.527
Slope (displayed data) = 0.862
Intercept (displayed data)= 0.571
Correlation, R = 0.561
Best Fit Line

UCL Statistics for Data Sets with Non-Detects

User Selected Options	
Date/Time of Computation	7/14/2015 12:43:41 PM
From File	ProUCL_Soil Drivers.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

PCB (total)

General Statistics

Total Number of Observations	647	Number of Distinct Observations	133
Number of Detects	136	Number of Non-Detects	511
Number of Distinct Detects	132	Number of Distinct Non-Detects	1
Minimum Detect	0.009	Minimum Non-Detect	0
Maximum Detect	805.1	Maximum Non-Detect	0
Variance Detects	6427	Percent Non-Detects	78.98%
Mean Detects	15.94	SD Detects	80.17
Median Detects	0.713	CV Detects	5.029
Skewness Detects	8.159	Kurtosis Detects	74.02

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.22	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.421	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.076	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	3.351	Standard Error of Mean	1.468
SD	37.19	95% KM (BCA) UCL	6.497
95% KM (t) UCL	5.768	95% KM (Percentile Bootstrap) UCL	5.974
95% KM (z) UCL	5.765	95% KM Bootstrap t UCL	11.1
90% KM Chebyshev UCL	7.753	95% KM Chebyshev UCL	9.748
97.5% KM Chebyshev UCL	12.52	99% KM Chebyshev UCL	17.95

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	14.64	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.892	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.261	**Kolmogrov-Smirnoff GOF**	
5% K-S Critical Value	0.088	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.252	k star (bias corrected MLE)	0.251
Theta hat (MLE)	63.28	Theta star (bias corrected MLE)	63.44
nu hat (MLE)	68.52	nu star (bias corrected)	68.34
MLE Mean (bias corrected)	15.94	MLE Sd (bias corrected)	31.8

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.00812	nu hat (KM)	10.5
		Adjusted Level of Significance (β)	0.0496
Approximate Chi Square Value (10.50, α)	4.258	Adjusted Chi Square Value (10.50, β)	4.249
95% Gamma Approximate KM-UCL (use when n>=50)	8.264	95% Gamma Adjusted KM-UCL (use when n<50)	8.281

Gamma (KM) may not be used when k hat (KM) is < 0.1

DL/2 Statistics

Mean in Original Scale	3.351	SD in Original Scale	37.22
95% t UCL (Assumes normality)	5.761		

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

97.5% KM (Chebyshev) UCL 12.52

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Lead

General Statistics

Total Number of Observations	202	Number of Distinct Observations	176
		Number of Missing Observations	0
Minimum	2.02	Mean	41.83
Maximum	897	Median	25.65
SD	69.6	Std. Error of Mean	4.897
Coefficient of Variation	1.664	Skewness	9.561

Normal GOF Test

Shapiro Wilk Test Statistic	0.401	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.287	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.0623	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	49.92	95% Adjusted-CLT UCL (Chen-1995)	53.4
		95% Modified-t UCL (Johnson-1978)	50.47

Gamma GOF Test

A-D Test Statistic	4.693	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.775	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.123	**Kolmogrov-Smirnoff Gamma GOF Test**
5% K-S Critical Value	0.0648	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.351	k star (bias corrected MLE)	1.334
Theta hat (MLE)	30.97	Theta star (bias corrected MLE)	31.36
nu hat (MLE)	545.6	nu star (bias corrected)	538.9
MLE Mean (bias corrected)	41.83	MLE Sd (bias corrected)	36.22
		Approximate Chi Square Value (0.05)	486
Adjusted Level of Significance	0.0488	Adjusted Chi Square Value	485.7

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	46.38	95% Adjusted Gamma UCL (use when n<50)	46.41

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.989	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk P Value	0.915	Data appear Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.0689	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.0623	Data Not Lognormal at 5% Significance Level

Data appear Approximate Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.703	Mean of logged Data	3.32
Maximum of Logged Data	6.799	SD of logged Data	0.848

Assuming Lognormal Distribution

95% H-UCL	44.69	90% Chebyshev (MVUE) UCL	47.68
95% Chebyshev (MVUE) UCL	51.39	97.5% Chebyshev (MVUE) UCL	56.53
99% Chebyshev (MVUE) UCL	66.63		

Nonparametric Distribution Free UCL Statistics

Data appear to follow a Discernible Distribution at 5% Significance Level

Nonparametric Distribution Free UCLs

95% CLT UCL	49.88	95% Jackknife UCL	49.92
95% Standard Bootstrap UCL	49.85	95% Bootstrap-t UCL	57.23
95% Hall's Bootstrap UCL	84.04	95% Percentile Bootstrap UCL	50.61
95% BCA Bootstrap UCL	55.01		
90% Chebyshev(Mean, Sd) UCL	56.52	95% Chebyshev(Mean, Sd) UCL	63.18
97.5% Chebyshev(Mean, Sd) UCL	72.41	99% Chebyshev(Mean, Sd) UCL	90.56

Suggested UCL to Use

95% Chebyshev (Mean, Sd) UCL 63.18

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

Aroclor-1254

General Statistics

Total Number of Observations	849	Number of Distinct Observations	144
Number of Detects	20	Number of Non-Detects	829
Number of Distinct Detects	20	Number of Distinct Non-Detects	124
Minimum Detect	0.264	Minimum Non-Detect	0
Maximum Detect	42.49	Maximum Non-Detect	0.128
Variance Detects	88.14	Percent Non-Detects	97.64%
Mean Detects	4.181	SD Detects	9.388
Median Detects	1.509	CV Detects	2.245
Skewness Detects	3.953	Kurtosis Detects	16.52

