### **FINAL**

# **Remedial Investigation Report**

# **CW-2 Wastewater Treatment Lime Pit Site**

U. S. Army Installation Fort Monmouth Fort Monmouth, New Jersey



**Directorate of Public Works** 



March 7, 2005



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## **United States Army**

Fort Monmouth, New Jersey

# Remedial Investigation Report CW-2 Wastewater Treatment Lime Pit Site

Fort Monmouth, New Jersey

#### REMEDIAL INVESTIGATION REPORT FOR THE CW-2 WASTEWATER TREATMENT LIME PIT SITE FORT MONMOUTH, NEW JERSEY



#### PREPARED FOR:

#### UNITED STATES ARMY FORT MONMOUTH DIRECTORATE OF PUBLIC WORKS BUILDING 167 FORT MONMOUTH, NJ 07703

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#### **EXECUTIVE SUMMARY**

VERSAR, Inc. (VERSAR) has been contracted by the United States (U.S.) Army Installation, Fort Monmouth (Fort Monmouth), Directorate of Public Works (DPW), Fort Monmouth, New Jersey to prepare a Remedial Investigation Report (RIR) for the CW-2 Wastewater Treatment Lime Pit (Lime Pit) site based on work located in the Charles Wood Area of Fort Monmouth. This report addresses the remedial investigation activities conducted at this site between April 1997 and January 2001.

The CW-2 Lime Pit site is located southeast of Building 2700 adjacent to an electrical substation. The approximate area of the site is 1,751 square feet (0.04 acres). The CW-2 Lime Pit site was reportedly a lime pit that received liquid wastes from the east and south wings of Building 2700 and then discharged to the sanitary sewer. A dye test study was conducted and presented evidence that the lime pit was also receiving wastes from a toilet from the guard shack and a restroom designated for the handicapped near the east entrance. Currently, no liquid wastes are discharged to the sewer and are managed under the installation hazardous waste program.

The Roy F. Weston, Inc. (Weston) report, *Site Investigation, Fort Monmouth, New Jersey, Main Post and Charles Wood Areas, Site Investigation Report* (December 1995), presents the results of field investigation activities that were conducted at 13 sites at the Main Post Area and eight sites at the Charles Wood Area. The results of the investigation of the CW-2 Lime Pit site are included in the Weston Site Investigation (SI) report. Initial field investigation activities were conducted between November 1994 and March 1995. The field investigation activities included subsurface soil sampling, groundwater monitoring well installation and groundwater sampling.

A total of four monitoring wells comprise the quarterly groundwater monitoring program conducted by the DPW at the CW-2 Lime Pit site. Two monitoring wells (CW2-MW30 and CW2-MW31) were installed on the northwest and southwest sides of the lime pit. Two monitoring wells (CW2-MW32 and CW2-MW33) were installed on the northeast and southeast sides of the lime pit.

The soil samples collected by Weston in December 1994 were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs) and Target Analyte List (TAL) metals. According to Weston SI, two VOCs were detected in concentrations below the New Jersey Department of Environmental Protection (NJDEP) soil cleanup criteria. Eight SVOCs were detected below NJDEP soil cleanup criteria. Three pesticides were detected below the NJDEP soil cleanup criteria; however, the PCB compound was not detected in groundwater samples from the corresponding well location.

Groundwater sampling results indicate that tetrachloroethene (PCE) was detected in the groundwater in one of the wells exceeding the NJDEP GWQC. SVOCs pesticides and PCBs were not detected in groundwater samples. Three metals were detected exceeding



the GWQC. Surface water samples were collected in Wampum Brook and Mill Creek for use as background samples. No VOCs were detected in these surface water samples.

Weston concluded that the groundwater sample results for the CW-2 Lime Pit site indicate that PCE was detected in CW2-MW30, slightly exceeding the NJDEP GWQC. One PCB compound was detected slightly above the NJDEP soil cleanup criteria; however, the compound was not detected within the CW-2 Lime Pit site groundwater. The Weston SI report stated that the DPW recommended the implementation of a long-term monitoring program at the CW-2 Lime Pit site. This remedial investigation was undertaken to assess the groundwater quality at the CW-2 Lime Pit site and verify that no contaminants of concern (COCs) exist within the CW-2 Lime Pit site groundwater.

Fort Monmouth DPW conducted Remedial Investigation (RI) activities at the CW-2 Lime Pit site, including a quarterly groundwater sampling program. The purpose of this remedial investigation was to define the areal extent of potential pollutants and evaluate impacts to groundwater in the vicinity of the CW-2 Lime Pit site. RI groundwater activities were conducted from April 1997 and continued through January 2001.

A total of 126 groundwater samples were collected from four groundwater monitoring wells to evaluate potential chemical impacts to groundwater from the CW-2 Lime Pit site. The samples were collected and analyzed for VOCs, SVOCs, pesticides, PCBs and TAL metals. Two additional rounds of sampling were conducted using a low-flow groundwater sampling technique for TAL metals.

Based on the results of the groundwater quality evaluation, no VOCs, SVOCs, pesticides or PCBs were detected above the NJDEP GWQC. There were seven metals detected in groundwater samples at concentrations exceeding the NJDEP GWQC. However, none of these metals are considered to be COCs in site groundwater due to the process of elimination via categorization of background metals, reduction in concentration or non-detection of samples by low-flow sampling, and elimination of isolated and marginal detections. Therefore, no COCs exist within the groundwater and NFA is required concerning the groundwater at the CW-2 Lime Pit site.



#### 1.0 INTRODUCTION

VERSAR has been contracted by the U.S. Army Installation, Fort Monmouth DPW, Fort Monmouth, New Jersey to prepare an RIR for the CW-2 Lime Pit site based on work located in the Charles Wood Area of Fort Monmouth. This report addresses the remedial investigation activities conducted at this site between April 1997 and January 2001.

#### 1.1 Objectives

The objective of RI is to determine aquifer chemical and physical characteristics and to determine whether further remedial investigation or remedial action is required within the CW-2 Lime Pit site groundwater. The remedial investigation was conducted in accordance with New Jersey Administrative Code (NJAC) 7:26E - *Technical Requirements for Site Remediation* (July 1999).

The remedial investigation encompassed the following:

- Characterization of groundwater quality over time through quarterly groundwater sampling events conducted between April 1997 and January 2001.
- Investigation and evaluation of the designated aquifer uses, the associated aquifer classification, and the appropriate groundwater quality criteria for groundwater resources beneath the CW-2 Lime Pit site. The NJDEP Ground Water Quality Standards (GWQS) specify the quality criteria and designated uses for groundwater and also contain technical and general policies to ensure that the designated uses can be adequately protected.
- Comparison of the results of the groundwater quality and monitoring program with the NJDEP Ground Water Quality Criteria (GWQC).
- Formulation of an NFA proposal for consideration by the NJDEP based on the results of field and laboratory investigations and evaluation of the hydrogeologic conditions at the CW-2 Lime Pit site.

#### 1.2 Report Organization

This report is organized to minimize repetition. The findings of the Weston report entitled, *Site Investigation, Fort Monmouth, New Jersey, Main Post and Charles Wood Areas, Site Investigation Reports* (December 1995), were used as the basis for this remedial investigation program. **Section 2.0** provides background information and a general description of the CW-2 Lime Pit site located in the Charles Wood Area of Fort Monmouth, of which a large portion was provided by Weston (1995). **Section 3.0** describes and summarizes the RI field activities conducted at the CW-2 Lime Pit site, including the groundwater sampling. **Section 4.0** presents the physical characterization of the CW-2 Lime Pit site including the lithology and groundwater conditions. Chemical



characterization of the CW-2 Lime Pit site is presented in **Section 5.0**, which includes groundwater sampling results and the determination of COCs. Conclusions and a recommendation for NFA for groundwater at the CW-2 Lime Pit site are included in **Section 6.0.** References used to prepare this RIR are listed in **Section 7.0.** 



#### 2.0 SITE BACKGROUND AND ENVIRONMENTAL SETTING

The following sections describe the site background and environmental setting of the area surrounding Fort Monmouth and the CW-2 Lime Pit site. Included is a description of the site location, background, current conditions and environmental setting.

#### 2.1 Site Location and Description

Fort Monmouth is located in the central-eastern portion of New Jersey in Monmouth County, approximately 45 miles south of New York City and 70 miles northeast of Philadelphia (Figure 2-1). In addition to the Main Post, the installation includes two subposts, the Charles Wood Area and the Evans Area. The Main Post encompasses approximately 630 acres and is generally bounded by State Highway 35, Parkers Creek, Lafetra Creek, the New Jersey Transit Railroad and a residential area to the south. The post was established in 1918 during World War I (WWI) as an Army Signal Corps training center. The Main Post currently provides administrative, training and housing support functions, as well as providing many of the community facilities for Fort Monmouth. The Charles Wood Area is located one mile west of the Main Post and is comprised of approximately 511 acres. The Charles Wood Area is used primarily for research and development, testing and personnel housing units. The primary mission of Fort Monmouth is to provide command, administrative, and logistical support for Headquarters, U.S. Army Communications and Electronics Command (CECOM). CECOM is a major subordinate command of the U.S. Army Materiel Command (AMC) and is the host tenant at Fort Monmouth.

The CW-2 Lime Pit site is located southeast of Building 2700 (not shown on maps) adjacent to an electrical substation (**Figure 2-2**). The approximate area of the site is 1,751 square feet (0.04 acres). The CW-2 Lime Pit site was reportedly a lime pit that received liquid wastes from the east and south wings of Building 2700 and then discharged to the sanitary sewer. A dye test study was conducted and presented evidence that the lime pit was also receiving wastes from a toilet from the guard shack and a restroom designated for the handicapped near the east entrance. The plumbing has since been re-routed to connect directly to the sewer. Currently, no liquid wastes are discharged to the sewer and are managed under the installation hazardous waste program.

#### 2.2 Site Background

The U.S. Army Corps of Engineers (USACE), Baltimore District, initially contracted Weston to perform a field investigation at Fort Monmouth, New Jersey. This investigation was conducted at two separate areas of Fort Monmouth, the Main Post and the Charles Wood areas. Suspected hazardous waste sites were initially identified at Fort Monmouth in a report prepared by the U.S. Army Toxic and Hazardous Materials Agency (USATHAMA, 1980). The USATHAMA report identified 37 sites with known or suspected waste materials on the Main Post and the two subposts (Charles Wood and Evans Area). A background investigation was conducted by Weston of the 37

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sites and eight additional sites that were identified by Fort Monmouth and the NJDEP. Weston's findings were described in a report titled, *Investigation of Suspected Hazardous Waste Sites at Fort Monmouth, New Jersey* (1993). In this background report, additional investigations (including sampling and other field work) were recommended at 22 of the sites on the Main Post and Charles Wood areas, including the CW-2 Lime Pit site. NJDEP approved the recommendations on April 20, 1995. Additional investigations were also recommended at the Evans Area, and such investigations are being completed under the Base Realignment and Closure (BRAC) program.

The Weston report, *Site Investigation, Fort Monmouth, New Jersey, Main Post and Charles Wood Areas, Site Investigation Report* (December 1995), presents the results of field investigation activities that were conducted at 13 sites at the Main Post Area and eight sites at the Charles Wood Area. The results of the investigation of the CW-2 Lime Pit site are included in the Weston SI report. Initial field investigation activities were conducted between November 1994 and March 1995. The field investigation activities included subsurface soil sampling, groundwater monitoring well installation and groundwater sampling. The Weston SI report was used as the basis for the supplemental remedial investigations of the CW-2 Lime Pit site described in the following sections of this report.

A total of four monitoring wells (CW2-MW30, CW2-MW31, CW2-MW32 and CW2-MW33) comprise the quarterly groundwater monitoring program conducted by the DPW at the CW-2 Lime Pit site. Two monitoring wells (CW2-MW30 and CW2-MW31) were installed on the northwest and southwest sides of the lime pit. Two monitoring wells (CW2-MW32 and CW2-MW33) were installed on the northeast and southeast sides of the lime pit. The four monitoring wells were installed by J.C. Anderson in December 1994. The wells were constructed wit 4-inch diameter 10 Slot PVC ranging to depths of 15-16 feet below ground surface (bgs). The monitoring well construction details are presented in **Table 2-1**. Well boring logs and monitoring well records are provided in **Appendix B**. The locations of the four monitoring wells at the CW-2 Lime Pit site are shown in **Figure 2-3**.

The soil samples collected by Weston in December 1994 were analyzed for VOCs, SVOCs, pesticides, PCBs and TAL metals. According to Weston SI, two VOCs were detected in concentrations below the NJDEP soil cleanup criteria. Eight SVOCs were detected below NJDEP soil cleanup criteria. Three pesticides were detected below the NJDEP soil cleanup criteria. One PCB in SB-30 was detected slightly above the NJDEP soil cleanup criteria; however, the PCB compound was not detected in groundwater samples from the corresponding well location CW2-MW30. PCBs were not detected in SB-31, SB-32 and SB-33.

Groundwater sampling results indicate that PCE was detected in the groundwater in one of the wells (CW2-MW32) exceeding the NJDEP GWQC. SVOCs pesticides and PCBs were not detected in groundwater samples. Three metals were detected exceeding the GWQC. Surface water samples were collected in Wampum Brook and Mill Creek for use as background samples. No VOCs were detected in these surface water samples.



Weston concluded that the groundwater sample results for the CW-2 Lime Pit site indicate that PCE was detected in CW2-MW30, slightly exceeding the NJDEP GWQC. One PCB compound was detected slightly above the NJDEP soil cleanup criteria; however, the compound was not detected within the CW-2 Lime Pit site groundwater. The Weston SI report stated that the DPW recommended the implementation of a long-term monitoring program at the CW-2 Lime Pit site. This remedial investigation was undertaken to assess the groundwater quality at the CW-2 Lime Pit site and verify that no COCs exist within the CW-2 Lime Pit site groundwater.

#### 2.3 Current Conditions

VERSAR conducted a site walk on June 20, 2001 to assess current conditions at the CW-2 Lime Pit site. The site consisted of an electrical substation positioned southeast of Building 2700 within the parking lot area. Site photographs are not available due to the proximity of the Site to Building 2700.

#### 2.4 Environmental Setting

The following is a description of the geological/hydrogeological setting of the area surrounding the CW-2 Lime Pit site. Included is a description of the regional geology and hydrogeology of the area surrounding Fort Monmouth, as well as descriptions of the local geology and hydrogeology of the Charles Wood Area.

#### 2.4.1 Regional Geology

Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. The CW-2 Lime Pit site is located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands. The geologic map of New Jersey is provided as **Figure 2-4**.

In general, New Jersey Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, sand and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapecza, 1989). These sediments, predominantly derived from deltaic, shallow marine and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

The formations record several major transgressive/regressive cycles and contain units, which are generally thicker to the southeast and reflect a deeper water environment. More than 20 regional geologic units are present within the sediments of the Coastal Plain. 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 and Navesink Formations). The individual thickness for these units varies greatly (e.g., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line



(e.g., a boundary zone between older, resistant rocks and younger, softer plain sediments) to greater than 6,500 feet in Cape May County (Brown and Zapecza, 1990).

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank Sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank Sand is a yellowish-gray to reddish brown clayey, medium-to-coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica and glauconite.

The Tinton Sand conformably overlies the Red Bank Sand and ranges from a clayey medium to very coarse-grained feldspathic-quartz and glauconite-sand to a glauconitic-coarse sand. The color varies from dark yellowish orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit. The upper part of the Tinton is often highly oxidized and iron oxide encrusted (Minard, 1969). Groundwater occurs beneath the site at a depth of approximately 2 to 12 feet bgs.

The Kirkwood Formation (part of the Kirkwood-Cohansey system) crops out southeast of the Main Post and dips to the southeast at a slope of 20 feet per mile (Jablonski, 1968). The Kirkwood Formation consists of alternating layers of sand and clay. The upper unit is a light gray to yellowish-brown, fine-grained quartz sand with quartz nodules and small pebbles. The lower unit is brown silt in Monmouth County (Jablonski, 1968).

As presented in the *Site Investigation Report - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey*, prepared by Weston (1995), several natural and anthropogenic factors contribute to the wide range in concentrations of metals in soils, which further impact the concentration of metals in groundwater. Soils derived from the glauconitic sands contain abundant aluminum, calcium, potassium, iron, magnesium and manganese (among others), which are likely to be present at elevated concentrations in the groundwater, particularly when sediments are entrained in the collected groundwater samples.

As presented in the Weston SI, the boring logs from monitoring well installations at the CW-2 Lime Pit site indicate that the lithology consists of asphalt (0.5 feet) underlain by alternating layers of reworked sand, silt and broken concrete gravel pieces with interbedded plant-root fragments. Borehole logs also represent a lithology consisting of light brown coarse to fine sand with silt and greenish-gray clay at this site. Groundwater saturation was observed at approximately 1-8 feet bgs at each well location during drilling activities at the CW-2 Lime Pit site. Water level elevation data collected during the Weston SI indicate that the local groundwater flow is towards the southeast toward the tributary of Wampum Brook.



#### 2.4.2 Hydrogeology

Fort Monmouth lies in the Atlantic and Eastern Gulf Coastal Plain groundwater region (Meisler et al., 1988). This groundwater region is underlain by undeformed, unconsolidated to semi-consolidated sedimentary deposits. The chemistry of the water near the surface is variable with low dissolved solids and high iron concentrations. The water chemistry in areas underlain by glauconitic sediments (such as Red Bank, Tinton and Hornerstown Sands) is dominated by calcium, magnesium, manganese, aluminum and iron. The sediments in the area of Fort Monmouth were deposited in fluvial-deltaic to near shore environments.

The water table aquifer in the Main Post Area 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 Wenonah Mount Laurel Aquifer (Zapecza, 1984).

Wells installed in the Red Bank and Tinton Sands produce 2 to 25 gallons per minute (gpm) (Jablonski, 1968). Groundwater is typically encountered at the Main Post and in the surrounding areas at shallow depths below ground surface (2 to 9 feet bgs). Water in the surficial aquifer generally flows east toward the Atlantic Ocean.

Based on a review of the NJDEP GWQS (NJAC 7:9-6), January 7, 1993, Versar has determined that the site is underlain by a Class III-A aquifer. A formal presentation of this finding was made to the NJDEP on April 17, 2001. The primary designated use for Class III-A groundwater is the release or transmittal of groundwater to adjacent classification areas and surface water, as relevant. Secondary designated uses in Class III-A include any reasonable use. Further discussion of the Class III-A aquifer classification is presented in **Section 2.4.3.** 

Shallow groundwater may be locally influenced within the Main Post Area by the following factors:

- Tidal influence (based on proximity to the Atlantic Ocean, rivers, and tributaries)
- Topography
- Nature of the fill material within the Main Post Area
- Presence of clay and silt lenses in the natural overburden deposits
- Local groundwater recharge areas (e.g., streams, lakes)
- Roadways, utility conduits and stormwater culverts

Due to the fluvial nature of the overburden deposits (e.g., sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. The groundwater flow in the vicinity of the CW-2 Lime Pit site is towards the southeast.

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#### 2.4.3 Aquifer Classification

On review of the NJDEP Groundwater Quality Standards (N.J.A.C. 7:9-6), January 7, 1993, the CW-2 Lime Pit site is found to be underlain by a Class III-A aquifer (**Figure 2-5**). The primary designated use for Class III-A ground water is the release or transmittal of groundwater to adjacent classification areas and surface water, as relevant. Secondary designated uses in Class III-A include any reasonable uses. For an area to be classified as a Class III-A aquifer, the ground water must meet the following characteristics:

- Class III-A ground water includes portions of the saturated zones (that meet the criteria below) of the Woodbury Formation, Merchantville Formation, Marshalltown Formation, Navesink Formation, Hornerstown Formation, aquitard formations of the Potomac-Raritan-Magothy aquifer system and the Kirkwood aquifer system, portions of the glacial moraine and glacial lake deposits, and other geologic units having the characteristics of an aquitard. Class III-A areas have the following characteristics (N.J.A.C. 7:9-6.5):
  - The average thickness of a Class III-A area must be at least 50 feet.
  - Typical hydraulic conductivity of a Class II-A aquifer is approximately 0.1 feet per day or less.
  - The aerial extent defined as Class III-A must be at least 100 acres.

The shallow aquifer at Fort Monmouth meets each of the four criteria listed above. These criteria are discussed below

- As presented in **Figure 2-6**, Fort Monmouth is located within the outcrop area of the "Navesink-Hornerstown Confining Unit." The Navesink and Hornerstown Formations are part of the Composite Confining Unit (Martin, 1998), which also includes the Red Bank Sand, Tinton Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation, and the basal clay of the Kirkwood Formation (see **Section 2.4.2**).
  - **Figure 2-7** also illustrates the thickness of the Hornerstown-Navesink Confining Unit, which in the vicinity of Fort Monmouth, is approximately 125 feet.
- Published hydraulic conductivities (Martin, 1998) for the Navesink-Hornerstown Confining Unit, yielding a geometric mean of 0.12 feet per day.
- The area of Fort Monmouth is greater than 100 acres.

Due to the fluvial nature of the overburden deposits (e.g., sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. The groundwater flow in the vicinity of the CW-2 Lime Pit site is assumed to be to the southeast towards a Tributary of Wampum Brook.

#### **2.4.4** Soils

According to the U.S. Department of Agriculture (USDA), Soil Conservation Service, Monmouth County Soil Survey, the majority of the Main Post and Charles Wood areas



are covered by urban land (**Figure 2-8**). The soil survey describes urban land as areas where concrete, asphalt, buildings, shopping centers, airports or other impervious surfaces cover 80 percent or more of the surface. In addition, the survey indicated that the natural subsurface soils have largely been replaced with artificial or foreign fill materials (developed land with disturbed soils). The following soil series and classification units are mapped in the Main Post and Charles Wood areas:

- DoB Downer sandy loam (with 2 to 5 percent slopes);
- FrB Freehold sandy loam (with 2 to 5 percent slopes);
- FUB Freehold sandy loam/urban land complex (with 0 to 10 percent slopes);
- HnA Holmdel sandy loam (with 0 to 2 percent slopes);
- HV Humaquepts, frequently flooded;
- KvA Kresson loam (with 0 to 5 percent slopes);
- PT Pits, Sand and Gravel;
- UA Udorthents, smoothed; and
- UD Udorthents urban land complex (with 0 to 3 percent slopes).

The Downer series soils are well-drained soils that are found on uplands and terraces. The soils are formed in acid, silty coastal plain sediments. The Freehold soils are also well drained and are formed in acid, loamy, coastal plain sediments that, by volume, are 1 to 10 percent glauconite and are found on uplands. The Humaquepts soils are somewhat poorly- to very poorly- drained soils that are formed in stratified, sandy, or loamy sediments of fluvial origins. The Humaquepts soils are located on the floodplain and are subject to flooding several times each year. The Kresson loam is a nearly level to gently sloping soil and is somewhat poorly drained. The soil is found on low divides and in depressions. The Udorthents soils have been altered by excavation or filling activities. In filled areas, these soils consist of loamy material that is more than 20 inches thick. The filled areas include floodplain, tidal marshes and areas with moderately, well drained to very poorly drained soils. Some Udorthent soils contain concrete, asphalt, metal and glass. The soils in the vicinity of the CW-2 Lime Pit site are classified as HnA - Holmdel sandy loam (with 0 to 2 percent slopes).

#### 2.4.5 Topography and Surface Drainage

Over the last 80 years, the natural topography of Fort Monmouth has been altered by excavation and filling activities conducted by the military. The CW-2 Lime Pit site is located on the floodplain of Wampum Brook. The USGS topographic map (**Figure 2-1**) shows that the land surface of the site is relatively flat at an elevation of approximately 60 feet above mean sea level (amsl).

Surface water bodies in the vicinity of the Charles Wood Area include two unnamed tributaries of Wampum Brook. Wampum Brook is joined by several unnamed tributaries east of the Charles Wood Area, prior to becoming Wampum Lake. Wampum Lake discharges into Mill Creek, which flows toward the Main Post Area.

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The U.S Fish and Wildlife Service (FWS) National Wetland Inventory Long Branch quadrangle maps indicate the presence of several wetlands at the Main Post and Charles Wood areas. However, in the vicinity of the CW-2 Lime Pit site, the golf course lake is classified as palustrine open water/unknown bottom, and several areas along the unnamed tributaries of Wampum Brook are classified as palustrine forested wetland, broad-leaved deciduous.

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#### 3.0 SITE ACTIVITIES

Fort Monmouth DPW conducted RI activities at the CW-2 Lime Pit site, including a quarterly groundwater sampling program. The purpose of this remedial investigation was to define the areal extent of potential pollutants and evaluate impacts to groundwater in the vicinity of the CW-2 Lime Pit site. RI groundwater activities were conducted from April 1997 and continued through January 2001. These activities were managed by the Fort Monmouth DPW and performed by TECOM-Vinnell Services (TVS) and reported by VERSAR. The details of remedial investigation activities that occurred at the CW-2 Lime Pit site are described in the following sections.

#### 3.1 Groundwater Sampling Activities

As a part of the remedial investigation, a quarterly groundwater sampling program was conducted by the DPW from April 1997 through January 2001 at the CW-2 Lime Pit site. Sampling activities were performed in accordance with the *Fort Monmouth Standard Sampling Operating Procedure* (1997).

Groundwater samples were collected during 16 rounds of quarterly sampling events and were analyzed for VOCs, SVOCs, pesticides, PCBs and TAL metals. Two additional low-flow sampling rounds were analyzed for TAL metals which are addressed below. A total of 126 groundwater samples were collected as a part of the groundwater sampling program, including 18 duplicate samples, 18 field blanks and 18 trip blanks for quality assurance/quality control (QA/QC), were collected from a total of four 4-inch diameter monitoring wells (CW2-MW30, CW2-MW31, CW2-MW32 and CW2-MW33).

Copies of the chain-of-custody for the laboratory analyses can be found in **Appendix C.** A summary of the groundwater sampling activities, including rounds, well IDs, sample IDs, sample locations, collection/analysis date, analytical parameters and analysis method, is provided in **Table 3-1**. The results of these analyses are discussed in **Section 5.1**.

As presented in the Weston SI Report, several natural and anthropogenic factors contribute to the wide range in concentrations of metals in soils, which further impact the concentration of metals in groundwater. Soils derived from the glauconitic sands contain abundant aluminum, calcium, potassium, iron, magnesium and manganese (among others), which are likely to be present at elevated concentrations in the groundwater, particularly when sediments are entrained in the collected groundwater samples. A low-flow sampling methodology was proposed for use by the DPW and accepted by the NJDEP to assess the impact of entrained sediments on the dissolved phase metals concentrations at the CW-2 Lime Pit site. Using a low-flow sampling methodology to reduce the presence of entrained sediment has generally yielded substantial reductions in the dissolved phase concentrations of metals, such as arsenic, antimony, beryllium, cadmium, chromium, cobalt, lead, mercury, selenium, silver, thallium and vanadium at Fort Monmouth sites. Significant decreases in the concentrations of metals characteristic of glauconitic sand also were observed. These included aluminum, barium, calcium, copper, iron, magnesium, manganese, nickel, potassium, sodium and zinc.



In consideration of the potential benefits of the low-flow sampling procedure, two additional rounds of low-flow sampling (Low-flow #1 and Low-flow #2) were conducted on August 23, 2000, August 24, 2000 and October 3, 2000 using a low-flow groundwater sampling technique. A total of 14 samples out of the total 126 groundwater samples were collected and analyzed only for TAL metals, to determine whether elevated metal concentrations observed in the groundwater samples are due to sediments rather than groundwater. The samples were analyzed by the Fort Monmouth Environmental Testing Laboratory (FMETL) for TAL metals utilizing United States Environmental Protection Agency (USEPA) Methods 3120B and 3112B. The results of these analyses are discussed in Section 5.0.

Sampling equipment was thoroughly decontaminated before and after each use, in accordance with the *Fort Monmouth Standard Operating Procedures* (1997). The sample containers were labeled, sealed, packed in ice and transported to the FMETL under proper chain-of-custody procedures.

#### 3.2 Groundwater Depth Measurements

During each of the groundwater monitoring rounds, measurements of the depth-to-water in each of the monitoring wells were recorded with an accuracy of 0.01 feet. These depth-to-water measurements, recorded from April 1997 through January 2001, are presented in **Table 3-2**. The groundwater elevation at each well was calculated by subtracting the measured depth to groundwater from the elevation of the top of the well casing with the depth to water at the well. The groundwater elevations are discussed in **Section 4.2**.



#### 4.0 SITE PHYSICAL CHARACTERISTICS

The following sections represent the findings of the site geologic and hydrogeologic characterization program for the CW-2 Lime Pit site. These sections include a detailed discussion of the physical properties of the unconsolidated soil, bedrock and groundwater underlying the study area. Groundwater elevation and water quality data collected by the DPW from April 1997 to January 2001 are presented in this section.

#### 4.1 Lithology

The lithology encountered at the CW-2 Lime Pit site consists primarily of fill material, fine sand, silt and clay. A geologic cross section (A-A') was prepared for the CW-2 Lime Pit site. The cross section location map is included as **Figure 4-1**. The data used to create the cross section is presented in **Table 4-1**.

The cross-section A-A' is presented in **Figure 4-2**. Cross section A-A' depicts the profiles for monitoring wells CW2-MW30, CW2-MW31, CW2-MW32 and CW2-MW33. CW2-MW30, CW2-MW31, CW2-MW32 and CW2-MW33 encountered fill consisting of lumber and concrete fragments interbedded with coarse to fine sand and silt with greenish-gray clay. Groundwater was encountered at depths ranging from 1-8 feet bgs.

As stated in **Section 2.4.2**, the wide range of concentrations of metals in soils further impact the concentration of metals in groundwater. Soils derived from glauconitic sands contain abundant aluminum, calcium, potassium, iron, magnesium and manganese (among others), which are likely to be present at elevated concentrations in the groundwater, particularly when sediments are entrant during the collection of groundwater samples.

#### 4.2 Groundwater Flow Direction

Groundwater contour maps (**Figure 4-3a** through **Figure 4-3q**) were generated based on groundwater depth measurements from the monitoring wells collected from April 1997 through January 2001. The groundwater underlying the site appears to be flowing consistently towards the southeast and east towards a tributary of Wampum Brook. However, slight changes in groundwater depth measurements from July 1997 indicate a groundwater flow reversal towards the north and northwest; this may have been caused by the presence of an extremely small site gradient and is likely to be anomalous.



#### 5.0 SITE CHEMICAL CHARACTERIZATION

This section includes a discussion of the chemical analytical characterization of the site based on the various samples collected and analyzed from the site, including 16 rounds of groundwater monitoring well samples and two rounds of low flow groundwater sampling samples. The DPW personnel were responsible for the collection of samples during this site investigation. Sample analyses were performed by the FMETL, a New Jersey certified laboratory (Certification No. 13461).

#### 5.1 Groundwater Sample Results

A total of 126 groundwater samples were collected from four groundwater monitoring wells to evaluate potential chemical impacts to groundwater from the CW-2 Lime Pit site. The laboratory analytical results are summarized in **Table 5-1**. This section presents the results of laboratory analyses performed for the 16 rounds of groundwater sampling that were collected from April 1997 through January 2001 from the four monitoring wells at the CW-2 Lime Pit site. The four monitoring wells CW2-MW30, CW2-MW31, CW2-MW32 and CW2-MW33 were installed in December 1994. The samples were collected and analyzed for VOCs, SVOCs, pesticides, PCBs and TAL metals. Two additional rounds of sampling were conducted on August 23, August 24 (Low Flow #1) and October 3, 2000 (Low Flow #2) using a low-flow groundwater sampling technique for TAL metals. As stated above, a low-flow sampling methodology was proposed for use by the DPW and accepted by the NJDEP to assess the impact of suspended sediments on the dissolved phase metals concentrations at the site.

As discussed in **Section 2.4.3**, Fort Monmouth is underlain by a Class III-A aquifer. The groundwater quality criteria for Class III-A is considered to be the criteria for the most stringent classification for vertically or horizontally adjacent ground waters that are not Class III-A (N.J.A.C. 7:9-6.7e). The NJDEP criteria used for comparison of groundwater analytical results were the higher of the Practical Quantitation Limits (PQLs) and the NJDEP GWQC for Class II-A aquifers (N.J.A.C. 7:9-6, Table 1). Analytes detected in groundwater samples at concentrations above the NJDEP criteria are bold and highlighted in **Table 5-1**. The laboratory data sheets are provided in **Appendix C**.

Two VOCs were detected in groundwater above below the NJDEP criteria. Four SVOCs were detected in groundwater samples below the NJDEP criteria. There were no pesticides or PCBs detected during the groundwater sampling events at any of the four groundwater monitoring wells. A total of 22 TAL metals were detected in groundwater samples during the reporting period. Seven TAL metals were detected at concentration exceeding their respective NJDEP criteria, while the remaining fifteen metals were detected at concentrations below their respective NJDEP criteria.

#### **5.1.1** Volatile Organic Compounds

No VOCs were detected above their respective GWQC at the site.



#### 5.1.2 Semi-Volatile Organic Compounds

No SVOCs were detected above their respective GWQC at the site.

#### 5.1.3 Pesticides and PCBs

No pesticides or PCBs were detected at the site.

#### 5.1.4 TAL Metals

During 16 groundwater sampling rounds and two low-flow sampling rounds, a total of seven TAL metals were detected above their respective NJDEP criteria in at least one sample at the CW-2 Lime Pit site.

**Aluminum** was detected at concentrations exceeding the GWQC of 200 ug/L during nine separate rounds of sampling collected at four separate monitoring well locations. Concentrations ranged from 204 ug/L in CW2-MW30 (sampling round #4) to 623 ug/L in CW2-MW33 (Low-flow #1).

*Arsenic* was detected at concentrations exceeding the GWQC of 8.0 ug/L during three separate rounds of sampling collected at two separate monitoring well locations. Concentrations ranged from 8.3 ug/L in CW2-MW30 (sampling round #8) to 11.5 ug/L in CW2-MW30 (sampling round #7).

*Iron* was detected at concentrations exceeding the GWQC of 300 ug/L during 18 separate rounds of sampling collected at four separate monitoring well locations. Concentrations ranged from 834 ug/L in CW2-MW30 (Low-flow #2) to 115,100 ug/L in CW2-MW31 (sampling round #5).

*Lead* was detected at concentrations exceeding the GWQC of 10 ug/L during five separate rounds of sampling collected at three separate monitoring well locations. Concentrations ranged from 21.8 ug/L in CW2-MW30 (sampling round #14) to 46.6 ug/L in CW2-MW30 (sampling round #13).

*Manganese* was detected at concentrations exceeding the GWQC of 50 ug/L during 18 separate rounds of sampling collected at four separate monitoring well locations. Concentrations ranged from 53.9 ug/L in CW2-MW32 (sampling round #12) to 519 ug/L in CW2-MW33 (sampling round #2).

*Mercury* was detected at concentrations exceeding the GWQC of 2.0 ug/L during one separate round of sampling collected at one separate monitoring well location (CW2-MW30) at a concentration of 2.3 ug/L (sampling round #7).

**Sodium** was detected at concentrations exceeding the GWQC of 50,000 ug/L during one separate round of sampling collected at one separate monitoring well location (CW2-MW33) at a concentration of 84,100 ug/L (Low-flow #1).

5-2



#### 5.2 Contaminants of Concern

There were no VOCs, SVOCs, pesticides or PCBs detected in the groundwater at concentrations exceeding the NJDEP criteria. There were seven metals that were detected at concentrations exceeding the NJDEP criteria including (aluminum, arsenic, iron, lead, manganese, mercury and sodium). A discussion of these exceedences and whether they will be presented as COCs is discussed below. **Table 5-2** summarizes the process used to determine COCs and is discussed below.

As presented in the Weston SI Report (1995), several natural and man-made factors contribute to the wide range in concentrations of metals in soils, which further impact the concentration of metals in groundwater. Soils derived from the glauconitic sands contain abundant aluminum, calcium, potassium, iron, magnesium and manganese (among others), which are likely to be present at elevated concentrations in the groundwater, particularly when sediments are entrained in the collected groundwater samples. A low flow sampling methodology was proposed for use by the DPW and accepted by the NJDEP to assess the impact of suspended sediments on the dissolved phase metals concentrations at the site. Using a low flow sampling methodology to reduce the presence of suspended sediment yielded substantial reductions in the dissolved phase concentrations of metals, particularly for the constituents regarded as "non-native" (e.g., arsenic, antimony, beryllium, cadmium, chromium, cobalt, lead, mercury, selenium, silver, thallium and vanadium). Significant decreases in the concentrations of naturally occurring metals also were observed, including aluminum, barium, calcium, copper, iron, magnesium, manganese, nickel, potassium, sodium and zinc. However, the native metal constituents (e.g., those indigenous to the soil types present at Fort Monmouth) were consistently present in the groundwater, even when the low-flow sampling methodology was employed.

The seven metals detected in site groundwater at concentrations exceeding the NJDEP GWQC (aluminum, arsenic, iron, lead, manganese, mercury and sodium) are distinguished into background metals and non-native metals. The indigenous metals are compared to the Fort Monmouth Summary of site-specific Maximum Background Concentrations (MBC), identified in the Weston SI, which are presented in **Table 5-2**. The non-native metals are discussed in relation to the NJDEP GWQC only.

Of the seven metals detected that exceeded the NJDEP GWQC, four metals (aluminum, iron, manganese and sodium) are common background constituents in Monmouth County and the Main Post and Charles Wood Area soils. The water chemistry in areas underlain by glauconitic sediments (such as Red Bank, Tinton and Hornerstown Sands) is dominated by calcium, magnesium, manganese, aluminum and iron. Elevated concentrations of these metals are routinely observed in groundwater samples collected at Fort Monmouth. The groundwater analytical results for (aluminum, iron, manganese and sodium) were compared with the low flow sampling results to their respective MBCs. These four background metals are not considered to be COCs in site groundwater.

There were three non-native metals that exceeded the NJDEP GWQC (arsenic, lead and mercury). The groundwater analytical results were compared with the low-flow sampling



results to the NJDEP GWQC. The two separate rounds of low-flow sampling August 23-24, 2000 and October 3, 2000 were performed during the quarterly groundwater sampling program, using the low-flow groundwater sampling technique as discussed in **Section 3.2.1**. This technique was used to determine if the detected metal concentrations observed in the groundwater samples are a function of contaminated sediments suspended in the groundwater during the course of well purging and sampling activities, or an accurate representation of aquifer/groundwater conditions. This low-flow sampling approach resulted in reduced concentrations or non-detections of the three uncharacteristic metals (arsenic, lead and mercury), during the two rounds of low-flow groundwater sampling conducted at the site. Therefore, the three non-native metals that exceeded the NJDEP GWQC are not considered to be COCs in CW-2 Lime Pit site groundwater.

#### 5.3 Quality Assurance/Quality Control

To verify the reliability of the analytical results, VERSAR reviewed the holding times for each sample and the results of the analysis of 18 method blanks for VOCs, 17 method blanks for SVOCs, 16 method blanks for pesticides and PCBs, 17 method blanks for TAL metals, 16 trip blanks, 18 field blanks and 18 field duplicate samples. Samples were analyzed by the FMETL within the prescribed holding time requirements for each analytical method.

#### Method Blanks

Laboratory method blanks accompanied each batch of samples for the CW-2 Lime Pit site. These method blanks consist of laboratory grade water that is processed identically to the samples and analyzed with the sample batch. A total of 18 method blanks for VOCs, 17 method blanks for SVOCs, 16 method blanks for pesticides and PCBs and 17 method blanks for TAL metals were analyzed with the CW-2 Lime Pit site samples.

Four SVOCs were detected in at least one method blank sample. These SVOCs were benzyl alcohol, bis(2-ethylhexyl)phthalate, diethylphthalate and di-n-butylphthalate. None of these SVOCs were detected at a concentration exceeding their respective NJDEP criteria. Their presence in only a few samples is not indicative of a widespread laboratory contamination problem.

Several metals were detected in at least one method blank sample, including aluminum, antimony, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, nickel, potassium, sodium, vanadium, and zinc. All of the metals were detected in only a few samples at very low concentrations. Their presence in only a few samples is not indicative of a widespread laboratory contamination problem.

#### Trip Blanks

Sixteen trip blanks were included as part of the CW-2 Lime Pit site sampling program to document that volatile organics were not introduced into the samples during the handling process. The trip blanks were prepared by the FMETL and consisted of sample bottles filled with laboratory deionized water. The trip blanks remained with the sample bottles in coolers and were returned to the laboratory for analysis with the groundwater samples.



Three VOCs were detected in at least one trip blank. Acetone was detected in one trip blank at a concentration below its NJDEP criteria. Chloroform was detected in three of the 16 trip blanks, with no detections exceeding the NJDEP criteria. Methylene chloride was detected in two of the trip blanks, and one of the two detected concentrations exceeded its NJDEP criteria. However, methylene chloride is a common laboratory contaminant. The detections of chloroform and acetone indicate that the sample handling procedures, including the sample glassware, may have introduced contamination into the sampling and analysis process.

#### Field Blanks

One field blank sample was obtained during the sampling activities each day to document the equipment decontamination procedures. A total of 18 field samples (e.g., field blanks) were collected during the CW-2 Lime Pit site sampling events. The field blanks were collected by rinsing deionized water, supplied by the laboratory, over the sampling equipment used for daily activities. The water was collected in clean laboratory-supplied sample jars and submitted for analysis along with the CW-2 Lime Pit site groundwater samples.

The results of the field blank analyses showed that three VOCs were detected in at least one field blank. Chloroform was detected in three of the 18 field blanks, all at concentrations below the NJDEP criteria. Methylene chloride was detected in two field blanks, both at concentrations below its NJDEP criteria. Acetone was detected in one field blank at a concentration below its NJDEP criteria. As noted for the trip blanks, methylene chloride is a common laboratory contaminant, and the detections of chloroform and acetone indicate that the sample handling procedures, including the sample glassware, may have introduced contamination into the sampling and analysis process. In addition, the same VOCs found in the field blanks were also found in the trip blanks, suggesting that the sampling and decontamination procedures did not introduce additional contamination.

Three SVOCs, bis(2-ethylhexyl) phthalate, diethylphthalate and di-n-butylphthalate, were each detected in at least one of the field blank samples. All three analytes were detected at low concentrations that are below their respective NJDEP criteria. In addition, each of these compounds were also identified in the method blanks; therefore, there presence in the field blank samples does not suggest that the sampling and decontamination procedures introduced additional contamination.

As noted for the method blanks, several metals were detected in at least one field blank sample, including aluminum, barium, cadmium, calcium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium and zinc. All of the metals were detected in only a few samples at very low concentrations. Because these metals were also detected in the method blank samples, the sampling and decontamination procedures do not appear to have been the source of sample contamination. However, any subsequent evaluation of the metals analytical



results must account for the possibility of laboratory contamination resulting in false positives for the environmental samples.

#### **Duplicate Samples**

Eighteen field duplicate samples were also collected during the CW-2 Lime Pit site sampling events to verify the consistency of the entire sampling and analytical procedure. The results for all of the duplicate samples were close to those obtained for the original samples. The relative percent differences (RPDs), which are the differences between the two samples being compared divided by their average, indicate the relative levels of precision maintained by the laboratory throughout its analytical procedures. The RPDs for the duplicate samples VOCs was 28.0%. The RPDs for the duplicate samples SVOCs ranged from 3.9% to 70.5%, and their average RPD was 27.0%. These RPDs are well below the established limit of 30% for laboratory duplicate samples and indicate that a high level of precision was maintained throughout the sampling and analytical procedures.

The RPDs for the duplicate samples metals analyses ranged from 0.0% to 195.9%, however, the average RPDs for all of the metals results is 40.1%. This indicates that, overall, good precision was maintained, but that the metals results were much more varied than those for the VOCs or SVOCs. The apparent metals contamination noted in the method and field blanks may have impacted the precision of the metals analysis.

The QC sample results indicate good precision for all of the analyses. However, the presence of metals in the method blanks and field blanks indicate that contamination may have been introduced by the sampling and analysis procedures. Therefore, any subsequent evaluation of the metals analytical results must account for the possibility of laboratory contamination resulting in false positives for the environmental samples.



#### 6.0 CONCLUSIONS

Geologic publications show that the CW-2 Lime Pit site is located within an aquitard (the Navesink-Hornerstown Confining Unit). The low hydraulic conductivity of the aquitard and the thickness of the aquitard at the site conform to the requirements of a Class III-A aquifer, as specified in the NJDEP GWQS (NJAC 7:9-6, January 7, 1993).

The analytical results for the groundwater samples collected at the CW-2 Lime Pit site between April 1997 and January 2001 indicate that no COCs exist within the CW-2 Lime Pit site groundwater. The Class II-A criteria were used for comparison with site-specific data obtained from the various groundwater sampling rounds because the GWQS (NJAC 7:9-6.7e) state that the groundwater quality criteria to be used for Class III-A aquifers are the most stringent criteria associated with vertically or horizontally adjacent groundwaters that are not Class III-A.

Based on the results of the groundwater quality evaluation, no VOCs, SVOCs, pesticides or PCBs were detected above the NJDEP GWQC. There were seven metals (aluminum, arsenic, iron, lead, manganese, mercury and sodium) detected in groundwater samples at concentrations exceeding the NJDEP GWQC. However, none of these metals are considered to be COCs in site groundwater due to the process of elimination via categorization of background metals, reduction in concentration or non-detection of samples by low-flow sampling, and elimination of isolated and marginal detections. Therefore, no COCs exist within the groundwater and NFA is required concerning the groundwater at the CW-2 Lime Pit site.



#### 7.0 REFERENCES

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**TABLES** 

Table 2-1
Well Construction Summary
CW-2 Wastewater Treatment Lime Pit Site
Fort Monmouth, New Jersey

Well ID	NJDEP Permit Number	Northing	Easting	Elevation of Inner Casing Survey Mark	Elevation of Ground Surface	Hole Diameter	Total Depth of Well	Depth to Top of Screen	Screen	Screen Diameter	Screen Material	Date of Construction
Units	1	ft	ft	ft (amsl) <sup>(1)</sup>	ft (amsl) <sup>(1)</sup>	in	ft (bgs) <sup>(2)</sup>	ft (bgs) <sup>(2)</sup>	ft	in		
CW2-MW30	29-32594	532816.326	607651.584	51.71	49.47	12	16.0	6.0	10.0	4.0	10 Slot PVC	12/16/1994
CW2-MW31	29-32595	532840.193	607643.906	51.58	49.67	12	15.0	5.0	10.0	4.0	10 Slot PVC	12/16/1994
CW2-MW32	29-32596	532839.306	607663.447	51.38	49.47	12	15.0	5.0	10.0	4.0	10 Slot PVC	12/16/1994
CW2-MW33	29-32597	532816.056	607672.515	51.09	49.18	12	15.0	5.0	10.0	4.0	10 Slot PVC	12/15/1994

Where a difference in reported data exists between a monitoring well permit and the corresponding boring log, data from the permit was used.

<sup>&</sup>lt;sup>(1)</sup>amsl = above mean sea level

<sup>(2)</sup>bgs = below ground surface

Table 3-1 Groundwater Sampling Summary CW-2 Wastewater Treatment Lime Pit Site Fort Monmouth, New Jersey

		1			1	-		
Round #	Monitoring Well	Lab Sample ID	Date Collected	Date Analysis Started	Sample Type	Matrix	Analytical Parameters	Analysis Method
	MW-30	2472.03	04/24/97	05/02/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	2472.04	04/24/97	05/02/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
1	MW-32	2472.05	04/24/97	05/02/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-33	2472.06	04/24/97	05/02/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Field Blank	2472.02	04/24/97	05/02/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	2472.07	04/24/97	05/02/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30	2788.03	07/10/97	07/15/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	2788.04	07/10/97	07/15/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
2	MW-32	2788.06	07/10/97	07/15/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-33	2788.07	07/10/97	07/15/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	2788.01	07/10/97	07/15/97	GW	Aqueous	VOCs	Method 624
	Field Blank	2788.02	07/10/97	07/15/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30	3088.03	10/22/97	10/28/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	3088.04	10/22/97	10/28/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-32	3088.05	10/22/97	10/29/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
3	MW-33	3088.06	10/22/97	10/29/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	3088.01	10/22/97	10/29/97	GW	Aqueous	VOCs	Method 624
	Field Blank	3088.02	10/22/97	10/29/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	3088.07	10/22/97	10/29/97	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30	3271.03	01/08/98	01/14/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	3271.04	01/08/98	01/14/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
4	MW-32	3271.05	01/08/98	01/14/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
4	MW-33	3271.06	01/08/98	01/14/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	3271.01	01/08/98	01/14/98	GW GW	Aqueous	VOCs VOCs. SVOCs. Pesticides. PCBs and TAL Metals	Method 624
	Field Blank	3271.02	01/08/98	01/14/98	-	Aqueous	,,,,	Method 624, 625, 608, 3120B, 3112B
	Duplicate MW-30	3271.07 3462.03	01/08/98 04/07/98	01/14/98 04/14/98	GW GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B Method 624, 625, 608, 3120B, 3112B
	MW-31	3462.03	04/07/98	04/14/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-32	3462.04	04/07/98	04/14/98	GW	Aqueous Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 606, 3120B, 3112B
5	MW-33	3462.05	04/07/98	04/14/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 606, 3120B, 3112B
J	Trip	3462.01	04/07/98	04/14/98	GW	Aqueous	VOCS, 3 VOCS, 1 esticides, 1 CBS and 1 AL Metals	Method 624, 623, 666, 3126B, 3112B
	Field Blank	3462.02	04/07/98	04/14/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	3462.07	04/07/98	04/14/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30	3723.03	07/14/98	07/18/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	3723.04	07/14/98	07/18/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-32	3723.05	07/14/98	07/18/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
6	MW-32	3723.06	07/14/98	07/18/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	3723.01	07/14/98	07/18/98	GW	Aqueous	VOCS	Method 624
	Field Blank	3273.02	07/14/98	07/18/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	3273.07	07/14/98	07/18/98	GW	Agueous	VOCs. SVOCs. Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30	4083.03	11/24/98	11/30/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	4083.04	11/24/98	11/30/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-32	4083.05	11/24/98	11/30/98	GW	Aqueous	VOCs. SVOCs. Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
7	MW-33	4083.06	11/24/98	11/30/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	4083.01	11/24/98	11/30/98	GW	Aqueous	VOCS	Method 624
	Field Blank	4083.02	11/24/98	11/30/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	4083.07	11/24/98	11/30/98	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30	4271.01	02/11/99	02/16/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	4271.02	02/11/99	02/16/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-32	4271.03	02/11/99	02/16/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
8	MW-33	4271.04	02/11/99	02/16/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	4271.05	02/11/99	02/16/99	GW	Aqueous	VOCS	Method 624
	Field Blank	4271.06	02/11/99	02/16/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B

Table 3-1 Groundwater Sampling Summary CW-2 Wastewater Treatment Lime Pit Site Fort Monmouth, New Jersey

Round #	Sample ID	Monitoring Well ID	Date Collected	Date Analysis Started	Matrix	Sample Type	Analytical Parameters	Analysis Method
	MW-30	4539.03	06/09/99	06/12/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	4539.04	06/09/99	06/12/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
9	MW-32	4539.05	06/09/99	06/12/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
9	MW-33	4539.06	06/09/99	06/12/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	4539.01	06/09/99	06/12/99	GW	Aqueous	VOCS	Method 624
	Field Blank	4539.02	06/09/99	06/12/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	4539.07	06/09/99	06/12/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30	4686.04	08/04/99	08/06/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	4686.05	08/04/99	08/06/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-32	4686.06	08/04/99	08/06/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
10	MW-33	4686.07	08/04/99	08/06/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	4686.01	08/04/99	08/06/99	GW	Aqueous	VOCS	Method 624
	Field Blank	4686.02	08/04/99	08/06/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	4686.03	08/04/99	08/06/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30	4911.04	11/03/99	11/08/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
11	MW-31	4911.05	11/03/99	11/08/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-32	4911.06	11/03/99	11/08/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-33	4911.07	11/03/99	11/08/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	4911.01	11/03/99	11/08/99	GW	Aqueous	VOCS	Method 624
	Field Blank	4911.02	11/03/99	11/08/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	4911.03	11/03/99	11/08/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30	5175.04	02/15/99	02/17/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	5175.05	02/15/99	02/17/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
12	MW-32	5175.06	02/15/99	02/17/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
12	MW-33	5175.07	02/15/99	02/17/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	5175.01	02/15/99	02/17/99	GW	Aqueous	VOCS	Method 624
	Field Blank	5175.02	02/15/99	02/17/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	5175.03	02/15/99	02/17/99	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30 MW-31	5401.04 5401.05	05/08/00	05/10/00 05/10/00	GW GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-32	5401.05	05/08/00 05/08/00	05/10/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B Method 624, 625, 608, 3120B, 3112B
13	MW-33	5401.06	05/08/00	05/10/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 606, 3120B, 3112B
13	Trip	5401.01	05/08/00	05/10/00	GW	Aqueous Aqueous	VOCS, SVOCS, Pesticides, PCBs and TAL Metals VOCS	Method 624, 625, 606, 5120B, 5112B
	Field Blank	5401.01	05/08/00	05/10/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	5401.03	05/08/00	05/10/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30	5591.04	08/02/00	08/07/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	5591.04	08/02/00	08/07/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 606, 3120B, 3112B
	MW-32	5591.06	08/02/00	08/07/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
14	MW-33	5591.07	08/02/00	08/07/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	5591.01	08/02/00	08/07/00	GW	Aqueous	VOCS, 3 VOCS, 1 esticides, 1 CDS and 1AL Metals	Method 624
	Field Blank	5591.02	08/02/00	08/07/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	5591.03	08/02/00	08/07/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-30	5784.04	10/12/00	10/17/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 606, 3120B, 3112B
	MW-31	5784.05	10/12/00	10/17/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-32	5784.06	10/12/00	10/17/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
15	MW-33	5784.07	10/12/00	10/17/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	5784.01	10/12/00	10/17/00	GW	Aqueous	VOCS	Method 624
	Field Blank	5784.02	10/12/00	10/17/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	5784.03	10/12/00	10/17/00	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B

Table 3-1 Groundwater Sampling Summary CW-2 Wastewater Treatment Lime Pit Site Fort Monmouth, New Jersey

Round #	Sample ID	Monitoring Well	Date	Date Analysis	Matrix	Sample	Analytical Parameters	Analysis Method
Round #	Sample ID	ID	Collected	Started	Matrix	Type	Analytical Parameters	Analysis Method
	MW-30	5660.02	08/24/00	08/25/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
	MW-31	5657.02	08/23/00	08/25/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
LF1	MW-32	5657.03	08/23/00	08/25/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
LFI	MW-33	5657.04	08/23/00	08/25/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
	Trip	5660.01	08/23/00	08/25/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
	Field Blank	5660.02	08/23/00	08/25/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
	Duplicate	5660.07	08/23/00	08/25/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
	MW-30	5765.05	10/03/00	10/04/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
	MW-31	5765.02	10/03/00	10/04/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
	MW-32	5765.04	10/03/00	10/04/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
LF2	MW-33	5765.06	10/03/00	10/04/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
	Trip	5765.01	10/03/00	10/04/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
	Field Blank	5765.03	10/03/00	10/04/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
	Duplicate	5765.07	10/03/00	10/04/00	GW	Aqueous	TAL Metals	Method 3120B and 3112B
	MW-30	53/146	01/11/01	01/12/01	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-31	54/147	01/11/01	01/12/01	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	MW-32	55/148	01/11/01	01/12/01	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
16	MW-33	56/149	01/11/01	01/12/01	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Trip	50/143	01/11/01	01/12/01	GW	Aqueous	VOCS	Method 624
	Field Blank	51/144	01/11/01	01/12/01	GW	Aqueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B
	Duplicate	52/145	01/11/01	01/12/01	GW	Agueous	VOCs, SVOCs, Pesticides, PCBs and TAL Metals	Method 624, 625, 608, 3120B, 3112B