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.424	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.905	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.392	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.198	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	0.0985	Standard Error of Mean	0.0543
SD	1.541	95% KM (BCA) UCL	0.197
95% KM (t) UCL	0.188	95% KM (Percentile Bootstrap) UCL	0.2
95% KM (z) UCL	0.188	95% KM Bootstrap t UCL	0.388
90% KM Chebyshev UCL	0.261	95% KM Chebyshev UCL	0.335
97.5% KM Chebyshev UCL	0.437	99% KM Chebyshev UCL	0.638

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.916	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.792	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.328	**Kolmogrov-Smirnoff GOF**	
5% K-S Critical Value	0.203	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.61	k star (bias corrected MLE)	0.552
Theta hat (MLE)	6.856	Theta star (bias corrected MLE)	7.579
nu hat (MLE)	24.39	nu star (bias corrected)	22.07
MLE Mean (bias corrected)	4.181	MLE Sd (bias corrected)	5.629

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.00409	nu hat (KM)	6.938
		Adjusted Level of Significance (β)	0.0497
Approximate Chi Square Value (6.94, α)	2.136	Adjusted Chi Square Value (6.94, β)	2.132
95% Gamma Approximate KM-UCL (use when n>=50)	0.32	95% Gamma Adjusted KM-UCL (use when n<50)	0.321

Gamma (KM) may not be used when k hat (KM) is < 0.1

DL/2 Statistics

Mean in Original Scale	0.108	SD in Original Scale	1.541
95% t UCL (Assumes normality)	0.195		

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

97.5% KM (Chebyshev) UCL	0.437

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Aroclor-1242

General Statistics

Total Number of Observations	849	Number of Distinct Observations	204
Number of Detects	29	Number of Non-Detects	820
Number of Distinct Detects	29	Number of Distinct Non-Detects	175
Minimum Detect	0.301	Minimum Non-Detect	0
Maximum Detect	805.1	Maximum Non-Detect	0.51
Variance Detects	22814	Percent Non-Detects	96.58%
Mean Detects	41.35	SD Detects	151
Median Detects	4.06	CV Detects	3.652
Skewness Detects	4.979	Kurtosis Detects	25.62

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.293	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk Critical Value	0.926	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.417	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.165	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	1.413	Standard Error of Mean	0.993
SD	28.44	95% KM (BCA) UCL	3.338
95% KM (t) UCL	3.049	95% KM (Percentile Bootstrap) UCL	3.326
95% KM (z) UCL	3.047	95% KM Bootstrap t UCL	16.49
90% KM Chebyshev UCL	4.393	95% KM Chebyshev UCL	5.743
97.5% KM Chebyshev UCL	7.616	99% KM Chebyshev UCL	11.3

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	3.164	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.858	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.266	**Kolmogrov-Smirnoff GOF**	
5% K-S Critical Value	0.177	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.296	k star (bias corrected MLE)	0.288
Theta hat (MLE)	139.7	Theta star (bias corrected MLE)	143.4
nu hat (MLE)	17.17	nu star (bias corrected)	16.72
MLE Mean (bias corrected)	41.35	MLE Sd (bias corrected)	77.01

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.00247	nu hat (KM)	4.19
		Adjusted Level of Significance (β)	0.0497
Approximate Chi Square Value (4.19, α)	0.798	Adjusted Chi Square Value (4.19, β)	0.796
95% Gamma Approximate KM-UCL (use when n>=50)	7.416	95% Gamma Adjusted KM-UCL (use when n<50)	7.438

Gamma (KM) may not be used when k hat (KM) is < 0.1

DL/2 Statistics

Mean in Original Scale	1.45	SD in Original Scale	28.45
95% t UCL (Assumes normality)	3.058		

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

97.5% KM (Chebyshev) UCL 7.616

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Aroclor-1016

General Statistics

Total Number of Observations	647	Number of Distinct Observations	63
Number of Detects	62	Number of Non-Detects	585
Number of Distinct Detects	62	Number of Distinct Non-Detects	1
Minimum Detect	0.046	Minimum Non-Detect	0
Maximum Detect	394.2	Maximum Non-Detect	0
Variance Detects	3195	Percent Non-Detects	90.42%
Mean Detects	13.58	SD Detects	56.52
Median Detects	0.605	CV Detects	4.163
Skewness Detects	5.87	Kurtosis Detects	36.6

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.269	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.411	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.113	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	1.301	Standard Error of Mean	0.706
SD	17.81	95% KM (BCA) UCL	2.575
95% KM (t) UCL	2.464	95% KM (Percentile Bootstrap) UCL	2.559
95% KM (z) UCL	2.462	95% KM Bootstrap t UCL	7.323
90% KM Chebyshev UCL	3.419	95% KM Chebyshev UCL	4.378
97.5% KM Chebyshev UCL	5.709	99% KM Chebyshev UCL	8.325

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	7.362	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.889	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.284	**Kolmogrov-Smirnoff GOF**	
5% K-S Critical Value	0.124	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.25	k star (bias corrected MLE)	0.249
Theta hat (MLE)	54.27	Theta star (bias corrected MLE)	54.56
nu hat (MLE)	31.02	nu star (bias corrected)	30.85
MLE Mean (bias corrected)	13.58	MLE Sd (bias corrected)	27.22

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.00534	nu hat (KM)	6.905
		Adjusted Level of Significance (β)	0.0496
Approximate Chi Square Value (6.90, α)	2.118	Adjusted Chi Square Value (6.90, β)	2.112
95% Gamma Approximate KM-UCL (use when n>=50)	4.24	95% Gamma Adjusted KM-UCL (use when n<50)	4.252