GW : Groundwater

VOCs: Volatile Organic Compounds SVOCs: Semi Volatile Organic Compounds

PCBs: Poly Chloronated Biphenols

\*Low Flow Sampling Method was used to collect sample

Table 3-2 Groundwater Elevation Summary CW-2 Wastewater Treatment Lime Pit Site Fort Monmouth, New Jersey

	Round #	#1			#2			#3			#4		
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground- water Elev.									
CW2MW30	51.71	04/24/97	6.45	45.26	07/10/97	7.05	44.66	10/22/97	7.60	44.11	01/08/98	5.20	46.51
CW2MW31	51.58	04/24/97	6.38	45.20	07/10/97	7.00	44.58	10/22/97	7.50	44.08	01/08/98	6.30	45.28
CW2MW32	51.38	04/24/97	6.65	44.73	07/10/97	7.20	44.18	10/22/97	7.70	43.68	01/08/98	4.50	46.88
CW2MW33	51.09	04/24/97	8.95	42.14	07/10/97	9.10	44.99	10/22/97	9.10	41.99	01/08/98	9.00	42.09

- 1) Elevation in feet above mean sea level.
- 2) Depth to water: depth in feet from the inner casing survey mark.
- 3) NA: Not Available

Table 3-2
Groundwater Elevation Summary
CW-2 Wastewater Treatment Lime Pit Site
Fort Monmouth, New Jersey

	#6				#7			#8					
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground- water Elev.									
CW2MW30	51.71	04/07/98	6.56	45.15	07/14/98	6.89	44.82	11/24/98	7.86	43.85	02/11/99	7.24	44.47
CW2MW31	51.58	04/07/98	6.35	45.23	07/14/98	6.71	44.87	11/24/98	7.78	43.80	02/11/99	7.07	44.51
CW2MW32	51.38	04/07/98	6.81	44.57	07/14/98	7.06	44.32	11/24/98	7.94	43.44	02/11/99	7.33	44.05
CW2MW33	51.09	04/07/98	9.50	41.59	07/14/98	9.09	42.00	11/24/98	9.13	41.96	02/11/99	8.13	42.96

- 1) Elevation in feet above mean sea level.
- 2) Depth to water: depth in feet from the inner casing survey mark.
- 3) NA: Not Available

Table 3-2
Groundwater Elevation Summary
CW-2 Wastewater Treatment Lime Pit Site
Fort Monmouth, New Jersey

Round # #9					#10			#11			#12		
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground- water Elev.									
CW2MW30	51.71	06/09/99	7.21	44.50	08/04/99	7.43	44.28	11/03/99	7.02	44.69	02/15/00	7.02	44.69
CW2MW31	51.58	06/09/99	7.15	44.43	08/04/99	7.65	43.93	11/03/99	7.18	44.40	02/15/00	7.03	44.55
CW2MW32	51.38	06/09/99	7.49	43.89	08/04/99	7.85	43.53	11/03/99	6.53	44.85	02/15/00	6.54	44.84
CW2MW33	51.09	06/09/99	9.13	41.96	08/04/99	9.15	41.90	11/03/99	6.14	44.95	02/15/00	9.09	42.00

- 1) Elevation in feet above mean sea level.
- 2) Depth to water: depth in feet from the inner casing survey mark.
- 3) NA: Not Available

Table 3-2 Groundwater Elevation Summary CW-2 Wastewater Treatment Lime Pit Site Fort Monmouth, New Jersey

	Round #	#13			#14			Low-flow #1		#15				
Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground- water Elev.	Date	Depth to Water	Ground- water Elev.	Date	Depth to Water	Ground- water Elev.	Date	Depth to Water	Ground- water Elev.	
CW2MW30	51.71	05/08/00	7.15	44.56	08/02/00	6.86	44.85	08/23/00	7.10	44.61	10/03/00	6.73	44.98	
CW2MW31	51.58	05/08/00	6.96	44.62	08/02/00	6.73	44.85	08/24/00	6.60	44.98	10/03/00	7.65	43.93	
CW2MW32	51.38	05/08/00	7.29	43.25	08/02/00	5.93	45.45	08/24/00	6.95	44.43	10/03/00	7.20	44.18	
CW2MW33	51.09	05/08/00	8.13	42.96	08/02/00	NA	NA	08/24/00	8.70	42.39	10/03/00	8.85	42.24	

#### Notes:

- 1) Elevation in feet above mean sea level.
- 2) Depth to water: depth in feet from the inner casing survey mark.
- 3) NA: Not Available

Table 3-2 Groundwater Elevation Summary CW-2 Wastewater Treatment Lime Pit Site Fort Monmouth, New Jersey

Round # Low-flow #2

#16

Well ID	Elev. of Inner Casing Survey Mark	Date	Depth to Water	Ground- water Elev.	Date	Depth to Water	Ground- water Elev.
CW2MW30	51.71	10/12/00	7.31	44.4	01/11/01	7.32	44.39
CW2MW31	51.58	10/12/00	7.16	44.42	01/11/01	7.16	44.42
CW2MW32	51.38	10/12/00	7.35	44.03	01/11/01	6.98	44.40
CW2MW33	51.09	10/12/00	9.11	41.98	01/11/01	9.14	41.95

#### Notes:

- 1) Elevation in feet above mean sea level.
- 2) Depth to water: depth in feet from the inner casing survey mark.
- 3) NA: Not Available

# Table 4-1 Data for Cross-Section CW-2 Wastewater Treatment Lime Pit Site Fort Monmouth, New Jersey

Well ID	Units	CW2-MW31	CW2-MW32	CW2-MW30	CW2-MW33
Elevation of Top of Casing	ft (amsl)	51.58	51.38	51.71	51.09
Elevation of Ground Surface	ft (amsl)	49.67	49.47	49.47	49.18
Elevation of Top of Screen	ft (amsl)	46.58	46.38	45.71	46.09
Elevation of Groundwater (1//11/01)	ft (amsl)	7.16	6.98	7.32	9.14
Elevation of Top of Unit 2	ft (amsl)	49.17	48.97	48.97	48.68
Elevation of Top of Unit 3	ft (amsl)	39.67	39.47	39.47	41.88
Elevation of Bottom of Well	ft (amsl)	34.67	34.47	33.47	34.18
Distance from Point A on Cross-Section	ft	0.00	9.40	28.80	38.00

### **Explanation of Units**

Surface Materials:

Unit 1 (not in table) = Brown topsoil

Unit 2 = Fill: Brown, green, and gray poorly sorted sand and gravel, trace wood fragments and iron oxide stains.

Tinton Sand:

Unit 3 = greenish gray quartz sand and silt, trace mica and .layers of sub-rounded quartz gravel

### Notes:

All measurements in feet. amsl: above mean sea level. NA: Not Applicable.

MW2-MW30 NJDEP#2932594

Field Sample Location	NJDEP	Site Specific	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30	CW2-MW30 <sup>(2)</sup>	CW2-MW30 <sup>(2)</sup>	CW2-MW30	CW2-MW30
Lab Sample ID	Clean-up	Site Specific	2472.03	2788.03	3088.03	3271.03	3462.03	3723.03	4083.03	4271.01	4539.03	4686.04	4911.04	5175.04	5401.04	5591.04	5660.02	5765.05	5784.04	53/146
Sample Date	Criteria	MBC(1)	04/24/97	07/10/97	10/22/97	01/08/98	04/07/98	07/14/98	11/24/98	02/11/99	06/09/99	08/04/99	11/03/99	02/15/00	05/08/00	08/02/00	08/24/00	10/03/00	10/12/00	01/11/01
Round Number			1	2	3	4	5	6	7	8	9	10	11	12	13	14	LF1	LF2	15	16
Volatiles (ug/L)		•		•	•				•	•	•		•		•					
Acetone	700	N/A	ND	ND	ND	ND	ND	9.84	ND	ND	8.09	ND	ND	ND	ND	ND	NA	NA	ND	ND
Chloroform	6	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Semi-Volatiles (ug/L)																				
bis(2-ethylhexyl)phthalate	30	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Diethylphthalate	5000	N/A	ND	ND	4.74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	2.84
Di-n-butylphthalate	900	N/A	ND	0.98	4.73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Butylbenzylphthalate <sup>(3)</sup>	100	N/A	ND	ND	1.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
PCB/Pesticides (ug/L)																				
			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Metals (ug/L)																				
Aluminum	200	121000	ND	25	175	204	196	65.7	ND	505	521	304	92.7	20.4	105	ND	65.2	39.5	100	38.1
Antimony	20	N/A	ND	ND	ND	ND	ND	3.5	3.99	ND	2.58	ND	ND	ND	ND	4.5	4.12	ND	ND	ND
Arsenic	8	N/A	4	5	5	ND	5.6	ND	11.5	8.3	6.33	9.05	6.06	ND	ND	ND	4.27	ND	3.95	3.48
Barium	2000	699	ND	ND	112.5	30.9	35.5	85.5	250	80.4	111	127	72.7	24.3	61.7	60.2	61.3	51.9	67	62.1
Beryllium	20	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	4	N/A	ND	2	ND	ND	ND	ND	ND	0.721	1.08	2.06	ND	ND	0.787	ND	ND	ND	ND	ND
Calcium	NLE	45400	41000	49030	68240	41070	41000	75000	109000	66600	87400	83300	55300	28700	59800	68100	84600	64600	67000	59600
Chromium	100	N/A	ND	1	2.7	5.2	ND	ND	3.75	5.85	5.43	3.82	2.38	ND	7.19	1.5	ND	2.06	3	1.29
Cobalt	NLE	N/A	0.7	20	ND	ND	ND	ND	ND	0.646	0.675	ND	ND	ND	0.822	ND	ND	ND	ND	ND
Copper	1000	65.6	14	ND	17	21	3.8	4.37	4.28	9.5	51.5	77.7	12.4	7.24	327	72.1	ND	25.1	35.4	ND
Iron	300	431000	9110	12590	34760	2795	3504	10900	27500	11000	8210	44800	6540	1840	7410	2040	2180	834	8150	9730
Lead	10	N/A	ND 4500	ND 5330	5 6640	4 3390	ND 3437	ND 5270	3.15	ND 5290	ND 6800	6.02 7890	ND 4300	ND 2480	<b>46.6</b> 4910	<b>21.8</b> 4670	ND 5950	ND 4540	ND 5060	ND 4690
Magnesium	NLE	62700	4500 <b>69</b>		171.3	3390	39.3	5270 <b>57.8</b>	9310	5290 <b>100</b>	145	7890 <b>212</b>	36.3	2.69	73.1			7.75	39.1	4690 <b>54.6</b>
Manganese	50 2	331 N/A	ND	73 ND	0.2	ND	39.3 ND	57.8 ND	182 2.3	ND ND	ND	ND ND	0.2	0.3	73.1 ND	15.2 ND	19.5 ND	7.75 ND	39.1 ND	0.2
Mercury Nickel	100	187	ND ND	ND ND	1.5	ND 2.8	3.5	0.63	1.59	8.79	1.6	ND 8.53	2.24	0.3	17.6	6.54	ND ND	4.67	1.95	2.38
Potassium	NLE	137000	6900	10420	12240	7240	5793	13800	12500	6930	12700	10800	8930	5440	7670	11300	9500	9160	8770	7410
Selenium	50	N/A	ND	10420	12240 ND	7240 ND	5793 ND	ND	5.27	5.17	ND	ND	4.01	ND	ND	ND	9500 ND	ND	ND	7.2
Silver	20	N/A	10	6	ND ND	ND ND	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
Sodium	50000	21500	14000	33050	19320	5450	13010	14300	17400	32400	25700	47200	15400	15700	24500	7280	14200	9420	20200	22200
Vanadium	NLE	N/A	ND	4	ND	ND	2.3	1.22	1.45	3.76	3.65	3.02	2.19	1.58	3.17	1.63	ND	2.09	2.67	1.25
Zinc	5000	233	6	ND ND	72	76	17.2	21.4	3.33	16.6	ND	56.6	2.24	5.75	429	164	33.8	18.7	38.1	7.46
Notes	0000	200		1 110		,,,	11.4	41.7	0.00	10.0	110	50.0	2.27	0.70	720	107	55.5	10.7	50.1	7.70

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb) except for Wet Chemistry

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and bold

ND: Analyte not detected in sample
NA: Not Apllicable NS: Not Sampled

(1) MBC - Maximum Background Crieteria for native metals

(Weston 1995).

(Dow Flow Sampling Method used to collect sample LF: Low Flow Sampling

			CW2-MW31		NJDEP#29325	95														
Field Sample Location	NJDEP	0'4. 0'5'.	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31	CW2-MW31 <sup>(2)</sup>	CW2-MW31 <sup>(2)</sup>	CW2-MW31	CW2-MW31
Lab Sample ID	Clean-up	Site Specific	2472.04	2788.04	3088.04	3271.04	3462.04	3723.04	4083.04	4271.02	4539.04	4686.05	4911.05	5175.05	5401.05	5591.05	5657.02	5765.02	5784.05	54/147
Sample Date	Criteria	MBC(1)	04/24/97	07/10/97	10/22/97	01/08/98	04/07/98	07/14/98	11/24/98	02/11/99	06/09/99	08/04/99	11/03/99	02/15/00	05/08/00	08/02/00	08/23/00	10/03/00	10/12/00	01/11/01
Round Number		· ·	1	2	3	4	5	6	7	8	9	10	11	12	13	14	LF1	LF2	15	16
Volatiles (ug/L)																				•
Acetone	700	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Chloroform	6	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Semi-Volatiles (ug/L)																				
bis(2-ethylhexyl)phthalate	30	N/A	ND	ND	ND	ND	1.01	ND	NA	NA	ND	ND								
Diethylphthalate	5000	N/A	ND	ND	1.58	ND	NA	NA	ND	2.37										
Di-n-butylphthalate	900	N/A	ND	ND	1.3	3.75	ND	NA	NA	ND	ND									
Butylbenzylphthalate <sup>(3)</sup>	100	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
PCB/Pesticides (ug/L)																				
			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Metals (ug/L)				•		•			•				•					•		
Aluminum	200	121000	ND	ND	93	129	ND	390	ND	ND	27.9	ND	14.9	11.7	ND	14.7	42.7	38.5	20.6	ND
Antimony	20	N/A	ND	ND	ND	ND	ND	3.67	3.03	4.22	ND	ND	ND	ND	ND	5.66	2.74	ND	ND	ND
Arsenic	8	N/A	2	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	2000	699	ND	ND	197.3	204.7	249	295	275	273	348	361	265	264	305	326	245	235	288	252
Beryllium	20	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	4	N/A	ND	ND	ND	ND	ND	ND	ND	1.65	3.5	1.06	1.45	ND	ND	ND	ND	ND	ND	ND
Calcium	NLE	45400	40200	41990	45780	44460	48520	58800	56700	56500	60100	59600	53400	53600	52500	53700	54000	50500	49800	56600
Chromium	100	N/A	ND	ND	11.2	1.4	ND	ND	3.33	3.4	ND	ND	ND	1.08	1.57	1.37	ND	1.11	0.968	ND
Cobalt	NLE	N/A	ND	ND	ND	4	ND	ND	ND	ND										
Copper	1000	65.6	11	ND	11	36	ND	34.5	ND	28.3	15.7	ND	3.69	14	ND	ND	ND	11.8	6.12	ND
Iron	300	431000	59900	11830	52340	68450	115100	83600	72800	71900	104000	77500	64600	111000	86000	68900	69000	65000	62100	78800
Lead	10	N/A	ND	ND	6	25	ND	4.85	2.33	ND	ND	ND	ND	ND	ND	2.44	ND	ND	ND	ND
Magnesium	NLE	62700	5680	5780	5430	5250	5663	6500	6800	6740	7070	7120	6610	6660	6650	6610	6610	6230	6170	7030
Manganese	50	331	277	267	243.5	240	266	311	322	316	326	347	309	301	343	294	300	275	294	294
Mercury	2	N/A	ND	ND	0.6	ND	ND	ND	0.3	ND	ND	ND	ND	0.4	ND	ND	ND	ND	ND	0.2
Nickel	100	187	ND	ND	1.4	49.8	ND	ND	ND	0.595	ND	1.11	4.98	ND	ND	ND	ND	ND	ND	ND
Potassium	NLE	137000	8960	9560	11040	9800	12490	12800	11500	10100	11200	11600	11600	9400	10200	10400	10600	10100	9980	10600
Selenium	50	N/A	ND	1	ND	ND	ND	ND	4.14	3.93	ND	ND	ND	5.28						
Silver	20	N/A	14	7	ND	15	ND	ND	ND	ND										
Sodium	50000	21500	11100	11420	11920	10310	8927	8970	9900	14600	13000	12900	12500	12100	12600	8200	12700	11900	11300	12600
Vanadium	NLE	N/A	ND	ND	ND 170	ND	ND	ND	ND	ND	4.23	2.4	ND	ND	2.08	0.655	ND	1.65	ND	ND
Zinc	5000	233	ND	ND	476	996	29.1	26.2	6.51	6.67	ND	6.86	35.5	10.8	15.2	13	25.2	15	27.3	9.44

#### Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb) except for Wet Chemistry

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and bold

ND: Analyte not detected in sample
NA: Not Apllicable
NS: Not Sampled

(1) MBC - Maximum Background Crieteria for native metals (Weston 1995).

(Discontinuous ampling Method used to collect sample
LF: Low Flow Sampling

			CW2-MW32		NJDEP#29325	96														
Field Sample Location	NJDEP	Cita Cassifia	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32	CW2-MW32 <sup>(2)</sup>	CW2-MW32 <sup>(2)</sup>	CW2-MW32	CW2-MW32
Lab Sample ID	Clean-up	Site Specific	2472.05	2788.06	3088.05	3271.05	3462.05	3723.05	4083.05	4271.03	4539.05	4686.06	4911.06	5175.06	5401.06	5591.06	5657.03	5765.04	5784.06	55/148
Sample Date	Criteria	MBC(1)	04/24/97	07/10/97	10/22/97	01/08/98	04/07/98	07/14/98	11/24/98	02/11/99	06/09/99	08/04/99	11/03/99	02/15/00	05/08/00	08/02/00	08/23/00	10/03/00	10/12/00	01/11/01
Round Number			1	2	3	4	5	6	7	8	9	10	11	12	13	14	LF1	LF2	15	16
Volatiles (ug/L)																				•
Acetone	700	N/A	ND	ND	ND	ND	ND	7.02	ND	ND	NA	NA	ND	ND						
Chloroform	6	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Semi-Volatiles (ug/L)																				
bis(2-ethylhexyl)phthalate	30	N/A	1.54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Diethylphthalate	5000	N/A	ND	ND	1.95	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	2.05
Di-n-butylphthalate	900	N/A	ND	1.63	1.45	2.98	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Butylbenzylphthalate <sup>(3)</sup>	100	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
PCB/Pesticides (ug/L)																				
			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Metals (ug/L)																				
Aluminum	200	121000	ND	2.1	297	163	ND	78.1	166	137	59.5	67.4	162	95.7	51.4	21.8	53.7	35.1	238	63.2
Antimony	20	N/A	ND	ND	ND	ND	ND	2.27	3.33	3.81	ND	ND	ND	ND	ND	5.58	2.36	ND	ND	ND
Arsenic	8	N/A	2	1	ND	ND	ND	2.51	9.32	ND	ND	ND	4.09	ND	ND	4.14	ND	ND	4.55	5.59
Barium	2000	699	ND	ND	166.9	22.8	109	203	230	42.5	202	247	61.7	70	193	51.3	51.3	34.1	166	49.9
Beryllium	20	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	4	N/A	ND	ND	ND	ND	0.6	ND	ND	1.07	2.06	2.25	0.837	ND	0.585	ND	ND	ND	ND	ND
Calcium	NLE	45400	77000	80510	67870	62370	71090	88700	66900	104000	70700	71700	95100	76600	71800	114000	131000	103000	73300	91500
Chromium	100	N/A	ND	ND	11.3	4.9	ND	ND	4.6	3.79	0.572	ND	3.64	1.98	2.63	1.9	ND	1.85	3.05	1.6
Cobalt	NLE	N/A	0.9	ND	ND	ND	0.7	ND	ND	ND	0.857	ND	ND	ND	ND	0.583	ND	ND	ND	ND
Copper	1000	65.6	27	ND	17	38	13.7	31.1	38.3	92.7	28.6	6.23	44.9	25.5	27.9	ND	ND	59.3	31	ND
Iron	300	431000	18400	270	51100	1484	19280	67500	106000	4480	64300	76000	11500	11300	55700	4700	2100	1630	39900	11500
Lead	10	N/A	ND	ND	7	ND	ND	3.99	4.08	ND	ND	ND	ND	ND	ND	2.96	1.73	ND	ND	ND
Magnesium	NLE	62700	4750	9830	7570	6140	7413	8570	7650	10100	7880	8270	9380	8120	8300	10600	12400	9530	7890	9330
Manganese	50	331	125	181	260.7	3.7	287	287	342	7.02	310	369	27	53.9	382	8.74	3.61	4.59	326	23
Mercury	2	N/A	ND	ND	ND	ND	ND	ND	0.3	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND
Nickel	100	187	ND	ND	2.5	3.4	6.9	2.03	1.22	5.03	ND	1.7	4.57	2.21	3	2.71	ND	4.42	2.71	1.26
Potassium	NLE	137000	6740	8340	13540	3590	10210	10200	12100	3670	10700	11900	4990	6220	9220	5340	5600	4160	8360	3000
Selenium	50	N/A	ND	1	ND	ND	ND	ND	4.04	5.27	ND	ND	5.66	3.74	ND	ND	ND	ND	ND	5.34
Silver	20	N/A	11	7	ND	ND 15000	ND	ND	ND	ND	ND	ND	ND	ND	ND 15000	ND	ND	ND	ND	ND
Sodium	50000	21500	22250	22950	17300	15990	10860	10700	11200	35700	15500	14800	21000	27500	15600	17900	25600	18100	14800	20000
Vanadium	NLE	N/A	ND 101	ND 10	ND 404	ND 04	ND 057	ND 445	11	1.95	5.48	2.84	4.91	3.69	6.8	3.25	ND	3.05	6.87	3.87
Zinc	5000	233	121	16	461	84	257	145	127	59.4	18.7	24.8	41.1	29.2	79.9	29.6	56.8	72.8	119	36.5

Notes

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb) except for Wet Chemistry

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and bold

ND: Analyte not detected in sample
NA: Not Apllicable
NS: Not Sampled

(1) MBC - Maximum Background Crieteria for native metals (Weston 1995).

(Dow Flow Sampling Method used to collect sample LF: Low Flow Sampling

NJDEP#2932597 CW2-MW33

Field Sample Location	NJDEP	011.0	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33	CW2-MW33 <sup>(2)</sup>	CW2-MW33 <sup>(2)</sup>	CW2-MW33	CW2-MW33
Lab Sample ID	Clean-up	Site Specific	2472.06	2788.05	3088.06	3271.06	3462.06	3723.06	4083.06	4271.04	4539.06	4686.07	4911.07	5175.07	5401.07	5591.07	5657.04	5765.06	5784.07	56/149
Sample Date	Criteria	MBC(1)	04/24/97	07/10/97	10/22/97	01/08/98	04/07/98	07/14/98	11/24/98	02/11/99	06/09/99	08/04/99	11/03/99	02/15/00	05/08/00	08/02/00	08/23/00	10/03/00	10/12/00	01/11/01
Round Number			1	2	3	4	5	6	7	8	9	10	11	12	13	14	LF1	LF2	15	16
Volatiles (ug/L)																				
Acetone	700	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.26	ND	ND	NA	NA	ND	ND
Chloroform	6	N/A	ND	ND	ND	ND	1.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Semi-Volatiles (ug/L)																				
bis(2-ethylhexyl)phthalate	30	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Diethylphthalate	5000	N/A	ND	ND	4.65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	1.71
Di-n-butylphthalate	900	N/A	ND	1.98	4.67	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Butylbenzylphthalate <sup>(3)</sup>	100	N/A	ND	ND	1.17	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
PCB/Pesticides (ug/L)																				
			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	ND	ND
Metals (ug/L)																				
Aluminum	200	121000	ND	595.1	94	217	119	411	125	67.8	336	69.8	52.8	96.2	29.3	38.2	623	31.9	109	37.1
Antimony	20	N/A	ND	ND	ND	ND	ND	ND	2.82	2.49	ND	ND	ND	ND	ND	4.04	ND	ND	ND	ND
Arsenic	8	N/A	3	ND	ND	6	3.4	ND	ND	ND	5.82	3.25	ND	2.67	ND	ND	ND	ND	3.69	3.02
Barium	2000	699	90	670	126.5	310.9	123	144	119	72.9	212	158	46.7	159	121	83.6	189	175	144	204
Beryllium	20	N/A	ND	0.08	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	4	N/A	ND	ND	ND	ND	ND	ND	ND	1.04	2.06	0.561	1.38	ND	ND	ND	ND	ND	ND	ND
Calcium	NLE	45400	67200	75930	39300	72300	31310	27500	32000	32100	42100	35100	18100	45500	36100	23900	60800	51600	37300	51900
Chromium	100	N/A	ND	ND	1.1	3	ND	ND	4.87	2.4	2.07	0.7	1.3	1.45	0.845	ND	ND	2.63	1.17	5.9
Cobalt	NLE	N/A	0.7	ND	ND	ND	ND	ND	ND	ND	0.768	ND	ND	ND	0.77	ND	ND	ND	ND	ND
Copper	1000	65.6	9	8	12	10	ND	19.5	3.71	17.3	6.04	ND	3.98	ND	ND	ND	ND	28.9	165	182
Iron	300	431000	88600	10260	26770	104700	19780	35900	26400	11300	69600	35900	19500	54400	36500	13400	59800	45500	38800	106000
Lead	10	N/A	ND	ND	4	4	ND	4.19	ND	ND	ND	ND	ND	3.77	ND	1.5	2.44	ND	29.7	41.2
Magnesium	NLE	62700	3110	8250	5370	7660	5651	3790	5360	6010	4990	5360	3260	5340	5870	2660	8740	5490	4720	5890
Manganese	50	331	424	519	151.8	341.7	110	130	87.8	81.2	214	149	47.2	201	242	81.4	281	257	188	251
Mercury	2	N/A	ND	ND	0.2	ND	ND	ND	0.4	0.13	ND	ND.	ND	ND	ND	ND	ND	ND	ND.	0.2
Nickel	100	187	ND	ND	1.4	3.2	2.2	1.86	1.61	3.15	ND	1.27	2.75	1.8	0.949	ND	ND	2.69	4.79	7.5
Potassium	NLE	137000	11000	12400	7680	13430	6223	8300	5250	4770	8140	7690	3490	8500	7120	6080	10200	10200	9320	9650 ND
Selenium	50	N/A	ND 40	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	20	N/A	16	8	ND 40000	ND 44700	ND 44700	ND 45000	ND 47000	ND	ND 40000	ND 40400	ND	ND	ND	ND 5000	ND	ND	ND	ND
Sodium	50000	21500	12000	13630	16360	11780	14730	15600	17800	37000	19000	16100	8950	14800	19900	5230	84100	9890	19800	12800
Vanadium	NLE	N/A	ND	ND	ND 49	ND	ND	2.6	1.4	ND	4.91	ND	ND	ND	1.78	0.821	ND 00.5	1.34	1.4	0.866
Zinc	5000	233	ND	24	49	69	ND	55	13.5	11.1	ND	7.3	20.8	11.5	6.37	16.4	29.5	36.8	257	346

All concentrations in micrograms per liter (ug/L), equivalent to parts per billion (ppb) except for Wet Chemistry

NJDEP Criteria: Higher of Practical Quantitation Limits (PQLs) & Groundwater Quality Criteria (GWQC) NJAC 7:9-6

Exceedences of NJDEP GWQS are shaded and bold

ND: Analyte not detected in sample
NA: Not Apllicable
NS: Not Sampled

(1) MBC - Maximum Background Crieteria for native metals (Weston 1995).