Gamma (KM) may not be used when k hat (KM) is < 0.1

DL/2 Statistics

Mean in Original Scale	1.301	SD in Original Scale	17.82
95% t UCL (Assumes normality)	2.455		

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

97.5% KM (Chebyshev) UCL	5.709

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Arsenic

General Statistics

Total Number of Observations	202	Number of Distinct Observations	164
Number of Detects	201	Number of Non-Detects	1
Number of Distinct Detects	163	Number of Distinct Non-Detects	1
Minimum Detect	0.664	Minimum Non-Detect	0.461
Maximum Detect	81.3	Maximum Non-Detect	0.461
Variance Detects	66.34	Percent Non-Detects	0.495%
Mean Detects	10.53	SD Detects	8.145
Median Detects	9.26	CV Detects	0.774
Skewness Detects	5.348	Kurtosis Detects	39.55
Mean of Logged Detects	2.194	SD of Logged Detects	0.55

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.602	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.196	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0625	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	10.48	Standard Error of Mean	0.574
SD	8.135	95% KM (BCA) UCL	11.58
95% KM (t) UCL	11.43	95% KM (Percentile Bootstrap) UCL	11.48
95% KM (z) UCL	11.42	95% KM Bootstrap t UCL	11.83
90% KM Chebyshev UCL	12.2	95% KM Chebyshev UCL	12.98
97.5% KM Chebyshev UCL	14.06	99% KM Chebyshev UCL	16.19

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	3.335	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.759	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.0991	**Kolmogrov-Smirnoff GOF**	
5% K-S Critical Value	0.0639	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	3.273	k star (bias corrected MLE)	3.227
Theta hat (MLE)	3.217	Theta star (bias corrected MLE)	3.262
nu hat (MLE)	1316	nu star (bias corrected)	1297
MLE Mean (bias corrected)	10.53	MLE Sd (bias corrected)	5.861

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	1.659	nu hat (KM)	670.2
Approximate Chi Square Value (670.19, α)	611.1	Adjusted Chi Square Value (670.19, β)	610.7
95% Gamma Approximate KM-UCL (use when n>=50)	11.49	95% Gamma Adjusted KM-UCL (use when n<50)	11.5

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detected data is small such as < 0.1
For such situations, GROS method tends to yield inflated values of UCLs and BTVs
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	10.48
Maximum	81.3	Median	9.175
SD	8.158	CV	0.779
k hat (MLE)	2.798	k star (bias corrected MLE)	2.76
Theta hat (MLE)	3.744	Theta star (bias corrected MLE)	3.795
nu hat (MLE)	1131	nu star (bias corrected)	1115
MLE Mean (bias corrected)	10.48	MLE Sd (bias corrected)	6.306
		Adjusted Level of Significance (β)	0.0488
Approximate Chi Square Value (N/A, α)	1039	Adjusted Chi Square Value (N/A, β)	1038
95% Gamma Approximate UCL (use when n>=50)	11.25	95% Gamma Adjusted UCL (use when n<50)	11.25

Lognormal GOF Test on Detected Observations Only

Lilliefors Test Statistic	0.0674	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0625	Detected Data Not Lognormal at 5% Significance Level	

Detected Data Not Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	10.49	Mean in Log Scale	2.186
SD in Original Scale	8.147	SD in Log Scale	0.559
95% t UCL (assumes normality of ROS data)	11.43	95% Percentile Bootstrap UCL	11.46
95% BCA Bootstrap UCL	11.72	95% Bootstrap t UCL	11.8
95% H-UCL (Log ROS)	11.18		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	10.48	Mean in Log Scale	2.175
SD in Original Scale	8.157	SD in Log Scale	0.606
95% t UCL (Assumes normality)	11.43	95% H-Stat UCL	11.46

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

95% KM (BCA) UCL 11.58

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Cadmium

General Statistics

Total Number of Observations	202	Number of Distinct Observations	168
Number of Detects	146	Number of Non-Detects	56
Number of Distinct Detects	138	Number of Distinct Non-Detects	31
Minimum Detect	0.112	Minimum Non-Detect	0.097
Maximum Detect	505	Maximum Non-Detect	0.147
Variance Detects	1901	Percent Non-Detects	27.72%
Mean Detects	5.721	SD Detects	43.6
Median Detects	0.678	CV Detects	7.622
Skewness Detects	10.78	Kurtosis Detects	121.5
Mean of Logged Detects	-0.256	SD of Logged Detects	1.122

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.128	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.473	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0733	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	4.162	Standard Error of Mean	2.614
SD	37.03	95% KM (BCA) UCL	8.338
95% KM (t) UCL	8.482	95% KM (Percentile Bootstrap) UCL	9.093
95% KM (z) UCL	8.462	95% KM Bootstrap t UCL	64.75
90% KM Chebyshev UCL	12	95% KM Chebyshev UCL	15.56
97.5% KM Chebyshev UCL	20.49	99% KM Chebyshev UCL	30.17

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	31.17	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.859	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.367	**Kolmogrov-Smirnoff GOF**	
5% K-S Critical Value	0.0838	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.338	k star (bias corrected MLE)	0.336
Theta hat (MLE)	16.92	Theta star (bias corrected MLE)	17.04
nu hat (MLE)	98.72	nu star (bias corrected)	98.03
MLE Mean (bias corrected)	5.721	MLE Sd (bias corrected)	9.873

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.0126	nu hat (KM)	5.103
Approximate Chi Square Value (5.10, α)	1.2	Adjusted Chi Square Value (5.10, β)	1.187
95% Gamma Approximate KM-UCL (use when n>=50)	17.7	95% Gamma Adjusted KM-UCL (use when n<50)	17.89