(Carrow Flow Sampling Method used to collect sample
LF: Low Flow Sampling

# Table 5-2 Determination of Contaminant of Concern CW-2 Wastewater Treatment Lime Pit Site Fort Monmouth, New Jersey

Analyte	NJDEP Cleanup Criteria <sup>(1)</sup>	Site Specific Groundwater MBC <sup>(2)</sup>	Maximum Result	No. of NJDEP Criteria Exceedences	No. of Site Maximum Background Exceedences	Comments
Vo	olatiles					
Acetone	700	N/A	9.84	0	N/A	No exceedance of NJDEP GWQC
Chloroform	6	N/A	1.07	0	N/A	No exceedance of NJDEP GWQC
Semi	-Volatiles					
bis(2-ethylhexyl)phthalate	30	N/A	1.54	0	N/A	No exceedance of NJDEP GWQC
Diethylphthalate	5000	N/A	4.74	0	N/A	No exceedance of NJDEP GWQC
Di-n-butylphthalate	900	N/A	4.67	0	N/A	No exceedance of NJDEP GWQC
Butylbenzylphthalate	100	N/A	1.17	0	N/A	No exceedance of NJDEP GWQC
Pesticides/PC	Bs: None Det	tected				
N	<b>1etals</b>					
Aluminum	200	121000	623	12	0	Not a Contaminant of Concern. Background metal.
Antimony	20	N/A	5.66	0	N/A	No exceedance of NJDEP GWQC
Arsenic	8	N/A	11.5	4	N/A	Not a Contaminant of Concern. Low flow sampling has no exceedances.
Barium	2000	699	670	0	0	No exceedance of NJDEP GWQC
Beryllium	20	N/A	0.08	0	N/A	No exceedance of NJDEP GWQC
Cadmium	4	N/A	2.25	0	N/A	No exceedance of NJDEP GWQC
Calcium	NLE	45400	131000	0	54	No exceedance of NJDEP GWQC
Chromium	100	N/A	11.3	0	N/A	No exceedance of NJDEP GWQC
Cobalt	NLE	N/A	20	N/A	N/A	No limits established.
Copper	1000	65.6	327	0	6	No exceedance of NJDEP GWQC
Iron	300	431000	115100	71	0	Not a Contaminant of Concern. Background metal.
Lead	10	N/A	46.6	5	N/A	Not a Contaminant of Concern. Low flow sampling has no exceedances.
Magnesium	NLE	62700	12400	N/A	0	No limits established.
Manganese	50	331	519	57	8	Not a Contaminant of Concern. Background metal.
Mercury	2	N/A	2.3	1	N/A	Detected at MW30 on 11/24/98. Isolated detection. Low flow sampling presents no exceedances.
Nickel	100	187	49.8	0	0	No exceedance of NJDEP GWQC
Potassium	NLE	137000	13800	N/A	0	No limits established.
Selenium	50	N/A	7.2	0	N/A	No exceedance of NJDEP GWQC
Silver	20	N/A	16	0	N/A	No exceedance of NJDEP GWQC
Sodium	50000	21500	84100	1	13	Not a Contaminant of Concern due to proximity of seawater. Background metal.
Thallium	10	N/A	ND	0	N/A	No exceedance of NJDEP GWQC
Vanadium	NLE	N/A	11	N/A	N/A	No limits established.
Zinc	5000	233	996	0	7	No exceedance of NJDEP GWQC

#### Notes

 $All\ concentrations\ in\ micrograms\ per\ liter\ (ug/L),\ equivalent\ to\ parts\ per\ billion\ (ppb).$ 

NJDEP GWQC: New Jersey Department of Environmental Protection Groundwater Quality Criteria.

N/A = Not Applicable

Exceeds NJDEP GWQC =

ND: Analyte not detected in sample

NLE: No limit established for this analyte

<sup>(1)</sup> Higher of Practical Quantitation Limits (PQLs) and Groundwater Quality Criteria (GWQC) per N.J.A.C. 7:9-6

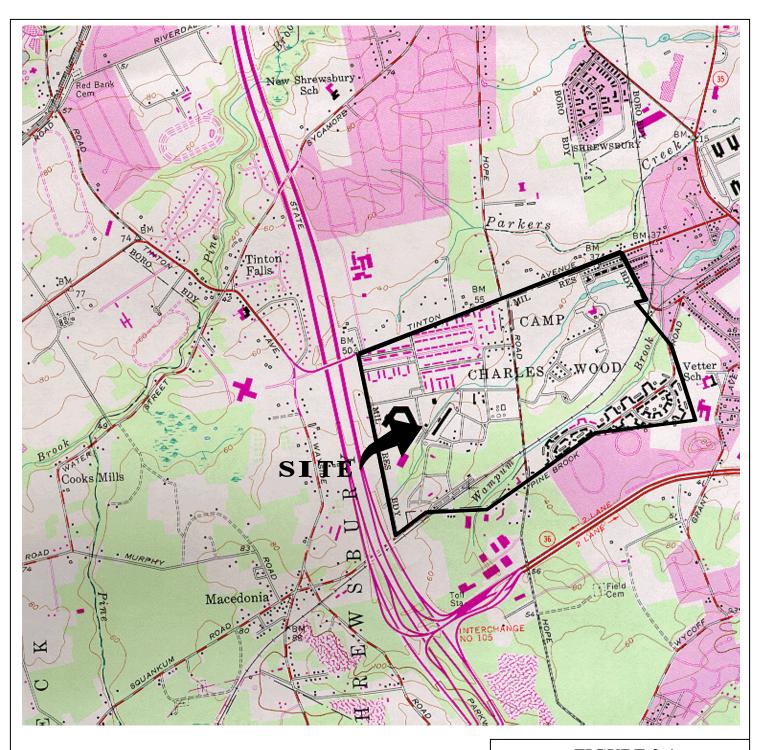
<sup>(2)</sup> Fort Monmouth Summary of Site-specific Groundwater Maximum Background Concentrations (MBC);

MBCs are shown for background (native) metals only.

<sup>(3)</sup>Interim Criteria used as NJDEP criteria



# **FIGURES**





# LONG BRANCH, N. J. 40073-08-TF-024

1954 PHOTOREVISED 1981 DMA 6164 I SE-SERIES V822



## Mapped, edited and published by the Geological Survey

# FIGURE 2-1

Site Location Map CW-2 Lime Pit Site Fort Monmouth, New Jersey



Scale: 1" = 2000'

March 7, 2005





# **Geologic Map of New Jersey**

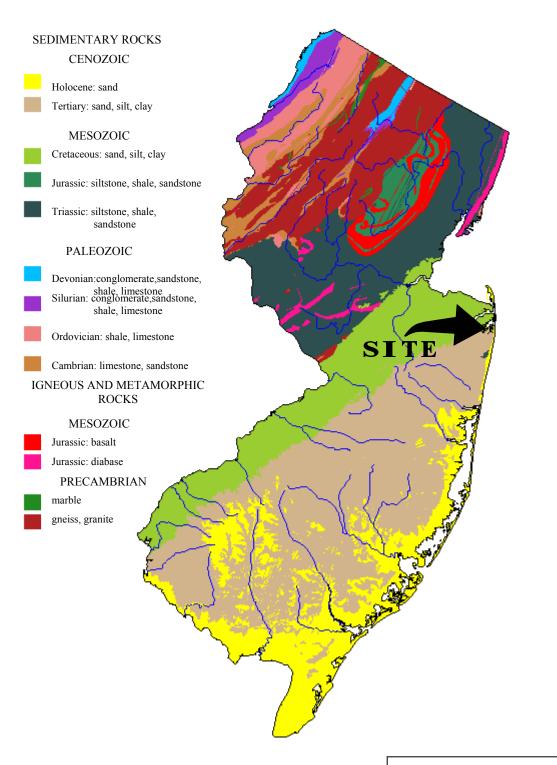
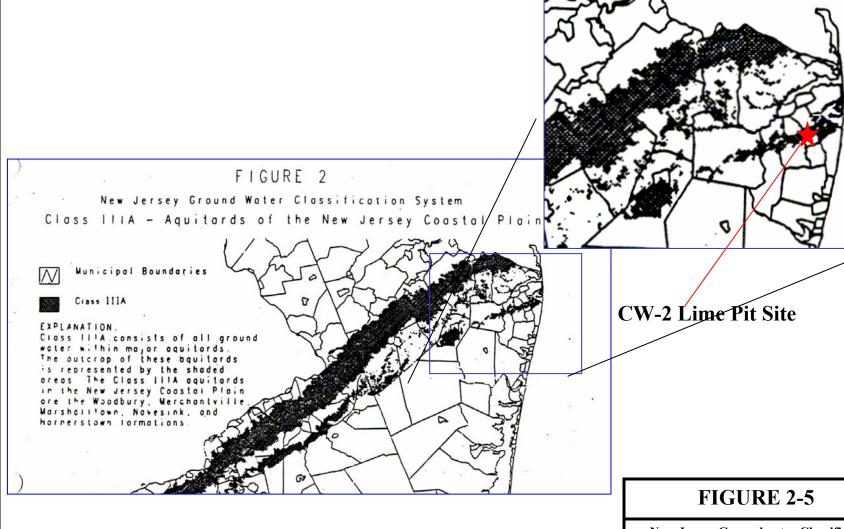


Figure 2-4
Geological Map of New Jersey
CW-2 Lime Pit Site
Fort Monmouth, New Jersey

Source: New Jersey Geologic Survey, 1994, Geologic Map of New Jersey.



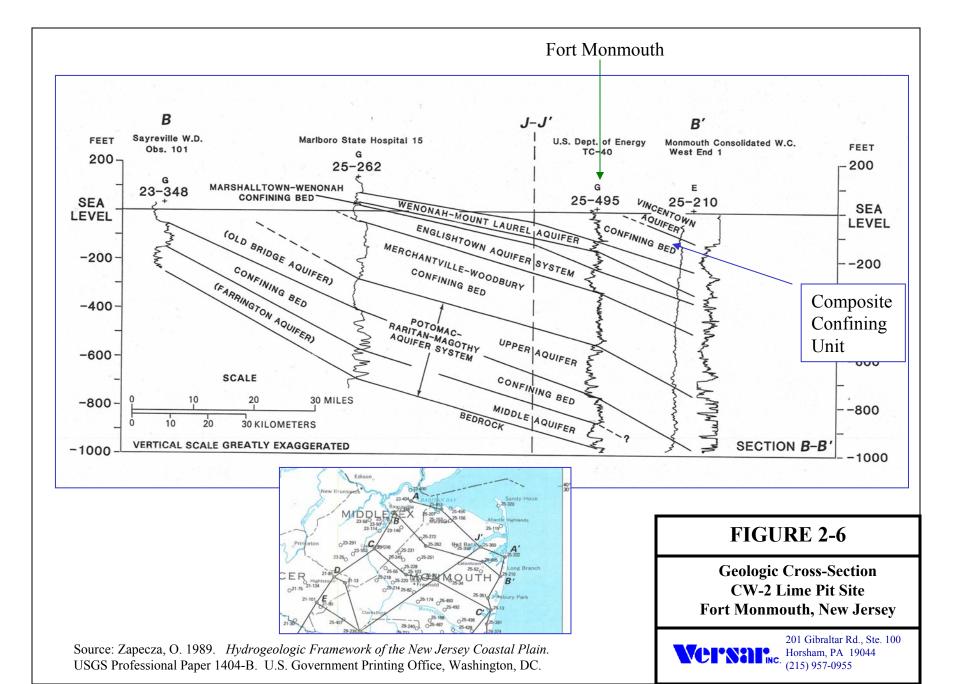


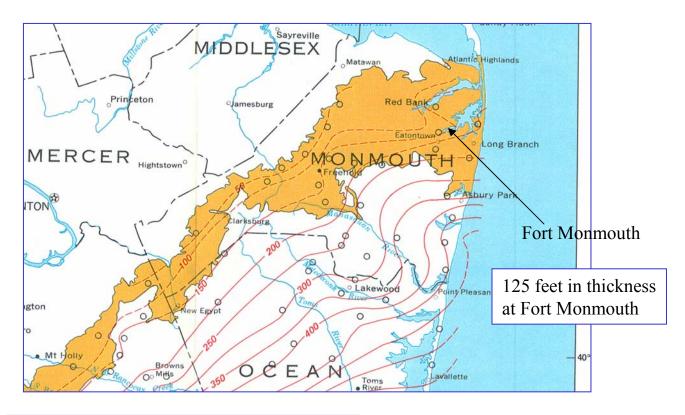
Source: New Jersey Groundwater Quality Standards, NJAC 7:9-6

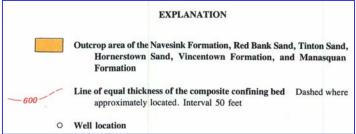
**New Jersey Groundwater Classification** Class IIIA **CW-2** Lime Pit Site Fort Monmouth, New Jersev



201 Gibraltar Rd., Ste. 100







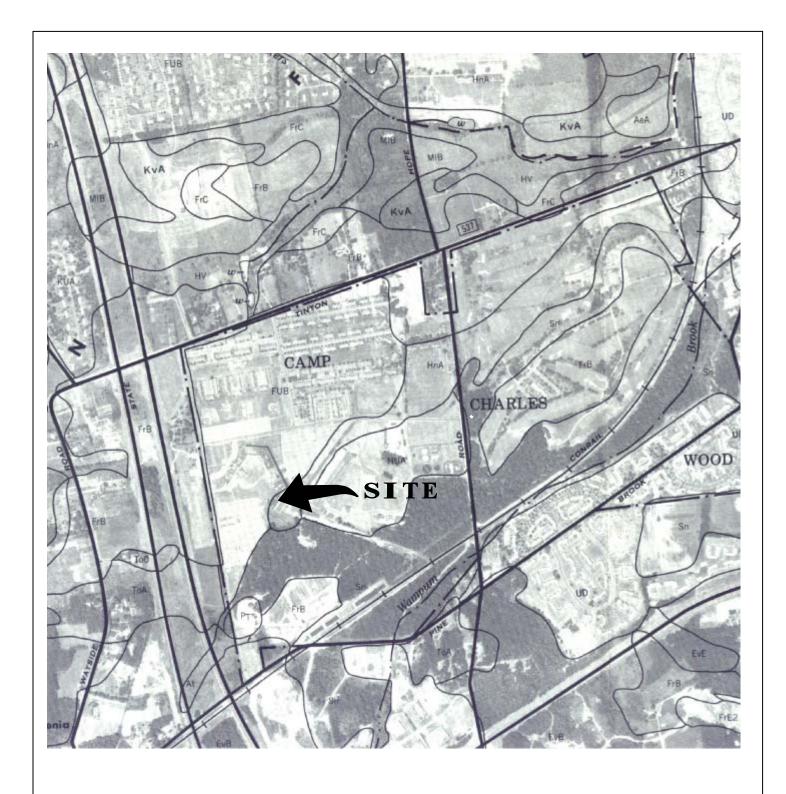
Source: Zapecza, O. 1989. Hydrogeologic Framework of the New Jersey Coastal Plain. USGS Professional Paper 1404-B. U.S. Government Printing Office, Washington, DC.

## FIGURE 2-7

**Outcrop and Thickness of Composite Confining Unit CW-2 Lime Pit Site** Fort Monmouth, New Jersey



201 Gibraltar Rd., Ste. 100

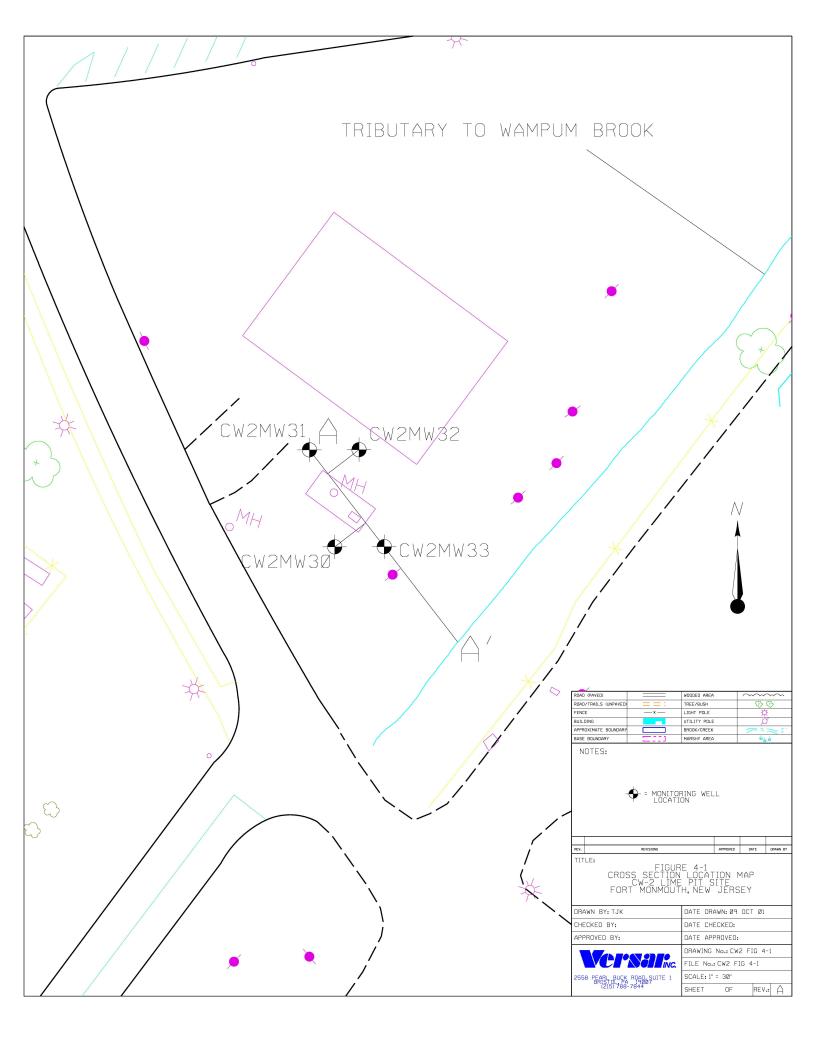


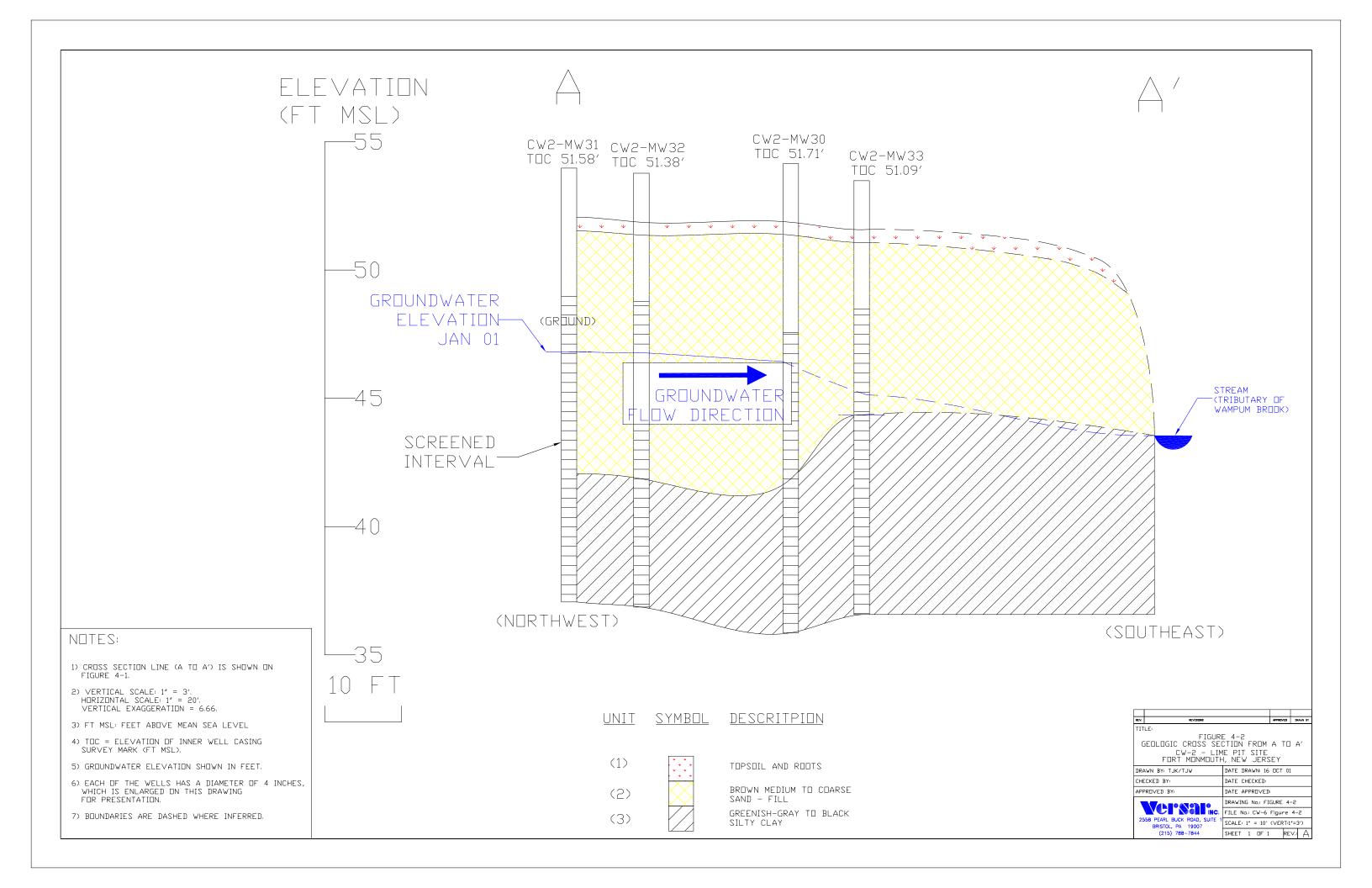


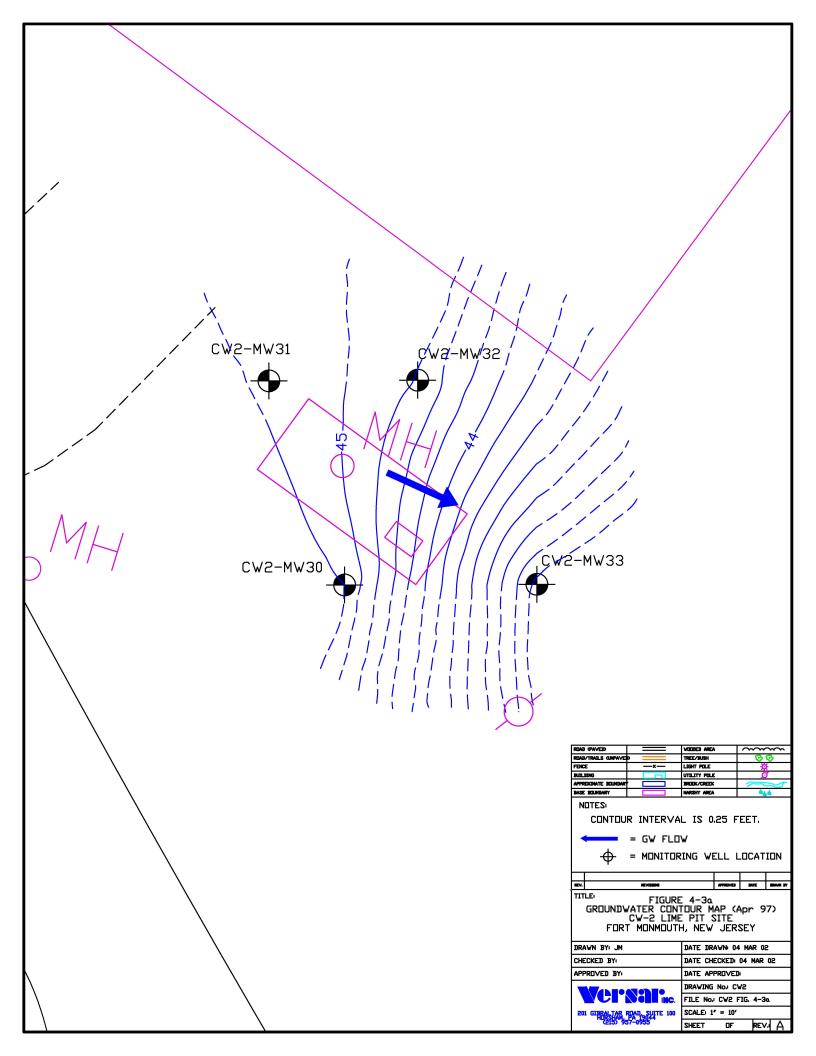
US Department of Agriculture Soil Conservation Service Soil Survey of Monmouth County, NJ April 1989 Figure 2-8
Soil Map of Monmouth County
CW-2 Lime Pit Site
Fort Monmouth, New Jersey

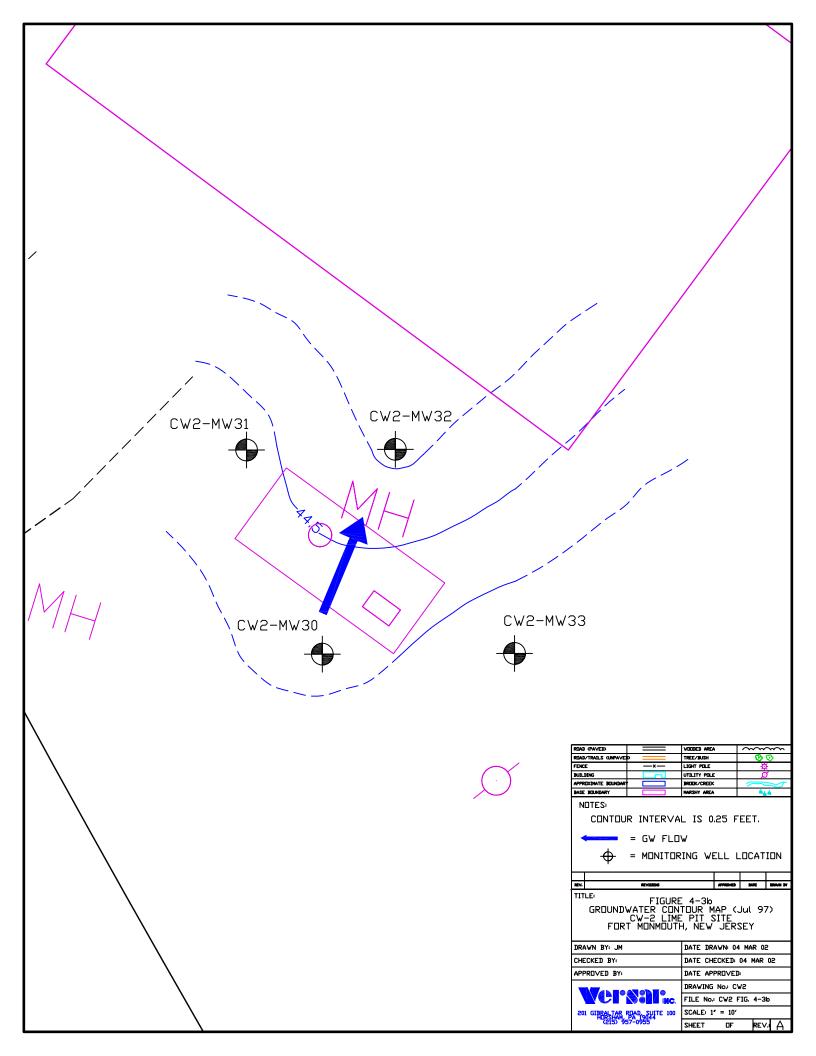


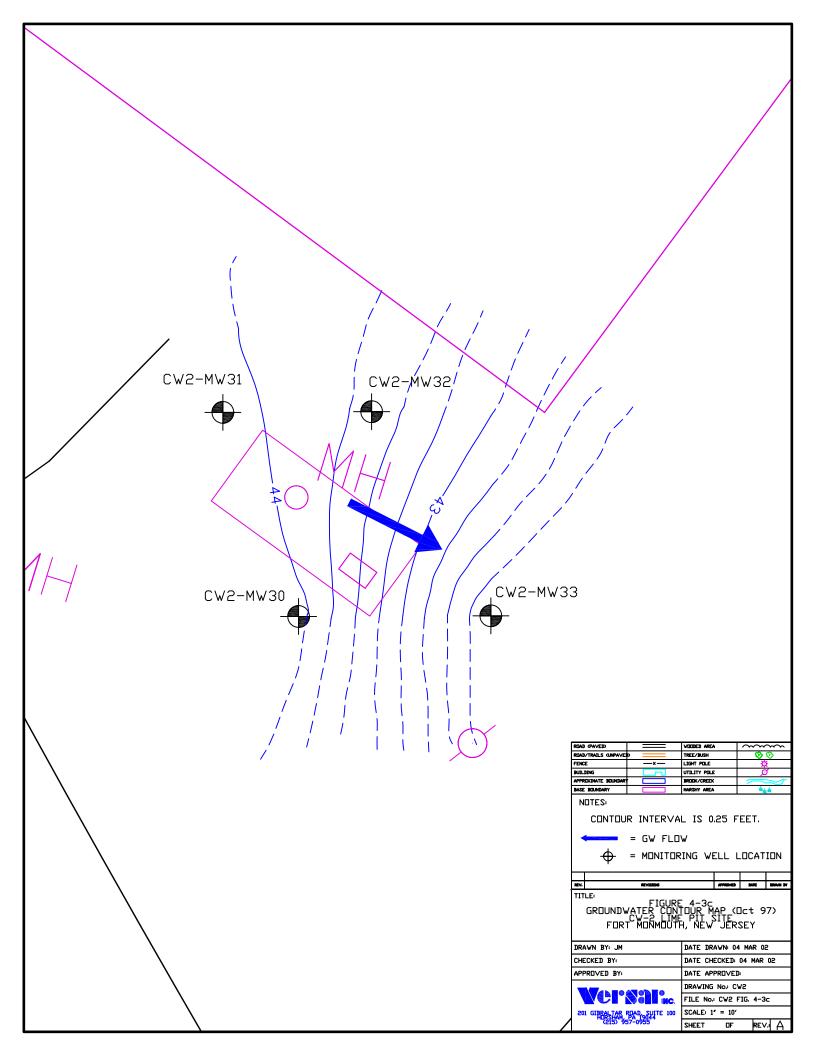
201 Gibraltar Road, Suite 100 Horsham, PA 19044 (215) 957-0955