Gamma (KM) may not be used when k hat (KM) is < 0.1

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detected data is small such as < 0.1
For such situations, GROS method tends to yield inflated values of UCLs and BTVs
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	4.138
Maximum	505	Median	0.481
SD	37.12	CV	8.972
k hat (MLE)	0.247	k star (bias corrected MLE)	0.247
Theta hat (MLE)	16.75	Theta star (bias corrected MLE)	16.78
nu hat (MLE)	99.77	nu star (bias corrected)	99.62
MLE Mean (bias corrected)	4.138	MLE Sd (bias corrected)	8.332
		Adjusted Level of Significance (β)	0.0488
Approximate Chi Square Value (99.62, α)	77.59	Adjusted Chi Square Value (99.62, β)	77.46
95% Gamma Approximate UCL (use when n>=50)	5.312	95% Gamma Adjusted UCL (use when n<50)	5.322

Lognormal GOF Test on Detected Observations Only

Lilliefors Test Statistic	0.13	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0733	Detected Data Not Lognormal at 5% Significance Level	

Detected Data Not Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	4.156	Mean in Log Scale	-0.905
SD in Original Scale	37.12	SD in Log Scale	1.429
95% t UCL (assumes normality of ROS data)	8.472	95% Percentile Bootstrap UCL	9.065
95% BCA Bootstrap UCL	12.43	95% Bootstrap t UCL	83.81
95% H-UCL (Log ROS)	1.45		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	4.151	Mean in Log Scale	-0.977
SD in Original Scale	37.12	SD in Log Scale	1.507
95% t UCL (Assumes normality)	8.467	95% H-Stat UCL	1.547

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

95% KM (Chebyshev) UCL	15.56

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Mercury

General Statistics

Total Number of Observations	202	Number of Distinct Observations	161
Number of Detects	198	Number of Non-Detects	4
Number of Distinct Detects	159	Number of Distinct Non-Detects	3
Minimum Detect	0.026	Minimum Non-Detect	0.022
Maximum Detect	16.7	Maximum Non-Detect	0.026
Variance Detects	2.332	Percent Non-Detects	1.98%
Mean Detects	0.571	SD Detects	1.527
Median Detects	0.202	CV Detects	2.672
Skewness Detects	7.307	Kurtosis Detects	67.17
Mean of Logged Detects	-1.578	SD of Logged Detects	1.261

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.361	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.36	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.063	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

Mean	0.561	Standard Error of Mean	0.107
SD	1.51	95% KM (BCA) UCL	0.768
95% KM (t) UCL	0.737	95% KM (Percentile Bootstrap) UCL	0.738
95% KM (z) UCL	0.736	95% KM Bootstrap t UCL	0.844
90% KM Chebyshev UCL	0.88	95% KM Chebyshev UCL	1.025
97.5% KM Chebyshev UCL	1.226	99% KM Chebyshev UCL	1.62

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	11	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.81	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.176	**Kolmogrov-Smirnoff GOF**	
5% K-S Critical Value	0.0674	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.606	k star (bias corrected MLE)	0.6
Theta hat (MLE)	0.943	Theta star (bias corrected MLE)	0.952
nu hat (MLE)	240	nu star (bias corrected)	237.7
MLE Mean (bias corrected)	0.571	MLE Sd (bias corrected)	0.738

Gamma Kaplan-Meier (KM) Statistics

k hat (KM)	0.138	nu hat (KM)	55.68
Approximate Chi Square Value (55.68, α)	39.53	Adjusted Chi Square Value (55.68, β)	39.43
95% Gamma Approximate KM-UCL (use when n>=50)	0.79	95% Gamma Adjusted KM-UCL (use when n<50)	0.792

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detected data is small such as < 0.1
For such situations, GROS method tends to yield inflated values of UCLs and BTVs
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	0.56
Maximum	16.7	Median	0.197
SD	1.514	CV	2.702
k hat (MLE)	0.586	k star (bias corrected MLE)	0.58
Theta hat (MLE)	0.956	Theta star (bias corrected MLE)	0.965
nu hat (MLE)	236.7	nu star (bias corrected)	234.5
MLE Mean (bias corrected)	0.56	MLE Sd (bias corrected)	0.735
		Adjusted Level of Significance (β)	0.0488
Approximate Chi Square Value (234.52, α)	200.1	Adjusted Chi Square Value (234.52, β)	199.8
95% Gamma Approximate UCL (use when n>=50)	0.657	95% Gamma Adjusted UCL (use when n<50)	0.658

Lognormal GOF Test on Detected Observations Only

Lilliefors Test Statistic	0.0625	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.063	Detected Data appear Lognormal at 5% Significance Level	

Detected Data appear Approximate Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	0.56	Mean in Log Scale	-1.641
SD in Original Scale	1.514	SD in Log Scale	1.326
95% t UCL (assumes normality of ROS data)	0.736	95% Percentile Bootstrap UCL	0.748
95% BCA Bootstrap UCL	0.838	95% Bootstrap t UCL	0.844
95% H-UCL (Log ROS)	0.586		

UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed

KM Mean (logged)	-1.622	95% H-UCL (KM -Log)	0.559
KM SD (logged)	1.284	95% Critical H Value (KM-Log)	2.396
KM Standard Error of Mean (logged)	0.0906		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	0.56	Mean in Log Scale	-1.634
SD in Original Scale	1.514	SD in Log Scale	1.31
95% t UCL (Assumes normality)	0.736	95% H-Stat UCL	0.576

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

95% KM (Chebyshev) UCL	1.025

Calculations of Preliminary Remediation Goals (PRGs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09 **EDIT RED CELLS**