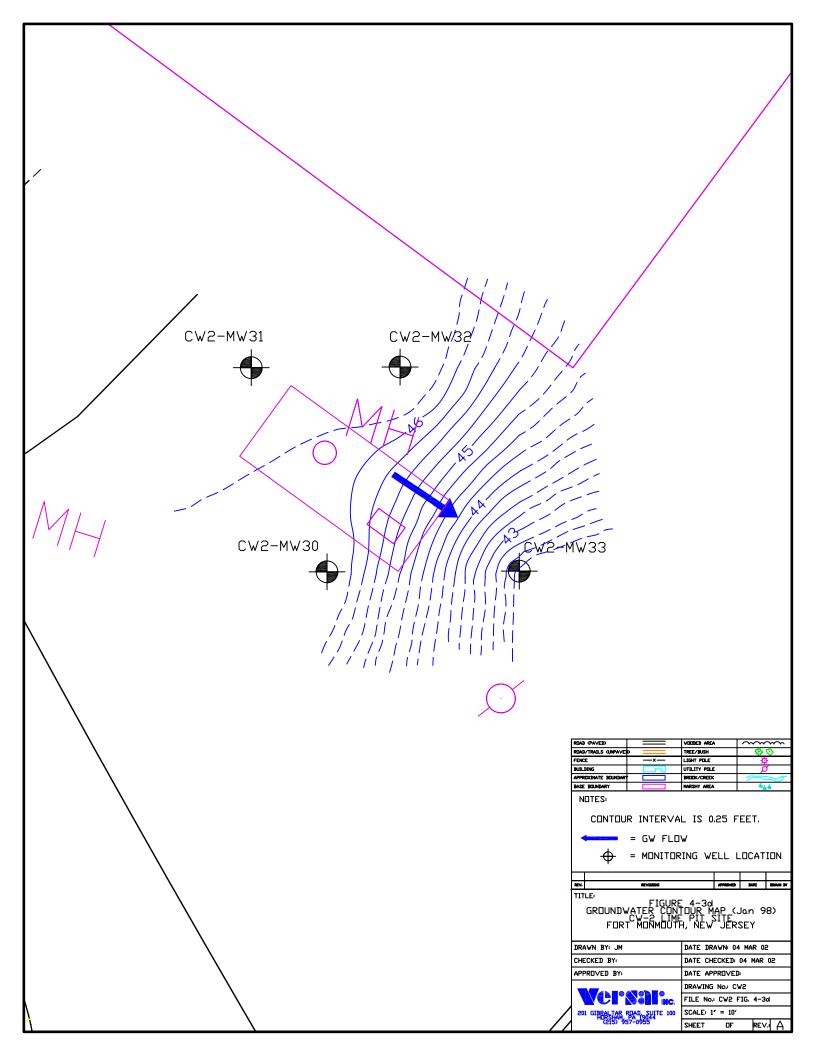


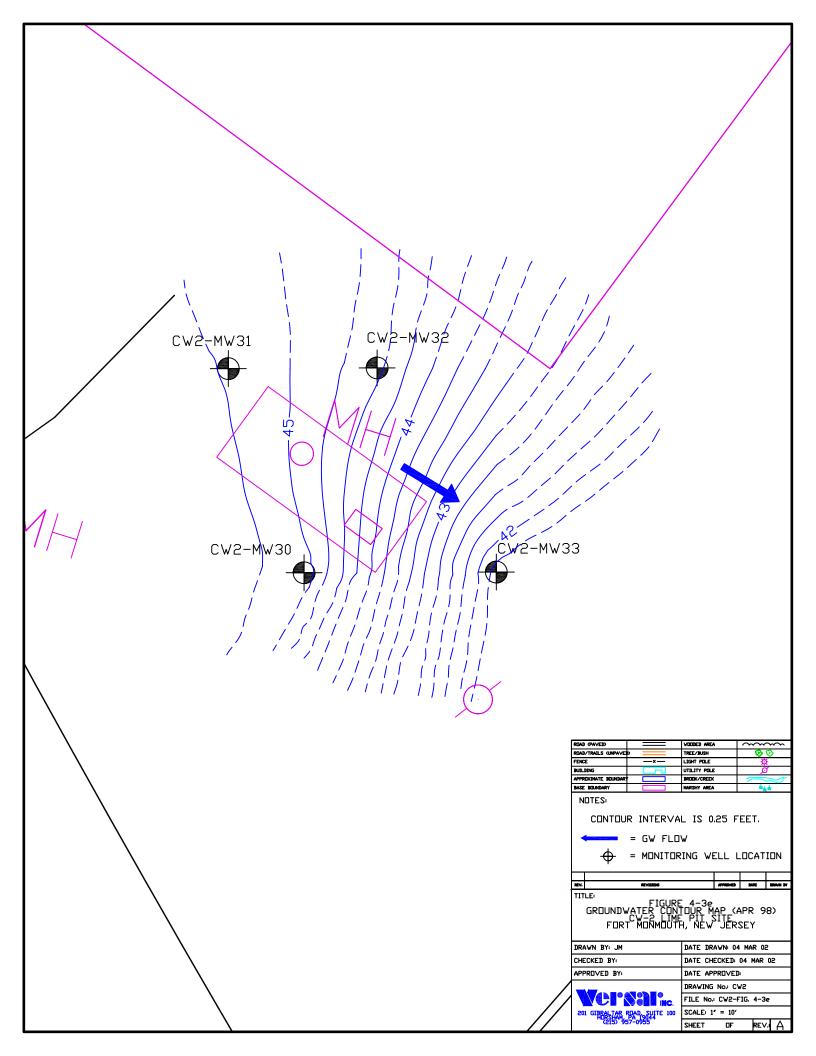


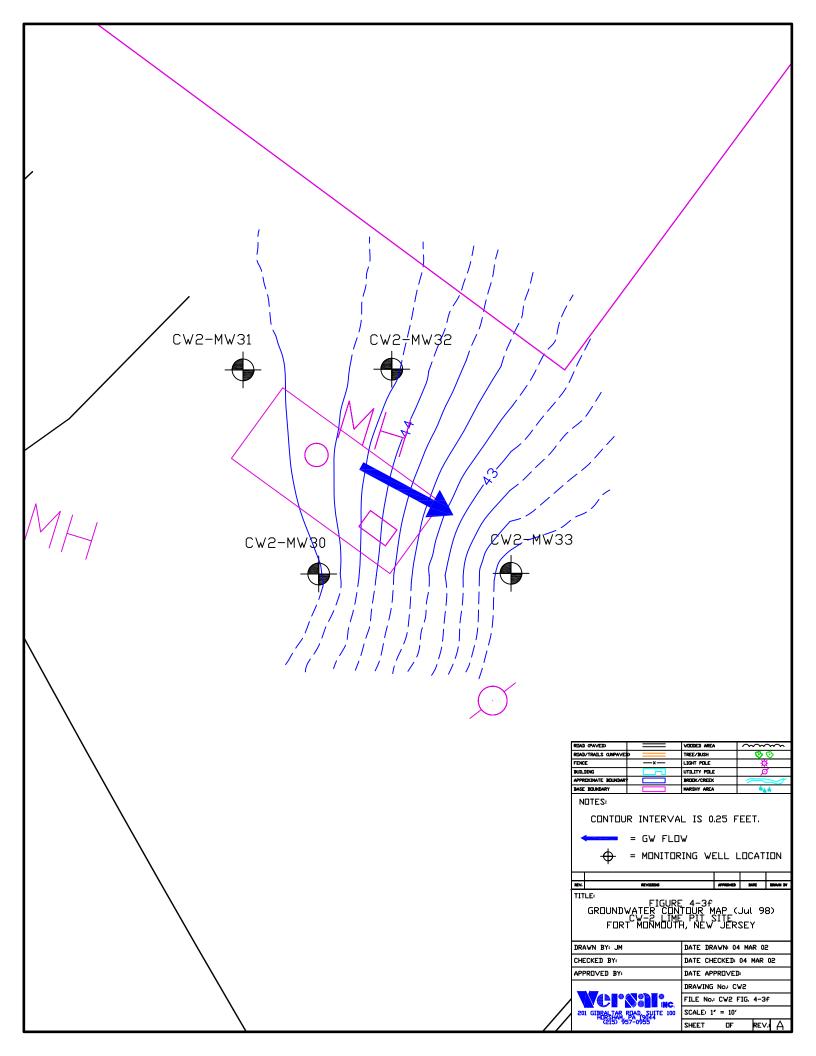


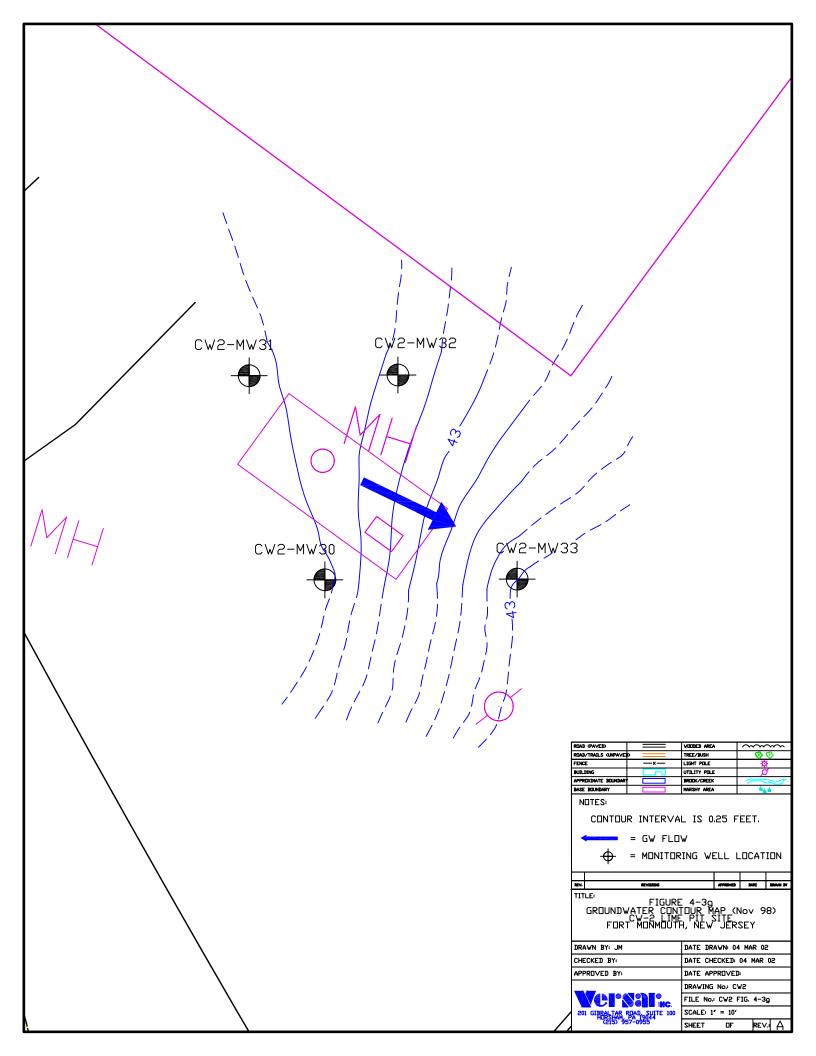


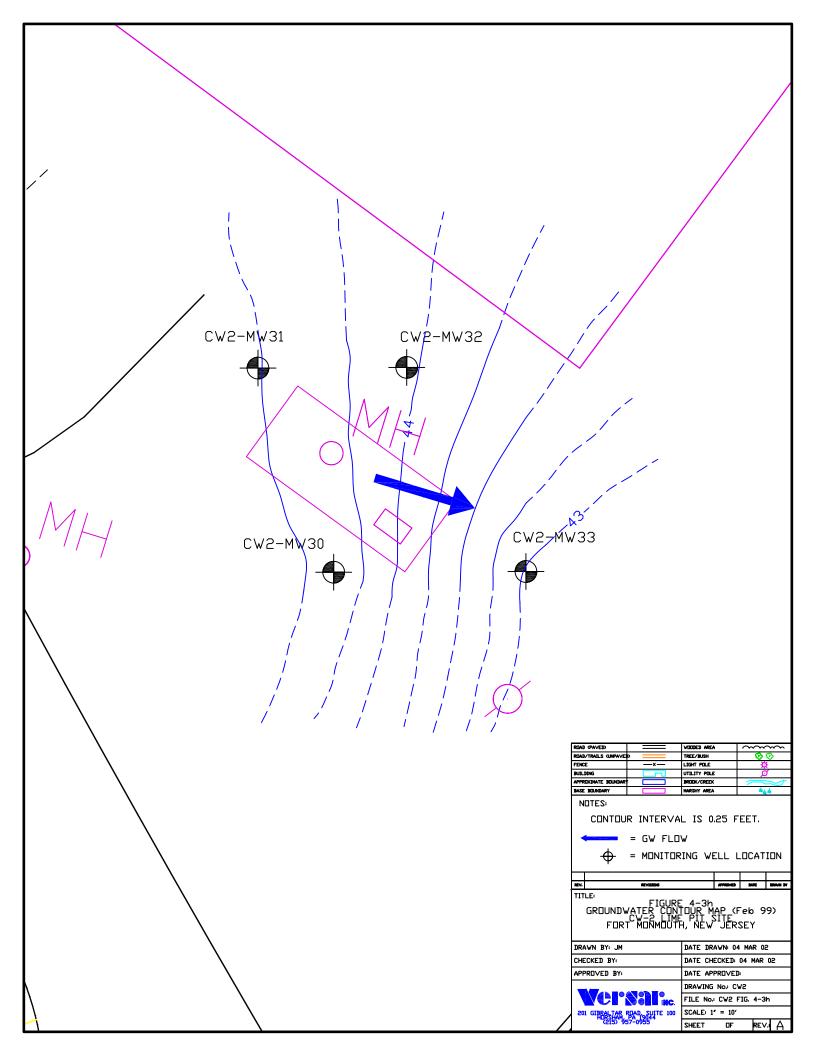


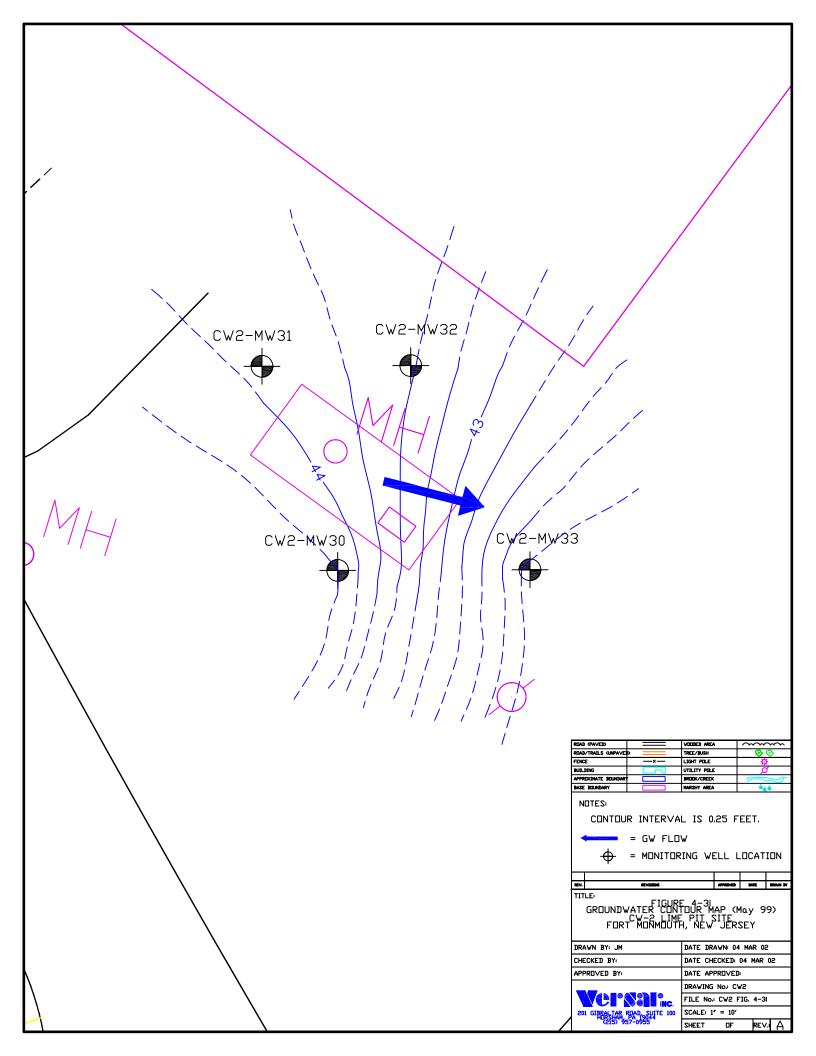


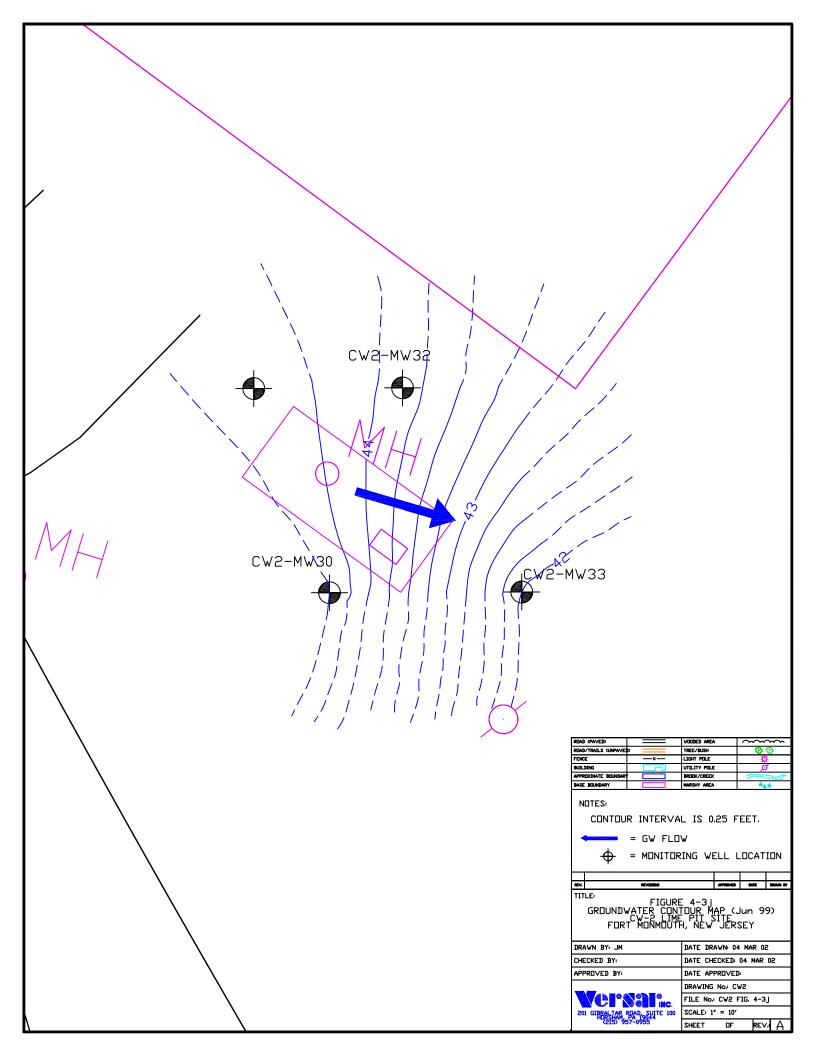


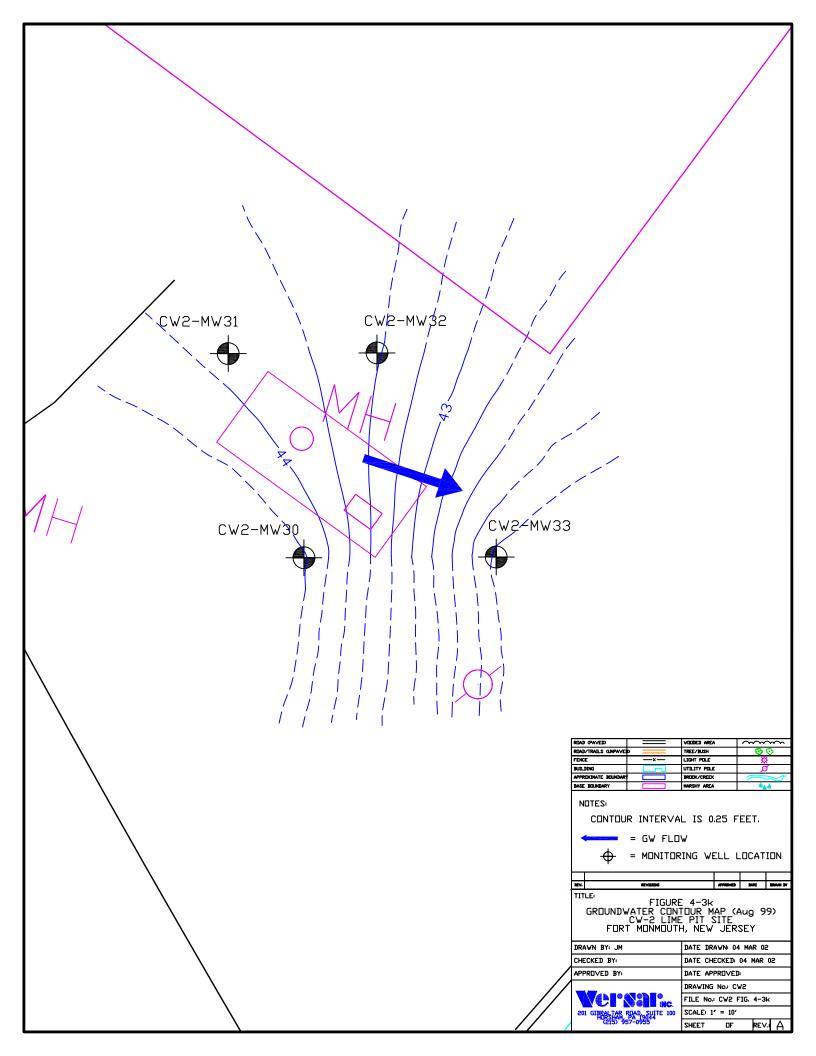


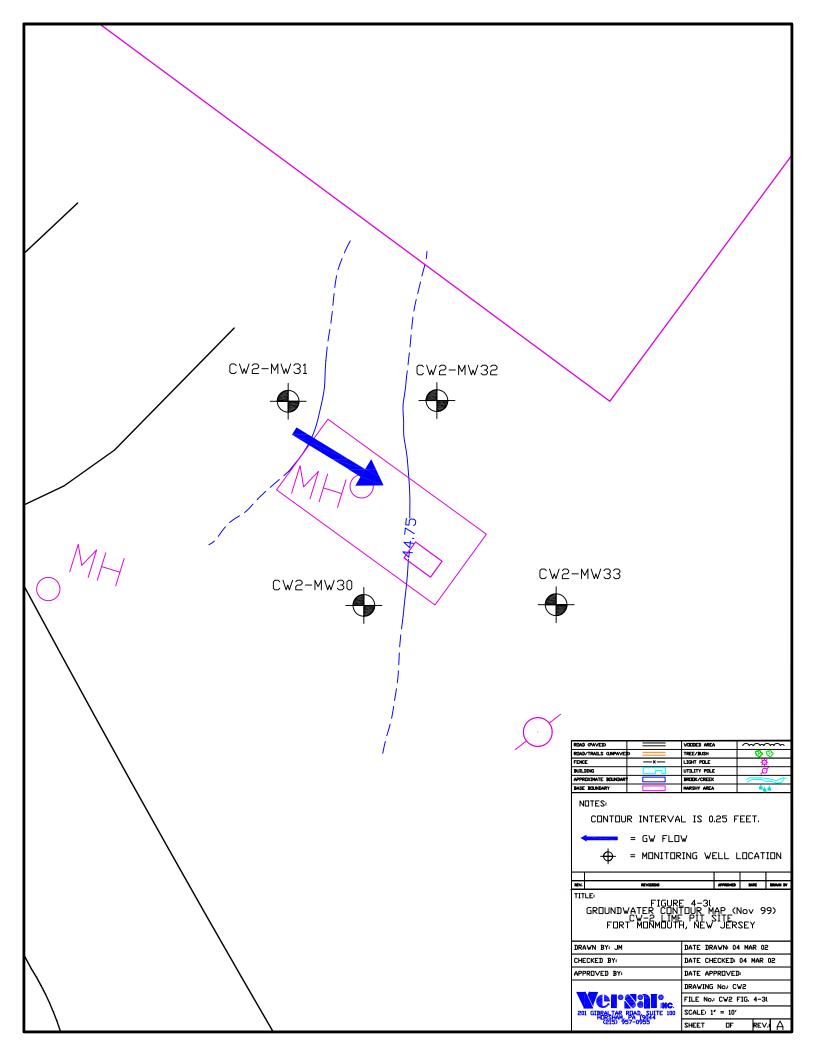


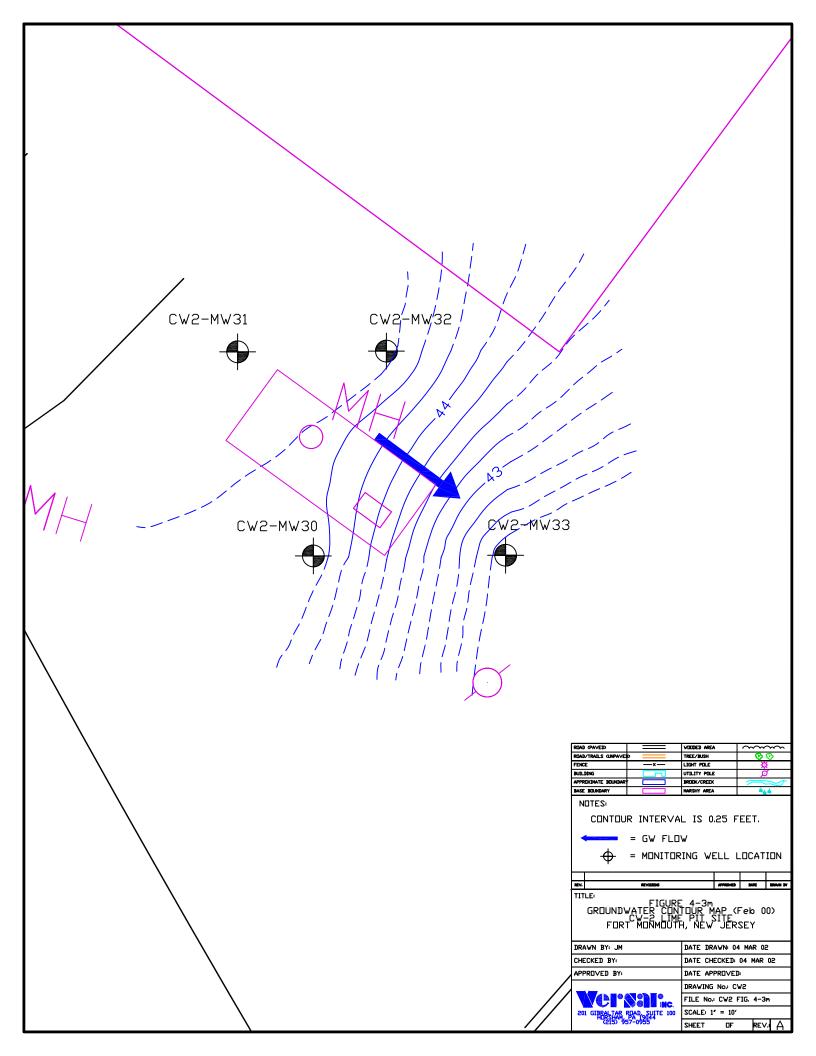


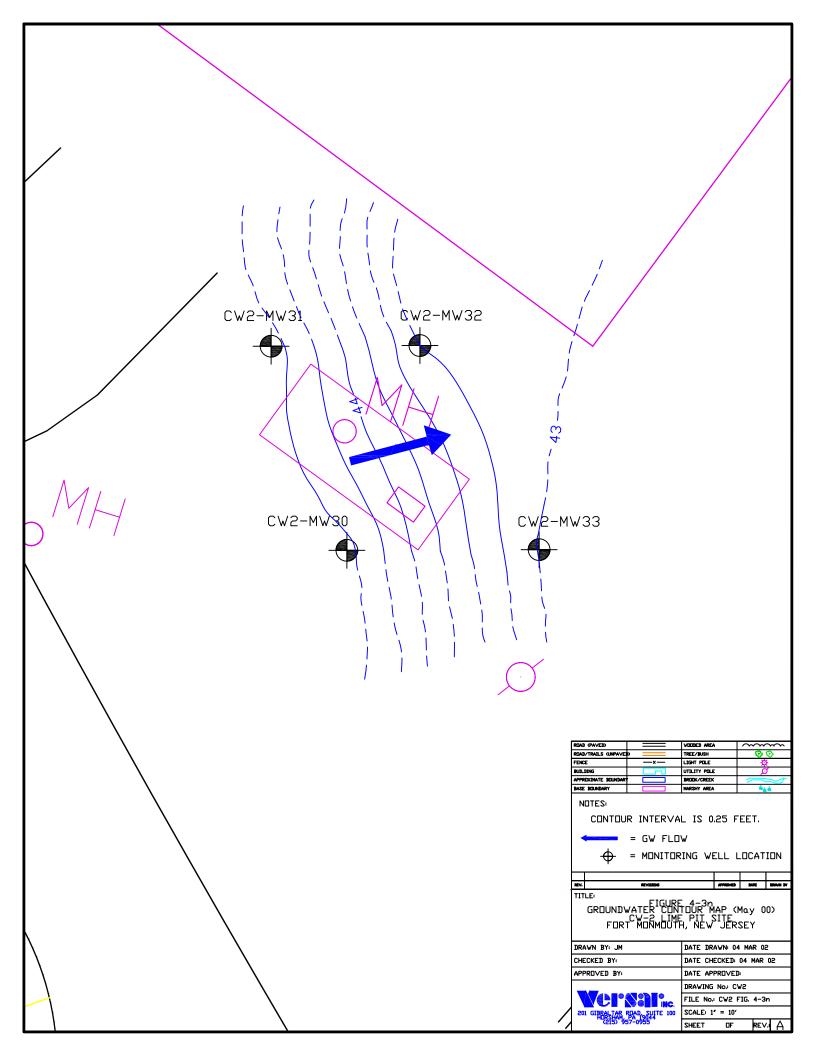


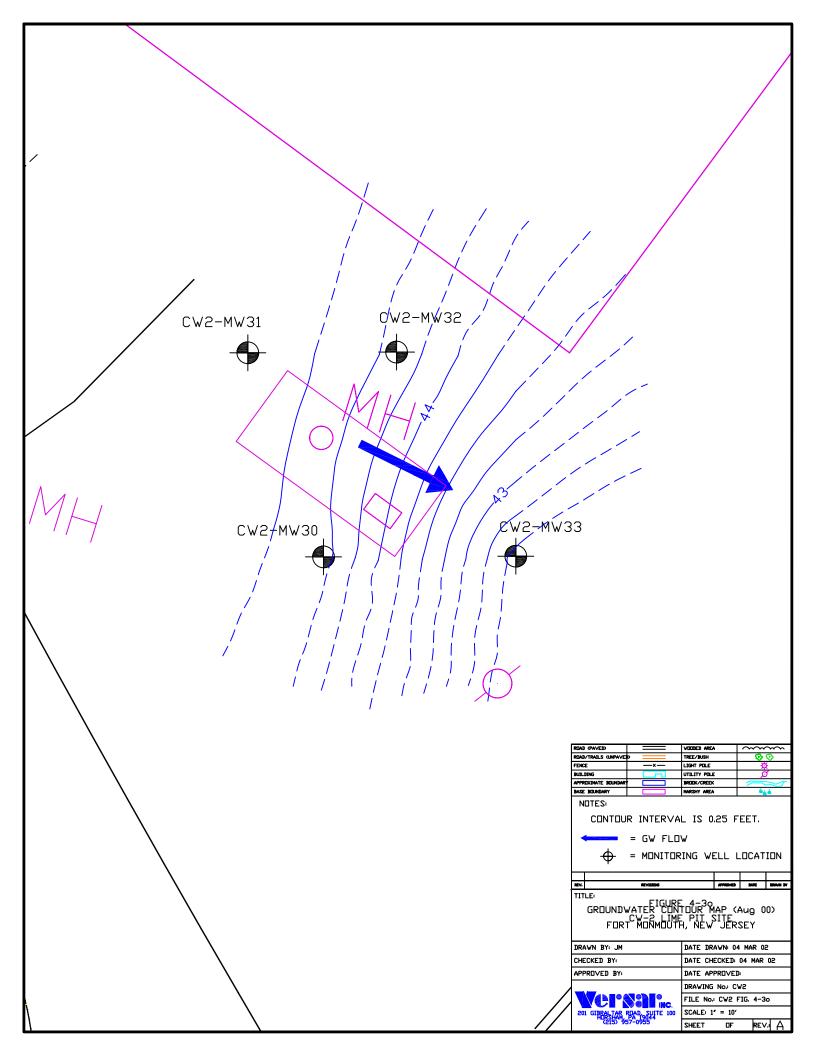


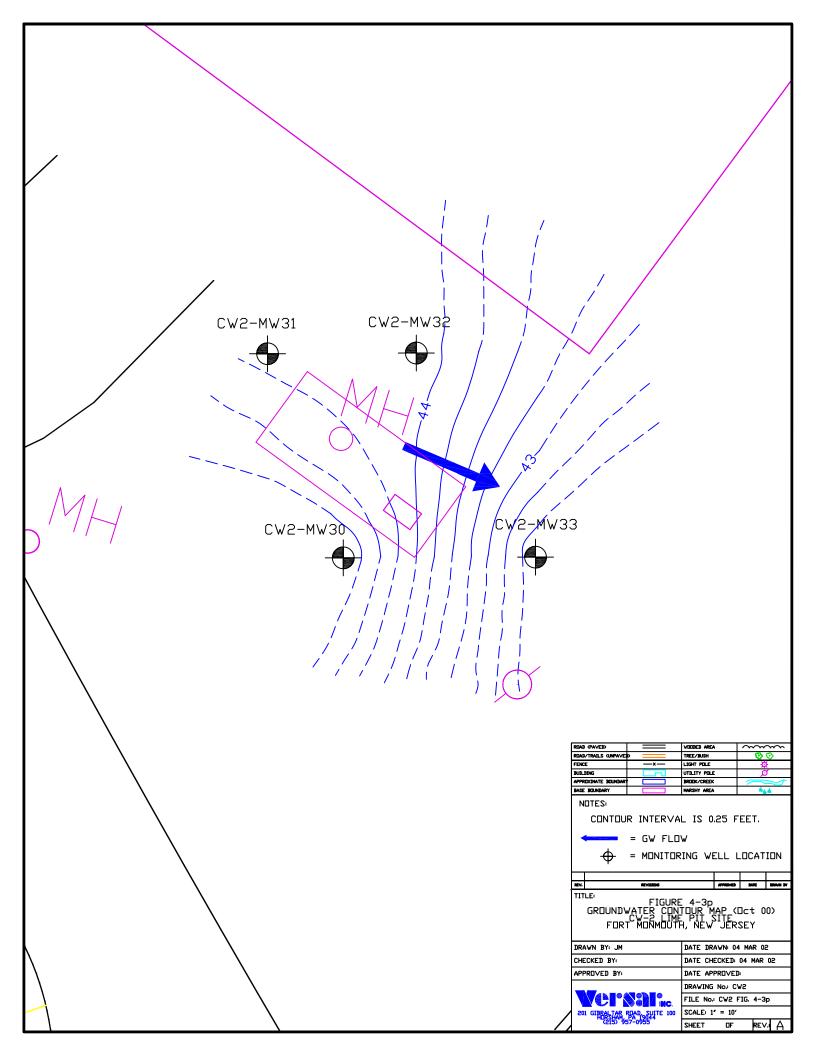


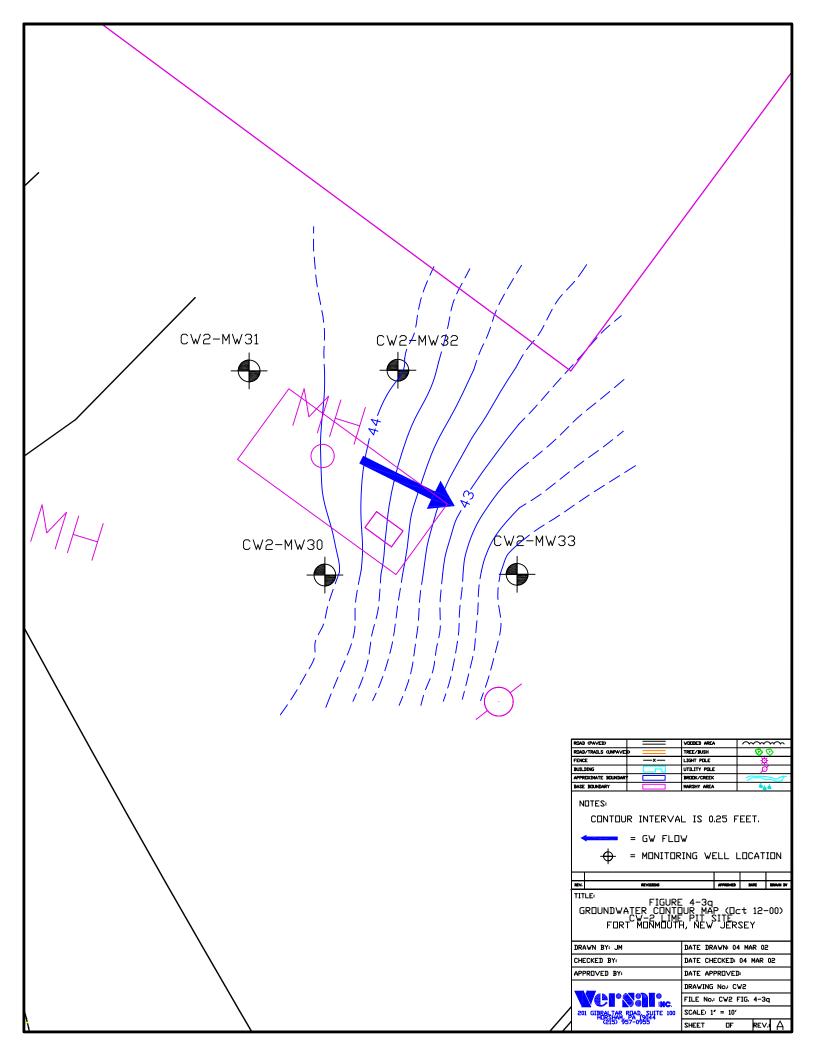


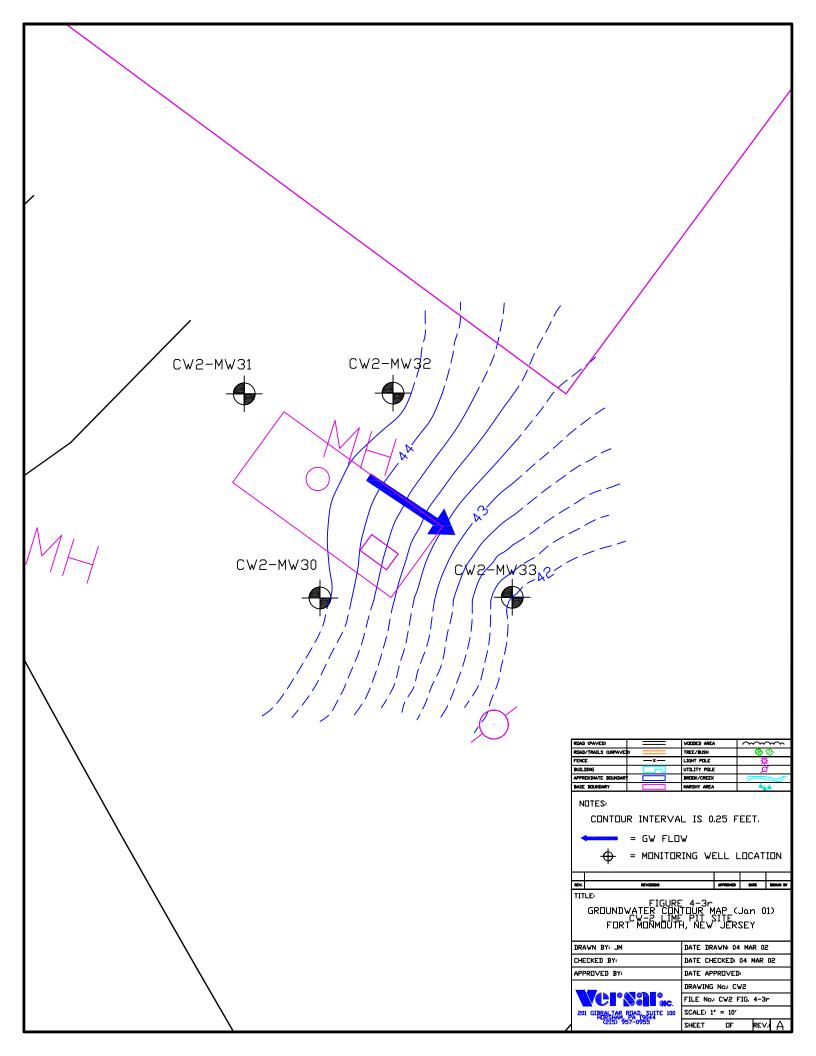














#### **APPENDICES**



## Appendix A

CW-2 Lime Pit Site Investigation Report, Roy F. Weston, Inc., 1995



#### 4.3.3 Wastewater Treatment Lime Pit 2 (CW-2)

#### 4.3.3.1 Site Location

Wastewater Treatment Lime Pit 2 (CW-2) is located southeast of the Hexagon Building (Building 2700) at Charles Wood near an electrical substation (Figure 4.3-3). The approximate area of site CW-2 is 1,751 ft<sup>2</sup> (0.04 acre).

#### 4.3.3.2 Site History

Like Lime Pit 1, Lime Pit 2 (CW-2) was built concurrently with the Hexagon Building; construction was completed in 1952. Liquid wastes from the east and south wings of the Hexagon Building passed through this pit before being discharged to the sanitary sewer. Additional details, including the estimated quantities of wastes discharged through the lime pits, pit construction, and cleanout and replacement of the limestone, were discussed in Subsection 4.3.2.2.

Unlike Lime Pit 1, during cleanout this pit was found to have received sewage. A dye test was conducted and revealed that toilets from the guard shack and a bathroom for the handicapped near the east entrance were mistakenly connected to this pit. The plumbing has been rerouted to discharge the wastewater from the toilets directly to the sanitary sewer.

In October 1992, the pit was cleaned out, inspected, and the limestone chips replaced. A vacuum truck was used to remove the sludge and stones from the pit, after which the pit was rinsed with water. All sludge, stones, and rinse water were placed in drums and disposed of as a hazardous waste. At present, laboratory wastes are managed under the installation hazardous waste program, which forbids the discharge of these wastes to the sewer.

#### 4.3.3.3 Sampling Effort

As in the case of Lime Pit 1, the elevated concentrations of HHCs in sludge, rinse, and grab samples suggest the possibility that solvents were discharged into the lime pits and that they may



have migrated from the lime pits into surrounding soils and possibly into groundwater. To investigate this potential, a monitor well was constructed on each side of the lime pit (MW-30 through MW-33, shown in Figure 4.3-3). Continuous split-spoon samples were screened with an HNu or OVM. According to the CDAP, if any VOCs were detected, soil samples were to be collected from 7- to 9-ft bgs (near the base of the neutralization pit), from the interval with the highest instrument readings, and from just above the water table; otherwise, one sample was to be collected from the 7- to 9-ft interval of each boring. Because no elevated OVM readings were recorded during borehole activities, one sample from the 7- to 9-ft bgs interval was collected for the required parameters. Soil samples were analyzed for TCL +30 parameters and TAL metals. Two rounds of groundwater samples were collected from each well and analyzed for TCL +30 parameters and TAL metals.

#### 4.3.3.4 Hydrogeologic Interpretation

Lithologic logs from site monitor wells MW-30 and MW-31 indicate that the lithology consists of a thin soil cover (0.3 ft) underlain by fill material and reworked natural sediments. The components of the manmade materials consisted of quartz gravel and concrete, wood fragments, and pieces of old electrical conduit. The reworked natural sediments consisted of an interbedded green-gray silty fine-grained sand and green-gray fine-grained sandy silt. Lithologic logs from MW-32 and MW-33 indicate that the lithology consists of a thin soil cover (0.3 ft) underlain by shallow fill material and probable natural sediments. The filled material consisted of concrete fragments (to 2 ft bgs). The probable natural sediments consisted of an interbedded olive-gray moderately sorted silty fine-grained sand and a green moderately sorted very micaceous fine-grained sandy silt.

Groundwater saturation was observed between 1 and 8 ft bgs. The four monitor wells were screened across the water table and total depths ranged from 15 to 16 ft bgs. Water-level elevation data, measured on 6 March 1995, prior to the March 1995 sampling round, indicate that local groundwater flow is eastward (Figure 4.3-4). Based on groundwater elevation measurements, monitor wells MW-32 and MW-33 are downgradient of the former lime pit.



#### 4.3.3.5 Soil Sampling Results

Four soil samples, one in each monitor well borehole, were collected and analyzed for the parameters listed in Table 3.6-1. Samples were collected between 7 and 9 ft bgs. The compounds detected in site soils, with the corresponding sample identifications, are listed in Appendix D. Table 4.3-5 compares site soil quality with the NJDEP SCC, and then compares the results with the subsequent site-specific and Monmouth County maximum background levels, where appropriate.

#### **VOCs**

Two VOCs (methylene chloride and 2-butanone) were detected in concentrations above laboratory quantitation limits. Methylene chloride and 2-butanone are common laboratory contaminants. Both compounds were detected in concentrations well below the NJDEP SCC.