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004	GSDi and PbBo from Analysis of NHANES III (Phases 1&2)
$PbB_{fetal,\ 0.95}$	95th percentile PbB in fetus	ug/dL	10	10
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	Geometric standard deviation PbB	--	1.8	2.1
PbB_0	Baseline PbB	ug/dL	1.0	1.5
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.100	0.100
$AF_{S,\ D}$	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S,\ D}$	Exposure frequency (same for soil and dust)	days/yr	50	50
$AT_{S,\ D}$	Averaging time (same for soil and dust)	days/yr	365	365
PRG		**ppm**	**4,905**	**2,705**

Calculations of Preliminary Remediation Goals (PRGs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09 **EDIT RED CELLS**

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004	GSDi and PbBo from Analysis of NHANES III (Phases 1&2)
$PbB_{fetal,\ 0.95}$	95th percentile PbB in fetus	ug/dL	10	10
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	Geometric standard deviation PbB	--	1.8	2.1
PbB_0	Baseline PbB	ug/dL	1.0	1.5
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.050	0.050
$AF_{S,\ D}$	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S,\ D}$	Exposure frequency (same for soil and dust)	days/yr	50	50
$AT_{S,\ D}$	Averaging time (same for soil and dust)	days/yr	365	365
PRG		**ppm**	**9,810**	**5,410**

Calculations of Preliminary Remediation Goals (PRGs)

U.S. EPA Technical Review Workgroup for Lead, Adult Lead Committee

Version date 6/21/09 **EDIT RED CELLS**

Variable	Description of Variable	Units	GSDi and PbBo from Analysis of NHANES 1999-2004	GSDi and PbBo from Analysis of NHANES III (Phases 1&2)
$PbB_{fetal,\ 0.95}$	95th percentile PbB in fetus	ug/dL	10	10
$R_{fetal/maternal}$	Fetal/maternal PbB ratio	--	0.9	0.9
BKSF	Biokinetic Slope Factor	ug/dL per ug/day	0.4	0.4
GSD_i	Geometric standard deviation PbB	--	1.8	2.1
PbB_0	Baseline PbB	ug/dL	1.0	1.5
IR_S	Soil ingestion rate (including soil-derived indoor dust)	g/day	0.330	0.330
$AF_{S,\ D}$	Absorption fraction (same for soil and dust)	--	0.12	0.12
$EF_{S,\ D}$	Exposure frequency (same for soil and dust)	days/yr	30	30
$AT_{S,\ D}$	Averaging time (same for soil and dust)	days/yr	365	365
PRG		**ppm**	**2,477**	**1,366**

APPENDIX C
COST ESTIMATE

APPENDIX C
COST ESTIMATE
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

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C.6 PCB Removal: Present Value
C.7 PCB Removal: Periodic Cost Breakdown
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C.9 Landfill Cover
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TABLE C.1A
REMEDIAL ALTERNATIVES COST SUMMARY
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Description	Capital Cost	Annual Operations and Maintenance Cost [a/]	Periodic Cost [b/]	Non-Discounted Constant Dollar Cost [c/]	TPV at 1.9% Discount Rate [d/]
PCB Soil Removal, Landfill Cover, and Institutional Controls	**$2,602,000**	**$4,000**	**$330,000**	**$3,053,000**	**$2,940,000**

Notes

[a/] Highest annual operations and maintenance (O&M) costs for remedial alternatives shown. Some costs decrease after a period of operation.

[b/] Highest annual periodic costs for remedial alternatives shown. Periodic costs may be less during a specific year.

[c/] Non-discounted constant dollar cost provided to show impact of discount rate on total present value (TPV).

[d/] TPV cost estimates are considered accurate to within -30% to +50% of actual costs. Discount rate and calculation is shown below.

Other Notes/Assumptions

1. Design and construction contingencies have been added to capital and O&M costs based on USEPA (2000) and professional judgment.
   USEPA. 2000. *A Guide to Developing and Documenting Cost Estimates During the Feasibility Study.* USEPA 540-R-00-002. July.

		Source
Discount Rate	1.90%	

TABLE C.1B
RESPONSE ACTIONS COST SUMMARY
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Description	Capital Cost	Annual Operations and Maintenance Cost [a/]	Periodic Cost [b/]	Non-Discounted Constant Dollar Cost [c/]	TPV at 1.9% Discount Rate [d/]
Institutional Controls (30 Year Duration)	$69,000	$4,000	$330,000	$520,000	$407,000
PCB Removal	$984,000	$0	$0	$984,000	$984,000
Landfill Cover	$1,549,000	$0	$0	$1,549,000	$1,549,000

Notes

[a/] Highest annual operations and maintenance (O&M) costs for remedial alternatives shown. Some costs decrease after a period of operation.

[b/] Highest annual periodic costs for remedial alternatives shown. Periodic costs may be less during a specific year.

[c/] Non-discounted constant dollar cost provided to show impact of discount rate on total present value (TPV).

[d/] TPV cost estimates are considered accurate to within -30% to +50% of actual costs.

Other Notes/Assumptions

1. Design and construction contingencies have been added to capital and O&M costs based on USEPA (2000) and professional judgment.

		Source
Discount Rate	1.90%	

TABLE C.2
INSTITUTIONAL CONTROLS
COST BREAKDOWN
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Item		Units		Unit Cost		Extended
Capital						
Implementation of Land Use Controls (See Table C.4, Attachment 1)	1	Lump Sum	$	55,000	$	55,000
				Sub-Total	$	55,000
Contingency (design + construction)	25%				$	13,800
				Capital Total	**$**	**68,800**
Annual Operation and Maintenance						
Land Use Controls Inspection and Reporting (30 Years)	1	each	$	3,200	$	3,200
Contingency	25%				$	800
				Annual Total	**$**	**4,000**
Periodic Costs						
Groundwater sampling, 12 wells, with QA/QC Samples (10%) (Table C.4, Attachment 2)	14	well	$	731	$	10,240
Annual Reporting (Table C.4, Attachment 3)	1	each	$	9,360	$	9,360

Asssumptions:
1) A 30-year duration is assumed for costs.
2) Groundwater will be sampled for 30 years.
3) Four samples can be collected each day.
4) Wells will be sampled biannually until the 30th year, and then twice that year.

TABLE C.3
INSTITUTIONAL CONTROLS
PRESENT VALUE
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Year	Capital Cost ($)	Annual O&M ($) (LUCs)	Periodic Costs ($)	Total Cost	Discount Factor at 1.9%	Present Value at 1.9%
Annual Cost for Remedial Alternatives with Source Control - Anticipated 10-Year Duration						
0	$ 68,800	$ -	$ -	$ 68,800	1.000	$ 68,800
1	$ -	$ 4,000	$ 19,600	$ 23,600	0.981	$ 23,160
2	$ -	$ 4,000	$ -	$ 4,000	0.963	$ 3,853
3	$ -	$ 4,000	$ 19,600	$ 23,600	0.945	$ 22,304
4	$ -	$ 4,000	$ -	$ 4,000	0.927	$ 3,710
5	$ -	$ 4,000	$ 19,600	$ 23,600	0.910	$ 21,480
6	$ -	$ 4,000	$ -	$ 4,000	0.893	$ 3,573
7	$ -	$ 4,000	$ 19,600	$ 23,600	0.877	$ 20,687
8	$ -	$ 4,000	$ -	$ 4,000	0.860	$ 3,441
9	$ -	$ 4,000	$ 19,600	$ 23,600	0.844	$ 19,923
10	$ -	$ 4,000	$ -	$ 4,000	0.828	$ 3,314
11	$ -	$ 4,000	$ 19,600	$ 23,600	0.813	$ 19,187
12	$ -	$ 4,000	$ -	$ 4,000	0.798	$ 3,192
13	$ -	$ 4,000	$ 19,600	$ 23,600	0.783	$ 18,478
14	$ -	$ 4,000	$ -	$ 4,000	0.768	$ 3,074
15	$ -	$ 4,000	$ 19,600	$ 23,600	0.754	$ 17,795
16	$ -	$ 4,000	$ -	$ 4,000	0.740	$ 2,960
17	$ -	$ 4,000	$ 19,600	$ 23,600	0.726	$ 17,138
18	$ -	$ 4,000	$ -	$ 4,000	0.713	$ 2,851
19	$ -	$ 4,000	$ 19,600	$ 23,600	0.699	$ 16,505
20	$ -	$ 4,000	$ -	$ 4,000	0.686	$ 2,746
21	$ -	$ 4,000	$ 19,600	$ 23,600	0.674	$ 15,895
22	$ -	$ 4,000	$ -	$ 4,000	0.661	$ 2,644
23	$ -	$ 4,000	$ 19,600	$ 23,600	0.649	$ 15,308
24	$ -	$ 4,000	$ -	$ 4,000	0.637	$ 2,547
25	$ -	$ 4,000	$ 19,600	$ 23,600	0.625	$ 14,742
26	$ -	$ 4,000	$ -	$ 4,000	0.613	$ 2,453
27	$ -	$ 4,000	$ 19,600	$ 23,600	0.602	$ 14,198
28	$ -	$ 4,000	$ -	$ 4,000	0.590	$ 2,362
29	$ -	$ 4,000	$ 19,600	$ 23,600	0.579	$ 13,673
30	$ -	$ 4,000	$ 39,199	$ 43,199	0.569	$ 24,562
TOTALS	**$ 68,800**	**$ 120,000**	**$ 333,194**	**$ 522,000**		**$ 406,600**

TABLE C.4
ATTACHMENT FOR INSTITUTIONAL CONTROLS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Attachment 1 - Implementation of Land Use Controls					
Subtask Description, Labor	**Quantity**	**Unit**	**Unit Cost**	**Cost**	**Source**
LUC Implementation Plan (including CEA)	1	Lump Sum	$ 30,000	$ 30,000	Prof. Judgement
Delineate Area onto Master Planning Maps/GIS	1	Lump Sum	$ 25,000	$ 25,000	Prof. Judgement
			Total	**$ 55,000**	

TABLE C.4
ATTACHMENT FOR INSTITUTIONAL CONTROLS
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Attachment 2 - Groundwater Monitoring, Sample Collection, and Analysis (per well)							
Equipment / Laboratory / Rentals	**Quantity**	**Unit**		**Unit Cost**		**Cost**	**Source**
Pickup Truck	0.25	Day	$	109	$	27	Vendor Pricing
Water Level meter	0.25	Day	$	31	$	8	Vendor Pricing
Groundwater Pump	0.25	Day	$	18	$	5	Vendor Pricing
Groundwater Quality Meter	0.25	Day	$	60	$	15	Vendor Pricing
Turbidity Meter	0.25	Day	$	16	$	4	Vendor Pricing
Laboratory Analyses (includes 10% QC Samples)							
VOC Analysis (SW8260B)	1	Sample	$	85	$	85	Lab Pricing
Pump	1	Sample	$	8	$	8	Vendor Pricing
Water Disposal (non-hazardous)	1	Drum	$	125	$	125	Est. Vendor Pricing
Tubing	15	Feet	$	1	$	15	Vendor Pricing
Sample Shipping	0.25	Cooler	$	200	$	50	Est. Vendor Pricing
Labor							
Env. Tech 1	3	Hour	$	55	$	165	Estimated
Env. Tech 2	3	Hour	$	75	$	225	Estimated
				Total	**$**	**731**	