#### **SVOCs**

Eight SVOCs were detected above laboratory quantitation limits in soil borings, but in concentrations below the NJDEP SCC. All SVOCs detected below quantitation limits were found in concentrations below the NJDEP SCC where established.

#### Pesticides/PCBs

Three pesticides (4,4'-DDE, 4,4'-DDD, and 4,4'-DDT) were detected in concentrations above laboratory quantitation limits, but were well below the NJDEP SCC.

One PCB (Aroclor-1254) in SB-30 was detected slightly above the laboratory quantitation limit as well as the NJDEP SCC (Figure 4.3-5). However, the PCB compound was not detected in groundwater samples from the corresponding well location, MW-30. PCBs were not detected in SB-31, SB-32, and SB-33.

## Table 4.3-5 Fort Monmouth - Charles Wood Summary of Detected Compounds in Soils from Site CW-2

COMPOUND	METHOD	RESIDENTIAL	MAXIMUM		ANALYTIC	AL RESULTS	
	DETECTION LIMIT (mg/kg)	DIRECT CONTACT SOIL CLEANUP CRITERIA (ing/lg)	BACKGROUND CONCENTRATION (mg/kg)	SB30-A02 12/16/94 (7-9 ft bgs)	SB31-A02 12/16/94 (7-9 ft bgs)	SB32-A02 12/16/94 (7-9 ft bgs)	SB33-A02 12/16/94 (7-9 ft bgs)
VOC's (mg/kg)							
Methylene Chloride	0.0027	49	ND	0.088	0.086	0.017	ND
2-Butanone	0.0041	1000	ND	ND	0.012 J	0.008 J	ND
SVOCs (mg/kg)							
Napthalene	0.277	230	ND	0.15 J	ND	ND	ND
2-Methylnaphthalene	0.287	NLE	ND	0.1 J	ND	ND	ND
Acenaphthene	0.221	3400	ND	0.17 J	ND	ND	ND
Dibenzofuran	0.215	NLE	ND	0.093 J	ND	ND	ND
Fluorene	0.208	2300	ND	0.21 J	ND	ND	ND
Phenanthrene	0.165	NLE	ND	1.3	ND	ND	0.075 J
Anthracene	0.152	10000	ND	0.33 J	ND	ND	ND
Carbazole	0.145	NLE	ND	0.18 J	ND	ND	ND
Fluoranthene	0.198	2300	0.042 J	1.5	ND	ND	0.073 J
Рутепе	0.178	1700	0.048 J	1.1	ND	ND	0.067 <b>J</b>
Benzo(a)anthracene	0.162	0.9	0.046 J	0.69	ND	ND	ND
Chrysene	0.145	9	0.083 J	0.71	ND	ND	0.043 J
bis(2-Ethylhexyl)phthalate	0.32	49	0.170 Ј	0.16 J	0.1 Ј	0.059 J	ND
Benzo(b)fluoranthene	0.188	0.9	0.078 J	0.79	ND	ND	ND
Benzo(k)fluoranthene	0.205	0.9	0.041 J	0.28 J	ND	ND	ND
Benzo(a)pyrene	0.162	0.66	0.047 J	0.62	0.13 J	0.053 J	0.094 J
Indeno(1,2,3-cd)pyrene	0.234	0.9	ND	0.37 J	ND	ND	ND
Benzo(g,h,i)perylene	0.224	NLE	0.042 J	0.35 J	ND	ND	ND
Dibenzo(a,h)anthracene	0.198	0.66	ND	.089 J	ND	ND	ND
PESTICIDES (mg/kg)							
Aroclor-1254	0.039	0.49	ND	0.75 D	ND	ND	ND
4,4'-DDE	0.0037	2	0.071	0.0035 JP	0.0035 J	ND	0.0083 P
4,4'-DDD	0.0037	3	ND	0.012 P	0.0098	0.0073	0.26
4,4'-DDT	0.0037	2	0.053	0.062 P	0.0058	ND	0.046
METALS TOTAL (mg/kg	Λ.						
Aluminum	3.9	NLE	15700	6450	5430	2920	7310
Arsenic	0.35	20	31.6	5.7	8.5	2.6	15.7
Barium	0.17	700	26	36,2	58.6	23.6	326
Beryllium	0.1	1	1.7	0.58	0.51	0.28	1.5
Calcium	2.2	NLE	653	655	976	502	1270
Cadmium	0.86	1	ND	ND	ND	ND	0.9
Cobalt	0.71	NLE	4.5	0.95	4.2	0.91	5.9
Chromium	1.6	500	128	69.9	48.6	32.2	56.5
Copper	2.2	600	7.27 <sup>1</sup>	2.7	2.9	2.7	5.5
Iron	0.58	NLE	45500	20400	19200	11100	17600
Lead	0.4	400²	15.11	8.1	7.5	3.1	5.6
Magnesium	9.6	NLE	3960	1720	1270	776	1880
Manganese	0.18	NLE	120 <sup>1</sup>	25.1	24.8	12.5	35.1
Nickel	1.4	250	8.3	4.9	11.2	2.6	23.2
Potassium	(12.3-25.8)	NLE	10600	4210	2610	1980	3350
Selenium	0.3	63	0.85	0.29	0.7	0.2	4.2
Vanadium	0.53	370	59.6	36.6	29.1	19.4	23.6
Zinc	0.41	1500	55.6	27.8	44.2	19.3	63.9

Compounds exceeding NJDEP soil cleanup criteria are noted by bold numbers.

Note: MDL's for metal analysis is actually the highest detection limit with potassium given as a range due to high variability.

J- Indicates that the concentration value was estimated due to detection at or near the quantification limit

P- The percent difference between the results from two GC clourns is greater than 25% the lower of the two values is reported

ND - Indicates that the compound was not detected at or below the quantification limits

NLE- No Level Established

ft bgs. - feet below ground surface.

<sup>&</sup>lt;sup>1</sup> Monmouth County maximum background concentrations.

<sup>&</sup>lt;sup>2</sup> NJDEP criteria are referenced in Site Remediation News, Winter 1995.

D - Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis.



#### **Metals**

As indicated in Table 4.3-5, of the 18 metals detected in site soil, only beryllium in SB-33 was found at a concentration slightly exceeding the NJDEP SCC. Although beryllium was detected in a concentration greater than the established Monmouth County background level, the metal was detected below the site-specific background level.

#### 4.3.3.6 Groundwater Sampling Results

Monitor wells at site CW-2 were sampled for the analytical parameters listed in Table 3.8-1. The analytical results for groundwater samples from the individual sampling rounds are listed in Appendix D. Table 4.3-6 compares the average concentrations of the detected compounds from the February and March sampling rounds with the NJDEP GWQC, and then compares the results with the site-specific and Monmouth County maximum background levels, where appropriate.

#### **VOCs**

Tetrachloroethene was the only VOC detected in site groundwater. The compound was detected in a concentration that was below the quantitation limit but slightly exceeding the NJDEP GWQC from the March sampling round only in MW-32 (Figure 4.3-5). Tetrachloroethene was not detected in MW-32 in the February sampling round.

#### **SVOCs**

One SVOC (di-n-butyl phthalate) was detected above the laboratory quantitation limit in MW-31 from the March sampling round. Di-n-butyl phthalate was detected well below the NJDEP GWQC. SVOCs detected below the laboratory quantitation limit were also detected below the NJDEP GWQC.