Attachment 3 - Reporting - Annual							
Labor	**Quantity**	**Unit**		**Unit Cost**		**Cost**	**Source**
Project Manager	4	Hour	$	130	$	520	Estimated
Engineer/Geologist	60	Hour	$	110	$	6,600	Estimated
CADD/GIS	8	Hour	$	80	$	640	Estimated
Chemist, Senior	16	Hour	$	100	$	1,600	Estimated
				Total	**$**	**9,360**	

TABLE C.5
PCB REMOVAL
COST BREAKDOWN
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Item	Units		Unit Cost	Extended
Capital				
Excavation (see Table C.8 Attachments 1 through 4)	1	Lump Sum	$ 787,000	$ 787,000
			Sub-Total	$ 787,000
Contingency (design + construction)	25%			$ 196,800
			Capital Total	**$ 983,800**
Periodic Costs				
			Annual Total	**$ -**

TABLE C.6
PRESENT VALUE
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Year	Capital Cost ($)	Annual O&M ($) (LUCs)	Periodic Costs ($)	Total Cost	Discount Factor at 1.64%	Present Value at 1.64%
Annual Cost for Removal - Anticipated 2-Year Duration						
0	$ 983,800	$ -	$ -	$ 983,800	1.000	$ 983,800
1	$ -	$ -	$ -	$ -	0.984	$ -
2	$ -	$ -	$ -	$ -	0.968	$ -
TOTALS	**$ 983,800**	**$ -**	**$ -**	**$ 983,800**		**$ 983,800**

TABLEC.7
PERIODIC COST BREAKDOWN
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Year	Annual O&M (LUCs)	Periodic Cost Breakdown ($)	
Anticipated 2-Year Duration			
0		$ -	$ -
1		$ -	$ -
2		$ -	$ -
TOTALS	**$ -**	**$ -**	

TABLE C.8
ATTACHMENT FOR PCB REMOVAL
COST SUMMARY
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Attachment 1- Pre-Design Investigation					
Item	Quantity	Units	Unit Cost	Extended	Comments
Capital					
Investigation to determine lateral and vertical extent of PCB					
Mobilization	1	LS	$ 1,000.00	$ 1,000	Prof. Judgement
Geoprobe Drilling (Soil Borings)	10	/rig/day	$ 2,000.00	$ 20,000	Prof. Judgement
Boring Abandonment	504	per foot	$ 3.00	$ 1,512	Prof. Judgement
Drums	30	/drum	$ 65.00	$ 1,950	Prof. Judgement
Shelby tube	42	each	$ 100.00	$ 4,200	Vendor Pricing
Laboratory analysis - PCB (SW8082)	252	each	$ 165	$ 41,580	Lab Pricing
			Sub-Total	**$ 70,242**	

Attachment 2- Excavation Off-Site Disposal of PCB-Impacted Soil					
Item	Quantity	Units	Unit Cost	Extended	Comments
Capital					
Excavation Off-Site Disposal of PCB-Impacted Soil					
Remedial Action Work Plan	1	Lump Sum	$ 20,000.00	$ 20,000	Prof. Judgement
Mobilization and demobilization	1	Lump Sum	$ 12,000.00	$ 12,000	Prof. Judgement
Vegetative clearing	1	Lump Sum	$ 2,500.00	$ 2,500	Prof. Judgement
Excavate impacted soil (40 CY/hour)	17	Day	$ 11,800	$ 196,175	Prof. Judgement
Transport and disposal of impacted material at non-haz landfill	665	Tons	$ 110	$ 73,150	Prof. Judgement
Transport and disposal of impacted material at haz landfill	998	Tons	$ 275	$ 274,313	Prof. Judgement
Laboratory confirmation samples (SW8082)	30	each	$ 165	$ 4,950	Lab Pricing
Certified clean off-site fill for impacted soil makeup	786	CY	$ 19	$ 14,934	Assumes 20% more than disposed of off-site
Backfill and compact stockpiled overburden and off-site soil	5	Day	$ 7,600	$ 38,000	R.S. Means
Erosion and dust control	3	week	$ 1,750	$ 5,250	R.S. Means
Street sweeper	22	Days	$ 163	$ 3,575	Estimated
Pickup truck	22	Day	$ 109	$ 2,389	contractor bid
Surveying	1	Lump Sum	$ 6,000	$ 6,000	contractor bid
			Sub-Total	**$ 653,236**	
Design & Construction Oversite					
Labor					
Engineer/Geologist	176	Hour	$ 110	$ 19,360	Estimated
CAD/GIS	35	Hour	$ 24	$ 845	Estimated
Site Supervisor	176	Hour	$ 110	$ 19,360	Estimated
Project Manager	35	Hour	$ 130	$ 4,576	Estimated
				$ 44,141	

Attachment 3 - Well Abandonment and Replacement					
	Quantity	**Unit**	**Unit Cost**	**Extended Cost**	**Notes**
Well Abandonment Work Plan/ Health and Safety Plan	1	Lump Sum	$ 6,000	$ 6,000	Estimated
Field Oversight - Well Abandonment and Replacement	2	Well	$ 500	$ 1,000	Estimated
Well Abandonment Reports	1	Lump Sum	$ 7,600	$ 7,600	Estimated
Well Abandonment	2	Lump Sum	$ 400	$ 800	Estimated
Well Replacement	2	Lump Sum	$ 2,000	$ 4,000	Estimated
				$ 19,400	