**Table 4.3-6** Fort Monmouth - Charles Wood **Summary of Average Concentrations of Detected** Compounds in Groundwater - Site CW-2

COMPOUND	METHOD DETECTION	NJDEP GROUNDWATER			SAMPL	RESULTS (µg/ ING DATE	
	LIMIT	QUALITY CRITERIA	CONCENTRATION		MW31	MW32 2/21/95, 3/14/95	MW33
	(µg/L)	(µg/L)	(μg/L)	(avg.)	(avg.)	(avg.)	(avg.)
VOC's (ng/L)							
Tetrachioroethene (PCE)1	2.7**	1*	ND	ND	ND	4J	ND
SVOCs (ug/L)							
1,2,4 Trichlorobenzene	9.6**	9	ND	ND	5J	ND	ND
bis-(2ethylhexyl)phthalate	9.7	30*	600	2J	ND	1.5 J	1.5 J
Di-n-butylphthalate	6.5	900	ND	<b>4</b> J	5.5	4J	<b>4</b> J
MINERAL SERVICE SERVIC							
Aluminum	24	200	8210	129	17.65	447.5	676
Arsenic	1.9	8*	25.1	ND	ND	ND	1.5
Barium	1.7	2000	400 <sup>1</sup>	233.5	180.5	211	234
Calcium	10.4	NLE	8700	63600	36050	46250	51250
Cobalt	2.3	NLE	30.6	ND	ND_	ND	2.9
Chromium	2.9	100	49.6	ND	ND	ND	2.15
Copper	1.9	1000	730¹	3.8	2.15	2	11.9
Iron	6.4	300	27000¹	45750	36350	48950	54450
Potassium	685	NLE	4630	9980	8710	9580	8455
Magnesium	18.3	NLE	25000 <sup>1</sup>	7045	4775	5595	6100
Manganese	1.8	50	4801	365	222.5_	268.5	273
Sodium	30.5	50000	36400	17100	10325	11800	14350
Nickel	10.8	100	48.3	10.65	ND	11.75	2.7
Lead	1.1	10*	<100°	ND	ND	0.7	3.3
Vanadium	2.3	NLE	28.9	ND	ND	3.05	5.15
Zinc	3.8	5000	133	5.7	3.9	13.85	_25.6

<sup>1</sup> Same compound as listed by NJDEP Tetrachloroethylene Compounds exceeding NJDEP groundwater quality criteria are noted by bold numbers.

NLE - No Level Established

<sup>\*</sup>PQL - Practical Quantitation Limit -was used as the NJDEP groundwater quality criteria

J - Indicates that the concentration value was estimated due to detection at or near the quantitation limits

ND - Indicates that the compound was not detected at or below the quantitation limit

<sup>\*\*</sup> Method detection limit exceeded NJDEP groundwater quality criteria

<sup>1 -</sup> Monmouth County maximum background concentrations.



#### Pesticides/PCBs

Pesticides/PCBs were not detected in the site monitor wells from either sampling round.

#### Metals

As indicated in Table 4.3-6, of the 16 metals detected in site groundwater, 3 metals (aluminum, iron, and manganese) were found in concentrations exceeding the NJDEP GWQC. In addition, iron was detected in concentrations greater than those determined for site-specific and Monmouth County maximum background at Charles Wood. The presence of iron in exceedence of the NJDEP GWQC may be attributable to the high concentrations of iron present in natural soil found in Monmouth County. Therefore, iron is not identified as a compounds of concern. Although manganese was detected in concentrations above the site-specific background level in MW-30, MW-32, and MW-33, manganese was found in concentrations below the Monmouth County background level. Aluminum was found in concentrations below both the site-specific and Monmouth County maximum background levels.

#### 4.3.3.7 Recommendations

The results of the soil sampling indicate that one PCB compound (Aroclor-1254) was detected in SB-30 at a concentration slightly above the NJDEP SCC. PCB compounds were not detected in the other three soil borings. In addition, PCBs were not detected in groundwater samples in the corresponding well location, MW-30.

Groundwater sampling results indicate that PCE was detected in the groundwater in one of the four wells (MW-32) in one of the two sampling rounds at levels slightly exceeding the NJDEP GWOC.

Although NJDEP groundwater criteria were exceeded by one VOC at this site, immediate remedial action is not required. The source of contamination has been eliminated since chemicals are not being disposed of in the pit. The pit was cleaned in October 1992 and the limestone



sludge was removed and disposed of as a hazardous waste. Hazardous waste is currently collected for proper disposal off-site and waste is no longer disposed of in the pit. Shallow groundwater flows toward and discharges to the headwaters of Wampum Brook, as indicated by water-level measurements from site monitor wells. There are no known uses of groundwater at or downgradient of the site. Surface-water samples were taken in Wampum Brook in the Charles Wood area and Mill Creek (as Wampum Brook is called further to the east) for use as background samples. No VOCs were detected in these samples, therefore, there is no immediate threat to human health.

The extent of PCE concentrations in groundwater will be investigated by soil-gas survey techniques. The soil-gas survey will be performed on an established grid pattern to estimate the lateral extent of VOCs in the vicinity of the neutralization pit. The results of the soil-gas survey will be used to locate two additional monitor wells if necessary. DPW proposes that a long-term groundwater monitoring program be developed and implemented for the site. Aqueous samples would be collected and analyzed on a quarterly basis to further evaluate water quality conditions at the site. Groundwater samples would be collected from existing monitor wells and from the two newly installed monitor wells. Compounds of concern identified in the first two rounds of sampling would be targeted for the monitoring program. When the additional monitor wells are installed, soil samples will be collected for PCB analysis because of the detection of PCBs in a soil sample collected from SB-30.

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currently collected for proper disposal off-site and waste is no longer disposed of in the pit. Shallow groundwater flows toward and discharges to the headwaters of Wampum Brook, as indicated by water-level measurements in site monitor wells. There are no known uses of groundwater between the acid neutralization pit and Wampum Brook. Surface-water samples were taken in Wampum Brook in the Charles Wood area and Mill Creek (as Wampum Brook is called further to the east) for use as background samples. No VOCs were detected in these samples, therefore, there is no immediate threat to human health.

The extent of VOC concentrations in groundwater will be investigated by soil-gas survey techniques. The soil-gas survey will be performed on an established grid pattern to estimate the lateral extent of VOCs in the vicinity of the neutralization pit. The results of the soil-gas survey will be used to locate two additional monitor wells, if necessary, at the downgradient edge of the plume. DPW proposes that a long-term groundwater monitoring program be developed and implemented for the site. Aqueous samples would be collected and analyzed on a quarterly basis to further evaluate water quality conditions at the site. Groundwater samples would be collected from existing monitor wells and the two newly installed monitor wells. Compounds of concern identified in the first two rounds of sampling would be targeted for the monitoring program.

#### 6.2.2 Wastewater Treatment Lime Pit 2 (CW-2)

Investigation activities performed at site CW-2 included the following:

- Collection of soil samples from four soil borings.
- Installation and sampling of four monitor wells at each of the soil boring locations.

#### 6.2.2.1 Conclusions

The results of the soil sampling indicate that one PCB compound (Aroclor-1254) was detected in SB-30 at a concentration slightly above the NJDEP SCC. PCB compounds were not detected



in the other three soil borings. In addition, PCBs were not detected in groundwater samples in the corresponding well location, MW-30.

Groundwater sampling results indicate that PCE was detected in the groundwater in one of the four wells (MW-32) in one of the two sampling rounds at levels slightly exceeding the NJDEP GWQC.

#### 6.2.2.2 Recommendations

Although NJDEP groundwater criteria were exceeded by one VOC at this site, immediate remedial action is not required. The source of contamination has been eliminated since chemicals are not being disposed of in the pit. The pit was cleaned in October 1992 and the limestone sludge was removed and disposed of as a hazardous waste. Hazardous waste is currently collected for proper disposal off-site and waste is no longer disposed of in the pit. Shallow groundwater flows toward and discharges to the headwaters of Wampum Brook, as indicated by water-level measurements in site monitor wells. There are no known uses of groundwater between the acid neutralization pit and Wampum Brook. Surface-water samples were taken in Wampum Brook in the Charles Wood area and Mill Creek (as Wampum Brook is called further to the east) for use as background samples. No VOCs were detected in these samples, therefore, there is no immediate threat to human health.

The extent of PCE concentrations in groundwater will be investigated by soil-gas survey techniques. The soil-gas survey will be performed on an established grid pattern to estimate the lateral extent of VOCs in the vicinity of the neutralization pit. The results of the soil-gas survey will be used to locate two additional monitor wells if necessary. DPW proposes that a long-term groundwater monitoring program be developed and implemented for the site. Aqueous samples would be collected and analyzed on a quarterly basis to further evaluate water quality conditions at the site. Groundwater samples would be collected from existing monitor wells and from the two newly installed monitor wells. Compounds of concern identified in the first two rounds of sampling would be targeted for the monitoring program. When the additional monitor wells are

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## Appendix B

**Boring Logs and Monitoring Well Construction Records** 

```
BOREHOLE ID : CW2-MW30
                               PROJECT NAME: FT. MONMOUTH
                             END DATE : 12/16/94
BEGIN DATE : 12/16/94
LOGGER/COMPANY : K. VALENTI
BOREHOLE COMPLETED IN (<0>verburden <B>edrock) :
TOTAL DEPTH: 16.00
                            DEPTH TO BEDROCK : 0.00
BOREHOLE DIAMETER #1: 12.00
           INTERVAL: 0.00 ft. to 16.00 ft. BGS
           METHOD : HSA
                                           FLUID : WATER
BOREHOLE DIAMETER #2: 3.00
           INTERVAL: 12.00 ft. to 14.00 ft. BGS
           METHOD : SPS
                                           FLUID:
BOREHOLE DIAMETER #3:
           INTERVAL:
                                           FLUID :
           METHOD:
DRILLING COMPANY : J.C. ANDERSON
DRILLER : WELLS REEVE
DRILL RIG TYPE : CME-55
                      ESTIMATED
                                               SURVEYED
   SURFACE
   ELEVATION :
                      0.000
                                             49.470
N. COORDINATE: 0.0000
E. COORDINATE:
                     0.0000
WELL PERMIT.....(Y)es (N)o: N PERMIT # : NJ 29 32594
HOLE ABANDONED...(Y)es (N)o: N
WELL INSTALLED...(Y)es (N)o: Y
WELL CLUSTER.....(Y)es (N)o: N No. OF WELLS : 0
WELL NEST.....(Y)es (N)o: N No. OF WELLS: 0
PUMPS INSTALLED.. (Y) es (N) o: N
                                           TYPE
                                                          DEPTH
                                PURGE
                                                          0.00
                               SAMPLE :
                                                          0.00
BOREHOLE TESTING
  BOREHOLE GEOPHYSICS.....(Y)es (N)o: N
 SLUG TESTS.....(Y)es (N)o: N
  PACKER TESTS.....(Y)es (N)o: N
  PUMPING TESTS.....(Y)es (N)o: N
COMMENTS:
  1st location moved after collecting one spoon with no rec.
  Latitude-North: 40 deg 17' 43.3"
  Longitude-West: 74 deg 05' 10.4"
```

	MONMO		H D ARE	DRILLING FIRM J.C. ANDERSON A INSPECTOR K. VALENTI
WELL ID START DATE COMPLETION DATE	12	2/1	MW30 6/94 6/94	WATER LEVELS
	DEPTH		ELEV.	DRILLING SUMMARY
Protective Casing	2.24	TC	51.71	
4.00 inch	0.00	GS	49.47	Drilling Fluid WATER Well Type SINGLE CASED SCREENED
				WELL DESIGN CONSTRUCTION  Casing #1 Diameter: 4.00 inch Interval: 0.00 to 6.00 ft.
				Type: PVC SCH 40
				Stick Up Inner Casing: 2.24 ft. Protective Casing: 2.68 ft.
				Casing Grout: PORTLAND CEMENT Interval: 0.00 to 2.00 ft.
				Seal Type: BENTONITE Interval: 2.00 to 4.00 ft.  Sand Pack Type: #1 MORIE Interval: 4.00 to 16.00 ft.  Grain Size: UNIFORM Median Diameter:  Screen Diameter: 4.00 Interval: 6.00 to 15.54 ft.
	2.00	RN	47.47	Type: PVC Slots: 0.010 inches
	2.00			Silt Trap Interval: 15.54 to 16.00 ft.  Backfill Type: Interval: 0.00 to 0.00 ft.
	4.00	SP	45.47	
	6.00	sc	43.47	WELL DEVELOPMENT  Date 01/08/95  Method Bailing/surge blocking
				Yield 1 gpm Purged Volume 68 gal
	15.54	BS	33.93	COMMENTS  TC = Top of Casing SP = Top Sand Pack = Grout  GS = Ground Surface SC = Top Screen = Seal  BN = Top Seal BS = Bottom Screen = Sand Pack
	16.00	TD	33.47	TD = Total Depth
				Autonovitta Cultillelias.

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

## Borehole Log

PROJECT : FT. MONMOUTH

SITE NAME : CHARLES WOOD AREA

BORING ID : CW2-MW30

NORTHING: 0.0000 estimated
EASTING: 0.0000 estimated
ELEVATION: 49.470 surveyed

TOTAL DEPTH : 16.00

LOGGER : K. VALENTI

DRILLING COMPANY : J.C. ANDERSON

DRILLING RIG : CME-55
DATE STARTED : 12/16/94

DATE COMPLETED : 12/16/94

ELEVATION	ОЕРТН	MATERIAL	* RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD	INSTRUMENT READING	COMMENTS
- 48 - -	1		65	Poorly graded sand with silt, SP-SM	BROWN LT BROWN	LSE	MST	10 11 10 12	HNU		Top 3" bgs = topsoil. Some organics-roots. 1st hole abandoned with HNu=10.0.  Lt brown sand (little silt, mottles noted.)
47 -	2		65	Silty sand, SM	DK GRAY TO BRN	LSE	WET	89 13 11	HNU	20.0	Noted mottling with iron (Fe) staining.
46 -	- 3			Silty sand, SM No Sample Recovered	DK GRAY	SFT	WET		HNU	20.0	Fine silt (some) finer sands. SPS is wet.
45 -	- 4		75	Silty sand, SM	GRAY BROWN	SFT	WET	15 17 11 7	HNU		Gray mottles noted.
44 -	- 5			Sandy elastic silt, MH	GREENISH GRAY	SFT	WET		HNU	0.0	6" piece of wood noted at bottom of spoon/
43 -	6		20	No Sample Recovered  Sandy elastic silt, MH  No Sample Recovered	GRAYISH GREEN	SFT	WET	5654	HNU	3.0	Same as above interval. Wood pieces.
42 -	7										
41 -	-8		50	Sandy silt, ML	GREENISH GRAY	SFT	WET	5443	HNU	150.0	3" SPS used. Same lith. as noted in previous interval. Sampled W2-SB30
40 -	- 9		٠	No Sample Recovered							
39 -	- 10		80	Silty sand, SM	GREENISH GRAY	LSE	WET		HNU	0.0	3" SPS used. Fine sands little silt.

## Borehole Log

PROJECT : FT. MONMOUTH TOTAL DEPTH : 16.00

SITE NAME : CHARLES WOOD AREA LOGGER : K. VALENTI BORING ID : CW2-MW30 DRILLING COMPANY : J.C. ANDERSON

NORTHING : 0.0000 estimated DRILLING RIG : CME-55 EASTING : 0.0000 estimated DATE STARTED : 12/16/94 ELEVATION : 49.470 surveyed DATE COMPLETED : 12/16/94

ELEVATION	ОЕРТН	MATERIAL	% RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD	INSTRUMENT	COMMENTS
38 -	- 11			Silty sand, SM  No Sample Recovered	GREENISH GRAY	LSE	WET		HNU	0.0	3" SPS used. Fine sands little silt.
37 -	12			Silty sand, SM	GREENISH GRAY	SFT	WET	4843	HNU	0.0	Mostly quartz sand.
36 -	-										
35 -				Well-graded sand, SW Elastic silt, MH	GREENISH GRAY DK GRAY BLACK	LSE FRM	MST MST	3523	HNU	0.0	Some white quartz stones.  Set well at 16' bgs. TD of borehole 16' bgs.
33 -	-		!	No Sample Recovered							·.
32 -	-				·						
31 -								-			
30 -	- 19										
29 -	- 20										

DATE: 06/20/95 \*\*\*\* Roy F. WESTON, Inc. LITHOLOGICAL DATA FOR - CLIENT ID: USAC2 \*\*\* PAGE: 12

BOREHOLE	SMP	LTH	LITHOLOGY	INT.	SAMPLING	SIZE G	RAVEL	SIZE	SAND	SILT	CLAY	ORGANIC	ROCK					STRAT
/WELL ID	NUM	NUM	(FT BGS	3)	METHOD	GRAVEL P	CT.	SAND	PCT	PCT	PCT	PCT	TYPE	PLAST	SORT	STRENGTH	MOISTURE	UNIT
																•		
CW2-MW30	1	1	0.00	0.80	SPS		1		60	35	0	4		NON	MOD	LSE	MST	
CW2-MW30	1	2	0.80	1.30	SPS		0		90	10	0	0		NON	MOD	LSE	MST	
CW2-MW30	1	3	1.30	2.00	SPS		0		0	0	0	0						
CW2-MW30	. 2	1	2.00	2.80	SPS		1		55	39	5	0		LOW	MOD	LSE	WET	
CW2-MW30	2	2	2.80	3.30	SPS		0		70	30	0	0		LOW	WEL.	SFT	WET	
CW2-MW30	2	3	3.30	4.00	SPS		0		0	0	0	0						
CW2-MW30	3	1	4.00	4.50	SPS		0		65	35	0	0		LOW	POR	SFT	WET	
CW2-MW30	3	2	4.50	5.50	SPS		0		35	60	5	0		MOD	MOD	SFT	WET	
CW2-MW30	3	3	5.50	6.00	SPS		0		0	0	0	0						
CW2-MW30	4	1	6.00	6.40	SPS		0		40	60	0	0		MOD	WEL	SFT	WET	
CW2-MW30	4	2	6.40	8.00	SPS		0		. 0	0	0	0						
CW2-MW30	5	1	8.00	9.00	SPS		0		40	60	0	0		LOW	MOD	SFT	WET	
CW2-MW30	5	2	9.00	10.00	SPS		0		0	0	0	0						
CW2-MW30	6	1	10.00	11.60	SPS	•	0	F	85	15	0	0		LOW	WEL	LSE	WET	
CW2-MW30	6	2	11.60	12.00	SPS		0		0	0	0	0				•		
CW2-MW30	7	1	12.00	14.00	SPS		5		80	15	0	0		NON	MOD	SFT	WET	
CW2-MW30	8	1	14.00	14.30	SPS	•	10		80	5	0	0		NON	POR	LSE	MST	
CW2-MW30	. 8	2	14.30	15.00	SPS		0		0	90	10	0		MOD	WEL	FRM	MST	
CW2-MW30	8	3	15.00	16.00	SPS		0		0	0	0	0						•

#### Borehole Location Data

PROJECT NAME: FT. MONMOUTH END DATE : 12/16/94 BOREHOLE ID : CW2-MW31 BEGIN DATE : 12/16/94 LOGGER/COMPANY : K. VALENTI BOREHOLE COMPLETED IN (<0>verburden <B>edrock) : 0 TOTAL DEPTH: 16.00 DEPTH TO BEDROCK : 0.00 BOREHOLE DIAMETER #1: 12.00 INTERVAL: 0.00 ft. to 16.00 ft. BGS METHOD : HSA FLUID : WATER BOREHOLE DIAMETER #2: INTERVAL: METHOD: FLUID : **BOREHOLE DIAMETER #3:** INTERVAL: METHOD: FLUID: DRILLING COMPANY : J.C. ANDERSON : STEVE BURGER DRILLER DRILL RIG TYPE : MOBILE B-57 ESTIMATED SURVEYED SURFACE ELEVATION : 0.000 49.670 N. COORDINATE: 0.0000 E. COORDINATE: 0.0000 WELL PERMIT.....(Y)es (N)o: N PERMIT # : NJ 29 32595

HOLE ABANDONED...(Y)es (N)o: N

WELL INSTALLED...(Y)es (N)o: Y

WELL CLUSTER....(Y)es (N)o: N No. OF WELLS: 0

WELL NEST.....(Y)es (N)o: N No. OF WELLS: 0

PUMPS INSTALLED...(Y) es (N)  $\circ$ : N TYPE DEPTH PURGE : 0.00

SAMPLE: 0.00

BOREHOLE TESTING

BOREHOLE GEOPHYSICS....(Y)es (N)o: N
SLUG TESTS.....(Y)es (N)o: N
PACKER TESTS.....(Y)es (N)o: N
PUMPING TESTS.....(Y)es (N)o: N

COMMENTS :

SPS/augered to 8' bgs. Severed wire (subsurface) @approx. 2' bgs. Abandoned location. Moved location 1'. Latitude-North:

40 deg 17' 43.6"/Longitude-West: 74 deg 05' 10.5"

	MONMO RLES V		H D AREA	DRILLING FIRM J.C. ANDERSON A INSPECTOR K. VALENTI
WELL ID START DATE COMPLETION DATE	12	2/1	MW31 6/94 6/94	WATER LEVELS
	DEPTH		ELEV.	DRILLING SUMMARY
Protective Casing	1.91		51.58	Driller STEVE BURGER
<u>4.00 in</u> ch	0.00	GS	49.67	Drilling Fluid WATER Well Type SINGLE CASED SCREENED
				WELL DESIGN CONSTRUCTION  Casing #1 Diameter: 4.00 inch Interval: 0.00 to 5.00 ft.  Type: PVC SCH 40
				Stick Up Inner Casing: 1.91 ft. Protective Casing: 2.51 ft.  Casing Grout: PORTLAND CEMENT Interval: 0.00 to 1.00 ft.  Seal Type: BENTONITE Interval: 1.00 to 3.00 ft.
	4.00	DΝ	40.4	Sand Pack Type: #1 MORIE Grain Size: UNIFORM  Screen Diameter: 4.00 Type: PVC  Interval: 3.00 to 16.00 ft.  Median Diameter: Interval: 5.00 to 14.54 ft.  Slots: 0.010 inches
	1.00	BIV	48.67	Silt Trap Interval: 14.45 to 15.00 ft.
	3.00	SP	46.67	Backfill Type: Interval: 0.00 to 0.00 ft.
	5.00	SC	44.67	WELL DEVELOPMENT  Date 01/05/95  Method Bailing  Yield <1 gpm Purged Volume 25 gal
	14.54	BS	35.13	COMMENTS  TC = Top of Casing SP = Top Sand Pack = Grout  GS = Ground Surface SC = Top Screen = Seal
	15.00	TD	34.67	BN = Top Seal BS = Bottom Screen = Sand Pack TD = Total Depth = Formation  Additional Comments:
				Aunional Comments:

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

PROJECT : FT. MONMOUTH TOTAL DEPTH : 16.00

SITE NAME : CHARLES WOOD AREA LOGGER : K. VALENTI

BORING ID : CW2-MW31 DRILLING COMPANY : J.C. ANDERSON NORTHING : 0.0000 estimated DRILLING RIG : MOBILE B-57

EASTING: 0.0000 estimated DATE STARTED: 12/16/94 ELEVATION: 49.670 surveyed DATE COMPLETED: 12/16/94

	-		54	T	T	1		F.	-	ㅁ		1
ELEVATION	ОЕРТН	MATERIAL	* RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD	H	READING	COMMENTS
			100	Silty sand, SM	BROWN	LSE	MST	5967	HNU	3.0		Fill. Top 3" organics/ topsoil. Brown little silt, mostly sand.
48 -	1							7				sitt, mostly sand.
47 -	,				<u></u>							
-	2		75	Silty sand, SM	BROWN	SFT	MST	10	HNU	1.0		Fill, Same lithology as previous interval. Some orange iron (Fe) staining noted throughout spoon.
46 -	3			Silty sand, SM	GRAY	FRM	MST	5	HNU	1.0		  Fill. More silt than
				,				5967				Fill. More silt than above interval. Firm but able to crush between fingers.
				No Sample Recovered	1			'				1
45 -	4	. ;	50	Sandy elastic silt, MH	DK GRAY	FRM	MST	7	HNU-	0.0		Fill. Same as preyious
_								5				Fill. Same as previous interval. More silt/clay texture. Water present at 5' bgs.
			•									
44 -	5			No Sample Recovered	·							
-	-					1						
43 -	6		75	Sandy elastic silt, MH	DK GRAY	SFT	WET	4479	HNU	2.0		Same lithology as previous interval.
-								6				
	_											
42 -	[ ′			Silty sand, SM	GRAYISH GREEN	SFT	WET		HNU	2.0		Uncertain. Mostly fine sands. Sample CW2-SB31 collected. Wine at depth noted by auger cuttings.
-	-			No Sample Recovered								noted by auger cuttings.
41 -	я		60	Silty and St	CDAVIOU CDEEP	CFT	C47	2		0 0		Same Lithelegy province
"'			OU	Silty sand, SM	GRAYISH GREEN	SFT	SAT	2226	HNU	<b>U.U</b>		Same lithology previous interval. Sample CW2-SB31 collected.
-	-							6				
40 -	- 9											
	-			No Sample Recovered								
-	-		;									
39 -	10	<u> </u>	75	Silty sand, SM	GRAY GREEN	SFT	SAT	2	HNU	0.0		Uncertain.
	}					}		2 4 3	HNU			

## Borehole Log

PROJECT : FT. MONMOUTH TOTAL DEPTH : 16.00

SITE NAME : CHARLES WOOD AREA LOGGER : K. VALENTI
BORING ID : CW2-MW31 DRILLING COMPANY : J.C. ANDERSON

NORTHING : 0.0000 estimated DRILLING RIG : MOBILE B-57
EASTING : 0.0000 estimated DATE STARTED : 12/16/94
ELEVATION : 49.670 surveyed DATE COMPLETED : 12/16/94

ELEVATION	рертн	MATERIAL	* RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD	INSTRUMENT	COMMENTS
38 -	- 11			Silty sand, SM	GRAY GREEN	SFT	SAT		HNU	0.0	Uncertain.
37 -	12		75	No Sample Recovered  Poorly graded sand with silt, SP-SM	DK GREEN GRAY	LSE	SAT	2326	HNU	0.0	Mostly sand with little silt.
36 -	13			Elastic silt, MH No Sample Recovered	DK GRAY	FRM	MST		HNU	0.0	
35 -	14		50	Elastic silt, MH	DK GRAY	FRM	MST	5 10 7	HNU	0.0	Same lithology as previous interval.
34 -	- 15 -			No Sample Recovered							
33 -	- 16 -										
32 -	17		-								
31 -	•										
30 -	-										
29 -	- 20									····	

DATE: 06/20/95 \*\*\*\* Roy F. WESTON, Inc. LITHOLOGICAL DATA FOR - CLIENT ID: USAC2 \*\*\* PAGE: 13

BOREHOLE	SMP	LTH	LITHOLOGY	INT.	SAMPLING	SIZE G	RAVEL	SIZE	SAND	SILT	CLAY	ORGANIC	ROCK					STRAT
/WELL ID	NUM	NUM	(FT BGS	)	METHOD	GRAVEL PO	CT.	SAND	PCT	PCT	PCT	PCT	TYPE	PLAST	SORT	STRENGTH	MOISTURE	UNIT
								*										
CW2-MW31	1	1	0.00	2.00	SPS		0		80	20	0	0		LOW	MOD	LSE	MST	
CW2-MW31	2	1	2.00	3.00	SPS		0		85	15	0	0		LOW	MOD	SFT	MST	
CW2-MW31	2	<sup>)</sup> 2	3.00	3.50	SPS		0		60	40	0	0		LOW	WEL	FRM	MST	
CW2-MW31	2	3	3.50	4.00	SPS		0		0	0	0	0						
CW2-MW31	3	1	4.00	5.00	SPS		0	F	40	55	5	0		MOD	WEL	FRM	MST	
CW2-MW31	3	2	5.00	6.00	SPS		0		0	0	0	0						
CW2-MW31	4	1	6.00	7.00	SPS		0		40	55	5	0		MOD	MOD	SFT	WET	
CW2-MW31	4	2	7.00	7.50	SPS		0	F	80	20	0	. 0		LOW	WEL	SFT	WET	
CW2-MW31	4	3	7.50	8.00	SPS	•	0		0	0	0	0						*
CW2-MW31	5	1	8.00	9.20	SPS		0		80	20	0	0		LOW	WEL	SFT	SAT	
CW2-MW31	5	2	9.20	10.00	SPS		0		0	0.	0	0	-					
CW2-MW31	6	1	10.00	11.50	SPS		0		80	20	0	. 0		LOW	WEL	SFT	SAT	
CW2-MW31	6	2	11.50	12.00	SPS		0		0	0	. 0	0						•
CW2-MW31	7	1	12.00	13.00	SPS		0		90	10	0	0		NON	WEL	LSE	SAT	
CW2-MW31	7	2	13.00	13.50	SPS	•	0		0	80	20	0		MOD	WEL	FRM	MST	
CW2-MW31	. 7	3	13.50	14.00	SPS		0		0	0	0	0						
CW2-MW31	8	1	14.00	15.00	SPS		0		0	80	20	0		MOD	WEL	FRM	MST	
CW2-MW31	8	. 5	15.00	16.00	SPS		0		0	0	0	; <b>0</b>			•			

BOREHOLE ID : CW2-MW32 PROJECT NAME: FT. MONMOUTH

BEGIN DATE : 12/16/94 END DATE : 12/16/94

LOGGER/COMPANY : P. THOMAS

BOREHOLE COMPLETED IN (<0>verburden <B>edrock) : 0

TOTAL DEPTH: 15.00 DEPTH TO BEDROCK: 0.00

BOREHOLE DIAMETER #1: 12.25

INTERVAL: 0.00 ft. to 15.00 ft. BGS

METHOD: HSA FLUID: NONE

BOREHOLE DIAMETER #2:

INTERVAL:

METHOD: FLUID:

BOREHOLE DIAMETER #3:

INTERVAL:

METHOD : FLUID :

DRILLING COMPANY : J.C. ANDERSON DRILLER : STEVE BURGER

DRILL RIG TYPE : MOBILE B-57

ESTIMATED SURVEYED

SURFACE

ELEVATION: 0.000 49.470

N. COORDINATE: 0.0000

E. COORDINATE: 0.0000

WELL PERMIT.....(Y)es (N)o: N PERMIT # : NJ 29 32596

HOLE ABANDONED...(Y)es (N)o: N

WELL INSTALLED...(Y)es (N)o: Y

WELL CLUSTER....(Y)es (N)o: N No. OF WELLS : 0 WELL NEST.....(Y)es (N)o: N No. OF WELLS : 0

PUMPS INSTALLED...(Y)es (N)o: N TYPE DEPTH
PURGE: 0.00

SAMPLE: 0.00

BOREHOLE TESTING

BOREHOLE GEOPHYSICS.... (Y) es (N) o: N SLUG TESTS......(Y) es (N) o: N PACKER TESTS......(Y) es (N) o: N PUMPING TESTS.....(Y) es (N) o: N

COMMENTS:

Latitude North: 40 deg 17' 43.6" Longitude West: 74 deg 05' 10.3"

CLIENT FT. N SITE NAME CHARI				DRILLING FIRM J.C. ANDERSON A INSPECTOR P. THOMAS
WELL ID START DATE COMPLETION DATE	12	2/1	MW32 6/94 6/94	WATER LEVELS
	)EPTH		ELEV.	DRILLING SUMMARY
Protective Casing	1.91	TC	51.38	Driller STEVE BURGER Drilling Fluid NONE
4.00 inch	0.00	GS	49.47	
				WELL DESIGN CONSTRUCTION
				Casing #1 Diameter: 4.00 inch Interval: 0.00 to 5.00 ft.  Type: PVC SCH 40
				Stick Up Inner Casing: 1.91 ft. Protective Casing: 2.61 ft.
				Casing Grout: CEMT/BENT Interval: 0.00 to 0.80 ft
				Seal Type: BENTONITE SLURRY Interval: 0.80 to 3.00 fi
				Sand Pack Type: NO. 1 MORIE  Grain Size: UNIFORM  Interval: 3.00 to 5.00 ft  Median Diameter:
				Screen Diameter: 4.00 Interval: 5.00 to 14.54 ft.  Type: PVC Slots: 0.010 inches
	0.80	BN	48.67	
	3.00	SP	46.47	Silt Trap Interval: 14.54 to 15.00 ft.  Backfill Type: Interval: 0.00 to 0.00 ft.
				WELL DEVELOPMENT Date 01/05/95
	5.00	sc	44.47	Method Bailing/surge blocking Yield 1 gpm Purged Volume 46 gal
				COMMENTS
	14.54	BS	34.93	TC = Top of Casing SP = Top Sand Pack = Grout  GS = Ground Surface SC = Top Screen = Seal  BN = Top Seal BS = Bottom Screen = Sand Pack
	15.00	TD	34.47	TD = Total Depth ####################################
				Additional Comments:  Depths measured below ground surface.