Attachment 4 - Dewatering and Groundwater Treatment					
	Quantity	**Unit**	**Unit Cost**	**Extended Cost**	**Notes**
Groundwater Treatment -					
Groundwater production rate	10800	Gallon	$ 1.15	$ 12,420	1200 gallons per day for 9 days (estimate)
Frac tank mob/demob with decon	1	Lump Sum	$ 1,600	$ 1,600	contractor quote
Pump decon	1	Lump Sum	$ 5,000	$ 5,000	Prof. Judgement
Frac tank and pump Rental	1	Lump Sum	$ 2,200	$ 2,200	contractor quote for 2 weeks
		Subtotal - Dewatering and Treatment:		**$21,220**	
			Capital Total	**$ 787,000**	

Assumptions:

1) Area extent of impacted material is 2,925 square feet. Basis of extent is 2000 Versar PCB Geoprobe Soil Investigation Results. PCB results greater than 25 ppm were separated into 6 excavation areas ranging from 225 SF to 750 SF.
2) PDI assumes 10 borings for the larger areas and 4 borings for the smaller areas, with 6 samples per boring
2) Excavated material is estimated at 60% hazardous and 40% nonhazardous
3) Average depth interval of impacted material is based on each of 6 excavation areas, ranging from 42" to 102"
4) Total volume of impacted soil is 665 CY.
5) Unit density of impacted material is 2.5 tons per CY (1995. Pocket Ref. Thomas J. Glover).
6) Well abandonment needed for two nearby wells that will need to be abandoned and replaced due to excavation activities.
7) All impacted material will be transported to off-site landfill for disposal.
8) Confirmation samples will be collected at a rate of one per every 30 feet of sidewall and one per every 900 square feet of excavation base. http://www.state.nj.us/dep/srp/guidance/srra/soil_inv_si_ri_ra.pdf
9) Dewatering will consist of placement of an electric submersible pump in the bottom of the excavation and pumping to a Frac tank.
10) Groundwater will enter the excavation at a rate of 1,200 gallons per day and will be transported off-site for treatment/disposal.

TABLE C.9
LANDFILL COVER
COST BREAKDOWN
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Item		Units		Unit Cost		Extended
Capital						
Soil Cover Installation (see Table C.10 Attachment 1)	1	Lump Sum	$	1,233,000	$	1,233,000
Geotechnical borings (see Table C.10 Attachment 2)	1	Lump Sum	$	6,445	$	6,445
				Sub-Total	$	1,239,445
Contingency (design + construction)	25%				$	309,900
				Capital Total	**$**	**1,549,345**

TABLE C.10
ATTACHMENT FOR LANDFILL COVER
COST BREAKDOWN
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Attachment 1 - Landfill Cover					
Item	Quantity	Units	Unit Cost	Extended	Comments
Capital					
Landfill Soil Cover Installation					
Mobilization and site preparation	1	Lump Sum	$ 10,000.00	$ 10,000	Prof. Judgement
Clearing and grubbing	7.2	acre	$ 2,900.00	$ 20,880	Contractor Quote
Subgrad preparation and compaction	7.2	acre	$ 4,250.00	$ 30,600	Contractor Quote
Soil Cover material	7.2	acre	$ 55,000	$ 396,000	Contractor Quote
Placement of soil cover material	7.2	acre	$ 11,000	$ 79,200	Contractor Quote
Placement of vegetative layer material	7.2	acre	$ 3,800	$ 27,360	Contractor Quote
Seeding of soil caps	7.2	acre	$ 5,000	$ 36,000	Contractor Quote
Temporary erosion and sediment controls	900	LF	$10	$ 9,000	Contractor Quote
Permanent stormwater features	900	LF	$ 30	$ 27,000	Contractor Quote
Demobilization	1	Lump Sum	$ 4,000	$ 4,000	Contractor Quote
Subgrade material	14545	tons	$ 15	$ 218,182	Contractor Quote
Placement of Subgrade material	14545	tons	$ 6	$ 87,273	Contractor Quote
			Sub-Total	**$ 945,495**	
Design & Construction Oversite					
Labor					
Design & Construction Oversite Labor	3200	Hour	$ 90	$ 288,000	Prof. Judgement
				$ 288,000	
			Subtotal: Landfill Soil Cap Installation	**$ 1,233,000**	

TABLE C.10
ATTACHMENT FOR LANDFILL COVER
COST BREAKDOWN
SITE FTMM-02
FORT MONMOUTH, NEW JERSEY

Attachment 2 - Geotechnical Borings					
	Quantity	**Unit**	**Unit Cost**	**Extended Cost**	**Notes**
Capital					
Geotechnical Borings -					
Mobilization	1	LS	$ 1,500.00	$ 1,500	Contractor Quote
hand clearing	2	/boring	$ 50.00	$ 100	Contractor Quote
HAS Drilling	1	/rig/day	$ 1,850.00	$ 1,850	Contractor Quote
Geoprobe Drilling (Soil Boring)	1	/rig/day	$ 1,850.00	$ 1,850	Contractor Quote
Boring Abandonment	100	per foot	$ 3.00	$ 300	Contractor Quote
Drums	13	/drum	$ 65.00	$ 845	Contractor Quote
Shelby tube	2	each	100	$ 200	Contractor Quote
		Subtotal - Geotechnical borings:		**$6,445**	

Assumptions:
1) Area extent of impacted material is 7.2 acres.
2) Area to reseed is 7.2 acres.
3) Two geotechnical borings will be advanced at the site.
4) Soil cover is 2' in thickness (18" soil with 6" vegetative layer).