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

## Borehole Log

PROJECT : FT. MONMOUTH TOTAL DEPTH : 15.00

SITE NAME : CHARLES WOOD AREA LOGGER : P. THOMAS

BORING ID : CW2-MW32 DRILLING COMPANY : J.C. ANDERSON NORTHING : 0.0000 estimated DRILLING RIG : MOBILE B-57

EASTING : 0.0000 estimated DATE STARTED : 12/16/94 ELEVATION : 49.470 surveyed DATE COMPLETED : 12/16/94

ELEVATION	рертн	MATERIAL	* RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD	INSTRUMENT	COMMENTS
48 -	1		40	Silty sand, SM  No Sample Recovered	BROWN	SFT	SAT	55 10 12	HNU	0.0	0-0.4 topsoil.
47 -	2	elektoria Selektoria Programa States		Silty sand with gravel, SM No Sample Recovered	BROWN	LSE	SAT	13 20 10 10	HNU	0.0	Note: Top 4-4.1 - gravel (concrete?)
46 -	_		20	Silty sand, SM	GRAY	SFT	SAT		HNU	n· n	
- 44 -				No Sample Recovered	urat .	SF1	3A1	5535		0.0	
43 -	6		60	Silty sand, SM	BROWN/GRAY	LSE	SAT	357 14	HNU	0.0	
42 -	7			No Sample Recovered							
41 -	-			Silty sand, SM  Silty sand with gravel, SM	OLIVE/GRAY	LSE			HNU	0.0	
39 -	-	260W4X		No Sample Recovered  Sandy silt, ML	GRAY	SFT				0.0	v. micaceous

PROJECT FT. MONMOUTH TOTAL DEPTH : 15.00 SITE NAME : CHARLES WOOD AREA LOGGER : P. THOMAS DRILLING COMPANY : J.C. ANDERSON BORING ID : CW2-MW32 NORTHING : 0.0000 estimated : MOBILE B-57 DRILLING RIG EASTING : 0.0000 estimated : 12/16/94 DATE STARTED : 12/16/94 ELEVATION: 49.470 surveyed DATE COMPLETED

Γ-	Γ	т	Ъ .	<u> </u>	<u> </u>	Ι		₽	H	
ELEVATION	ОЕРТН	MATERIAL	* RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
				Sandy silt, ML	GRAY	SFT	WET		HNU 0.0	v. micaceous
38 -	11			No Sample Recovered						
37 -	12	ļ.,.,.	60	Sandy silt, ML	GRAY	SET	UFT	3	HNULOO	
36 -	_		80	Sandy Sitt, ML	ura i	Sr i	WEI	3 6 12	HNU 0.0	
		<u> </u>		No Sample Recovered		İ				
-	-									
	١									
35 -	14			Interval Not Sampled						Set well at 15' bgs.
34 -	- - 15 -									
33 -	16									
72	- 17									
32 -	-			·						·
31	- 18									
-	.5									·
	-					,				
30	- 19									
] ]						1				
	-									
29	- 20				-					

DATE: 06/20/95 \*\*\*\* Roy F. WESTON, Inc. LITHOLOGICAL DATA FOR - CLIENT ID: USAC2 \*\*\* PAGE: 14

BOREHOLE	SMP	LTH	LITHOLOGY	INT.	SAMPLING	SIZE	GRAVEL	SIZE	SAND	SILT	CLAY	ORGANIC	ROCK					STRAT
/WELL ID	NUM	NUM	(FT BGS		METHOD _	GRAVEL	PCT.	SAND	PCT	PCT	PCT	PCT	TYPE	PLAST	SORT	STRENGTH	MOISTURE	UNIT
				_														
CW2-MW32	1	1	0.00	0.80	SPS	C	10	MF	45	25	5	15		NON	POR	SFT	SAT	
CW2-MW32	1	2	0.80	2.00	SPS		0		0	0	0	0						
CW2-MW32	2	1	2.00	2.40	SPS	MF	15	MF	55	25	5	0		NON	POR	LSE	SAT	
CW2-MW32	2	2	2.40	4.00	SPS		0		0	0	0	0						•
CMS-MM32	3	1 '	4.00	4.40	SPS		0	MF	60	30	10	0		LOW	MOD	SFT	SAT	
CM2-MM32	3	2	4.40	6.00	SPS		0		0	0	0	0					•	
CW2-MW32	4	1	6.00	7.20	SPS		0	MFC	75	20	5	0		NON	MOD	LSE	SAT	
CW2-MW32	4	. 2	7.20	8.00	SPS		0		0	0	0	0						
CW2-MW32	5	1	8.00	9.00	SPS		0	MF	75	20	5	0		NON	MOD	LSE	SAT	
CW2-MW32	5	2	9.00	9.30	SPS	MCF	35	MF	50	15	0	0		NA	POR	LSE	SAT	
CW2-MW32	5	3	9.30	10.00	SPS		0		0	0	0	0						
CW2-MW32	6	1	10.00	11.50	SPS		0	F	40	55	5	0	•	NON	MOD	SFT	WET	
CW2-MW32	6	2	11.50	12.00	SPS		0		0	0	0	0						•
CW2-MW32	7	1	12.00	13.20	SPS		0	F	40	55	5	0		NON	WEL	SFT	WET	
CW2-MW32	7	2	13.20	14.00	SPS		0		0	0	0	0						
CW2-MW32	8	1	14.00	15.00	NS NS		0		0	0	0	0						

BOREHOLE ID : CW2-MW33 PROJECT NAME: FT. MONMOUTH END DATE : 12/15/94

BEGIN DATE : 12/15/94

LOGGER/COMPANY : P. THOMAS

BOREHOLE COMPLETED IN (<0>verburden <B>edrock) : 0

TOTAL DEPTH: 15.00 DEPTH TO BEDROCK : 0.00

BOREHOLE DIAMETER #1: 12.25

INTERVAL: 0.00 ft. to 15.00 ft. BGS

METHOD : HSA FLUID : NONE

BOREHOLE DIAMETER #2:

INTERVAL:

METHOD : FLUID :

BOREHOLE DIAMETER #3:

INTERVAL:

METHOD : FLUID:

DRILLING COMPANY: J.C. ANDERSON : STEVE BURGER DRILLER DRILL RIG TYPE : MOBILE B-57

ESTIMATED SURVEYED

SURFACE

ELEVATION: 0.000 49.180

N. COORDINATE: 0.0000

E. COORDINATE: 0.0000

WELL PERMIT.....(Y) es (N) o: N PERMIT # : NJ 29 32597

HOLE ABANDONED ... (Y) es (N) o: N

WELL INSTALLED...(Y)es (N)o: Y

WELL CLUSTER....(Y)es (N)o: N No. OF WELLS : 0 WELL NEST.....(Y)es (N)o: N No. OF WELLS : 0

PUMPS INSTALLED.. (Y) es (N) o: N TYPEDEPTH

PURGE 0.00

SAMPLE : 0.00

BOREHOLE TESTING

BOREHOLE GEOPHYSICS.....(Y)es (N)o: N SLUG TESTS.....(Y)es (N)o: N PACKER TESTS.....(Y)es (N)o: N PUMPING TESTS.....(Y) es (N) o: N

COMMENTS:

Latitude-North: 40 deg 17' 43.3" Longitude-West: 74 deg 05' 10.2"

1	MONMO		H D AREA	DRILLING FIRM J.C. ANDERSON A INSPECTOR P. THOMAS
WELL ID START DATE COMPLETION DATE	12	/1!	MW33 5/94 5/94	WATER LEVELS
	DEPTH		ELEV.	DRILLING SUMMARY
Protective Casing	1.91		51.09	
4.00 inch	0.00	GS	49.18	
				WELL DESIGN CONSTRUCTION  Casing #1 Diameter: 4.00 inch Interval: 0.00 to 5.00 ft.  Type: PVC SCH 40
				Stick Up Inner Casing: 1.91 ft. Protective Casing: 1.99 ft.  Casing Grout: CEMT/BENT Interval: 0.00 to 0.50 ft.  Seal Type: BENTONITE SLURRY Interval: 0.50 to 3.00 ft.  Sand Pack Type: NO. 3 MORIE Interval: 3.00 to 15.00 ft.  Grain Size: UNIFORM Median Diameter:  Screen Diameter: 4.00 Interval: 5.00 to 14.54 ft.  Type: PVC Slots: 0.010 inches
	0.50	BN	48.68	Silt Trap Interval: 14.54 to 15.00 ft.
	3.00	SP	46.18	Backfill Type: Interval: 0.00 to 0.00 ft.
	5.00	SC	44.18	WELL DEVELOPMENT  Date 01/24/95  Method Surge Blocking/Bailing  Yield 1 gpm Purged Volume 60 gal
	14.54	BS	34.64	COMMENTS  TC = Top of Casing SP = Top Sand Pack = Grout  GS = Ground Surface SC = Top Screen = Seal  BN = Top Seal BS = Bottom Screen = Sand Pack
	15.00	TD	34.18	TD = Total Depth
				Depths measured below ground surface.

NOTE: Well Diagram not to Scale

Elevations are feet above mean sea level

PROJECT : FT. MONMOUTH

SITE NAME : CHARLES WOOD AREA

BORING ID : CW2-MW33

NORTHING: 0.0000 estimated
EASTING: 0.0000 estimated
ELEVATION: 49.180 surveyed

TOTAL DEPTH : 15.00

LOGGER : P. THOMAS

DRILLING COMPANY : J.C. ANDERSON

DRILLING RIG : MOBILE B-57
DATE STARTED : 12/15/94

DATE COMPLETED : 12/15/94

ELEVATION	ОЕРТН	MATERIAL	* RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD	INSTRUMENT	COMMENTS
48 -	- 1 -			Silt with sand, ML Silty sand, SM No Sample Recovered	BROWN BROWN	SFT	MST	6 11 12	HNU		Topsoil; plant/grass fragments.
47 -	•		60	Silty sand, SM No Sample Recovered	BROWN	SFT	MST	11 10 9	HNU	0.0	
45 - - 44 -	-		80	Silty sand, SM	GRAY	SFT	SAT	3334	HNU	0.1	
43 -	_		75	No Sample Recovered Silty sand, SM	GRAY	SFT	SAT	3455	HNU	0.0	Note at 7.3 to 7.5' bgs occurrance of green sand layer (75% sand/25% silt)
41 -	-			Silty sand, SM No Sample Recovered Silty sand, SM	GREEN GREEN	LSE	SAT	65	нип		·
40	- 9			No Sample Recovered				56	HNU		
39 -	- 10		45	Silty sand, SM	GREEN	LSE	SAT	5 10 8	HNU	0.0	

PROJECT : FT. MONMOUTH TOTAL DEPTH : 15.00

SITE NAME : CHARLES WOOD AREA LOGGER : P. THOMAS
BORING ID : CW2-MW33 DRILLING COMPANY : J.C. ANDERSON

NORTHING: 0.0000 estimated DRILLING RIG: MOBILE B-57
EASTING: 0.0000 estimated DATE STARTED: 12/15/94
ELEVATION: 49.180 surveyed DATE COMPLETED: 12/15/94

	ELEVATION	ОЕРТН	MATERIAL	* RECOVERY	CLASSIFICATION	COLOR	STRENGTH	MOISTURE	BLOW COUNT	FIELD INSTRUMENT READING	COMMENTS
					Silty sand, SM	GREEN	LSE	SAT		HNU 0.0	
	38 -	- 11			No Sample Recovered			٠			
	77 -	- 43									
	37 -	12			No Sample Recovered	1			3358		
1	•	4-7									
	36 -	- 13		•	·						
				-							
1	35 -	- 14			Interval Not Sampled						Augered interval.
	34 -	- 15									
		•									
	33	16									
		-									
	32	- 17								·	·
	+	· ·									
	31	18		,							
	+	•									,
	30	- 19			·						,
	-	•									
	29	20									

DATE: 06/20/95 \*\*\*\* Roy F. WESTON, Inc. LITHOLOGICAL DATA FOR - CLIENT ID: USAC2 \*\*\* PAGE: 15

BOREHOLE	SMP	LTH	LITHOLOGY	INT.	SAMPLING	SIZE	GRAVEL	SIZE	SAND	SILT	CLAY	ORGANIC	ROCK					STRAT .	
/WELL ID	NUM	NUM	(FT BGS		METHOD	GRAVEL	PCT.	SAND	PCT	PCT	PCT	PCT	TYPE	PLAST	SORT	STRENGTH	MOISTURE	UNIT	
CW2-MW33	1	1	0.00	0.60	SPS		0	FM	15	30	15	40		NON	POR	SFT	MST		
CW2-MW33	1	2	0.60	1.40	SPS	FM	10	MFC	60	20	. 5	5		NON	MOD	SFT	MST		
CW2-MW33	1	3	1.40	2.00	SPS		0		0	0	0	0							
CW2-MW33	2	1	2.00	3.20	SPS		0	MFC	60	. 35	5	0		NON	MOD	SFT	MST		
CW2-MW33	2	2	3.20	4.00	SPS		0		0	0	0	0							
CW2-MW33	3	1	4.00	5.60	SPS		0	MFC	55	35	10	0		NON	MOD	SFT	SAT		
CW2-MW33	3	2	5.60	6.00	SPS		0		0	0	0	0					•		
CW2-MW33	4	1	6.00	7.30	SPS		0	MFC	55	35	10	0		NON	MOD	SFT	SAT		
CW2-MW33	4	2	7.30	7.50	SPS		0	MF	75	25	0	0		NA	MOD	LSE	SAT		
CW2-MW33	4	3	7.50	8.00	SPS		0		0	0	0	0							
CW2-MW33	5	1	8.00	9.20	SPS	F	10	MF	70	20	0	0		NA	MOD	LSE	SAT		
CM5-WM33	5	2	9.20	10.00	SPS		0		0	0	0	0							
CW2-MW33	6	1	10.00	10.90	SPS	F	10	MF	70	20	0	0		NON	MOD	LSE	SAT		
CW2-MW33	6	2	10.90	12.00	SPS		0		0	0	0	0							
CW2-MW33	7	1	12.00	14.00	SPS		. 0		0	0	0	0							
CW2-MW33	8	1	14.00	15.00	NS		0		0	0	0	0		-					



## Appendix C

**Groundwater Laboratory Data Sheets** 

## FORT MONMOUTH ENVIRONMENTAL

## **TESTING LABORATORY**

**DIRECTORATE OF PUBLIC WORKS** 

PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



# FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/ Long Term Monitoring

#### **SAMPLE LOCATION AND IDENTIFICATION**

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
2472.03	MW-30	29-32594	04/24/97
2472.04	MW-31	29-32595	04/24/97
2472.05	MW-32	29-32596	04/24/97
2472.06	MW-33	29-32597	04/24/97

NJDEP Laboratory Certification # 13461

Report Date: 7 October, 1997

Daniel Wright Laboratory Director

## **METHODOLOGY SUMMARY**

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
METALS	
Aluminum	3111D
Antimony	3113B
Arsenic	3113B
Barium	3111D
Beryllium	3113B
Cadmium	3111B
Calcium	3111B
Chromium	3111D .
Cobalt	3113B
Copper	3111B
Iron	3111B
Lead	3113B
Magnesium	3111B
Manganese	3111B
Mercury	3112B
Nickel	3111B
Potassium	3111B
Selenium	3113B
Silver	3111B
Sodium	3111B
Thallium	3113B
Vanadium	3111D
Zinc	3111B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



# Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: J.	FAllon	Project No:				Analysis Parameters				Comments:			
Phone #:		Location:	). 1 ×			<b></b>							- Comments.
(√)DERA ( )OMA (	( )Other:	Location:	d dy 2700	CW-	- Y	TcL	TCL	Tel	TAL				
Samplers Name / Cor	mpany: RAY POGWI		• .	Sample		WA	BNA	POST	METALS				
Lab Sample I.D.	Sample Location	Date	Time		bottles	301	35	, –	MeTALS				Remarks / Preservation Method
2472	TRIP BLANK	4/24/97	0800	AQ	J	X							(VOA-HCE) (METALS - HWGZ)
	Field Blank		1000		5	X	×	×	X				All suples 16p7 & YOU
3	Bly 2700 M W30		1115		5	X	×	~	X				#2932594
4	B/2y2700 MW-31		1035		5	٧	.٧	X	>				#1932545
5	Bldy 1700 MW-31		1510		5	>	×	X	×				#2932546
6	B/Rg 2700 MW-33		1470		3	χ	×	×	ン と				#1937247
7	Field Dup			J.,	<b>.</b>	Χ_			Х				
	· · · · · · · · · · · · · · · · · · ·												
	· · · · · · · · · · · · · · · · · · ·			·									
		#											
· · · · · · · · · · · · · · · · · · ·													
													DTW - MW 29.8.85
Relinquished by (signature		Received by (s	ignature): Y. CL <i>MM</i>	'/	Reling	juished	by (sigr	nature):	·	Date/Ti	me:	Received by	(signature);
Relinquished by (signature	<del></del>	Received by (s	1000	11	Reling	wished	by (sigr	nature):		Date/Ti	me:	Received by	(signature):
Report Type: (_)Full, (_)R	eport Type: (_)Full, (_)Reduced, (_)Standard, (_)Screen / non-certified					Remar	ks:		, ,				
Turnaround time: (_)Stand	ard 4 wks, (_)Rush Days,	(_)ASAP Verb	al Hrs.										·

# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATASHEET

BLDG: 2700 MW#_30				
NJDEP ID# 293259	94			
NJDEP CERT# 134		•		
SAMPLING CONT		3		
SAMPLER RAY P		<b>:4</b>		
DATE: 04/27/97	WEATHER	R: SUNNY 4	0-50'S	
ELEVATION OF C	ASING SURVE	EY MARK		
DTW: 6.45				
DEPTH OF WELL:				
HEIGHT OF WATE				
11.45 X 0.65 X				
GAL OF H2O TO B			GAL	_
PURGE METHOD: PURGE RATE 0.3		.5 TO >5.0 G	PM) <u>PERISTALIC</u>	
Hnu READING N/				
min KEADING IV	A			
PURGE START TIN	ME: 9:15			
pH: 6.45		51.7	DEG F	٠.
-			CONDUCTIVITY	315 us/cm
			•	
PURGE END TIME	: 11:10			
pH: 6.32		51.5	DEG F	
DISSOLVED 02 2	2.8 PPM	SPECIFIC	CONDUCTIVITY	231 us/cm
DEPTH TO H2O AF	TER PURGING	G AND BEFO	ORE SAMPLING 6.	72 FT
sampling method: de				
TOTAL VOLUME I				
pH: 6.30	TEMP	51.2	DEG °C	
DISSOLVED O2 2	2.6 PPM	SPECIFIC	CONDUCTIVITY	230 us/cm
COMMENTS:				

# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATASHEET

BLDG: 2700 MW# 31 NJDEP ID# 2932595 NJDEP CERT# <u>13461</u> SAMPLING CONTRACTOR TVS SAMPLER RAY POGWIST DATE: 04/24/97 **WEATHER: RAIN 40-50'S** ELEVATION OF CASING SURVEY MARK DTW: 6.38 DEPTH OF WELL: 16.80 HEIGHT OF WATER 10.42  $10.42 \times 0.65 \times 3 = 20.32$ GAL OF H2O TO BE EVACUATED 20.32 GAL PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC PURGERATE 0.3 GPM Hnu READING N/A **PURGE START TIME: 9:25** pH: 6.30 TEMP 51.6 DEG F DISSOLVED O2 3.4 PPM SPECIFIC CONDUCTIVITY 552 us/cm PURGE END TIME: 10:30 pH: 6.35 TEMP 50.5 DEG F DISSOLVED 02 2.8 PPM SPECIFIC CONDUCTIVITY 510 us/cm DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 7.80 FT sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer TOTAL VOLUME PURGED: 20.4 GAL pH: 6.38 TEMP 50.4 DEG F DISSOLVED O2 2.7 PPM SPECIFIC CONDUCTIVITY 502 us/cm COMMENTS:

# U.S. ARMY FORT MOMOUTH MONITORING WELL SAMPLING DATASHEET

BLDG 2700 MW# 32 NJDEP ID# 29-32596 NJDEP CERT# 13461 SAMPLING CONTRATOR TVS SAMPLER RAY POGWIST
DATE 4/24/97 WEATHER PT. SUNNY 50'S
ELEVATION OF CASING SURVEY MARK  DTW 6.65 '  DEPTH OF WELL 16.80 '  HEIGHT OF WATER 10.15 '  10.15 X 0.65 X 3 = 19.79  GAL OF H2O TO BE EVACUATED 19.8 GAL  PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM)PERISTALIC_  PURGE RATE 0.3 GPM
PURGE START TIME 13:25 pH 6.91 TEMP 52.9 DEG F DISSOLVED O2 3.4 PPM SPECIFIC CONDUCTIVITY 490 us/cm
PURGE END TIME 15:00 pH 7.41 TEMP 52.6 DEG F DISSOLVED O2 3.0 PPM SPECIFIC CONDUCTIVITY 503 us/cm
DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 9.20 FT sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer TOTAL VOLUME PURGED: 19.0 GAL
pH 7.45 TEMP 52.5 DEG F DISSOLVED O2 2.8 PPM SPECIFIC CONDUCTIVITY 505 us/cm
COMMENTS:

# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATASHEET

MW# 33			
NJDEP ID# 2932597		•	
NJDEP CERT# 13461			
SAMPLING CONTRAC	CTOR TV	'S	
SAMPLER RAY POG		_	
DATE: 04/24/97	WEATH	ER: PT. SUN	NY 50'S
ELEVATION OF CASI	NG SURV	EY MARK	
DTW: 8.95			
DEPTH OF WELL: 16.			
HEIGHT OF WATER			
7.05 X 0.65 X3_	-		
GAL OF H2O TO BE E			BAL
PURGE METHOD: (FI		0.5 TO >5.0 (	GPM) <u>PERISTALIC</u>
PURGERATE 0.3	GPM		
Hnu READING N/A			
PURGE START TIME:	13-35		•
pH: 6.57		55.6	DEG F
<del>-</del>			CONDUCTIVITY 7.55 us/cm
DIDOE END TO OP. 1	. 20		
PURGE END TIME: 14 pH: 6.42		<i>EE E</i>	DEC E
-		55.5 SPECIFIC	DEG F CONDUCTIVITY 735 us/cm
D10001 VED 02 3.0	1 1 1/1	SI ECHIC	CONDUCTIVITY /33 us/cm
DEPTH TO H2O AFTE	R PURGIN	G AND BEF	ORE SAMPLING 9.10 FT
sampling method : dedic			
TOTAL VOLUME PUR			
			•
pH: 6.41		55.5	DEG F
DISSOLVED O2 2.9	PPM	SPECIFIC	CONDUCTIVITY 732 us/cm
COMMENTS:			
		<u> </u>	

## **Organic Data Qualifiers**

### Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

## Qualifiers are:

- J Estimated Value
- N Presumptive evidence of a compound
- E Concentration exceeds calibration range
- D Diluted sample
- A TIC is a suspected aldol condensation product

Data File Name V00731.D

Operator Paul Skelton

Date Acquired 05/ 2/97 10:54

Sample Name

Daily Blank

Field ID

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	ла
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	па
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	па
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	па
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene	<del>                                     </del>		not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene	<del>                                     </del>		not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
			· · · · · · · · · · · · · · · · · · ·			
541-73-1	1,3-Dichlorobenzene	Į		not detected	2.51 ua/L	600
541-73-1 106-46-7	1,3-Dichlorobenzene			not detected	2.51 ug/L 3.08 ug/L	600 74

Data File Name v00732.d

Operator

**Paul Skelton** Date Acquired 05/ 2/97 11:47 Sample Name Field ID

2472.01 Trip Blank

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	па
	Dichlorodifluoromethane			not detected	3.63 ug/L	па
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	па
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene		1	not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane		-	not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene		<del>                                     </del>	not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene		·	not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene		:	not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100_
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene		<u> </u>	not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichiorobenzene			not detected	2.75 ug/L	600

Data File Name v00733.d
Operator Paul Skelton

Operator Paul Skelton
Date Acquired 05/ 2/97 12:35

Skelton Field ID

Sample Name

2472.02 Field Blank

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane		·	not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene	<b>——</b>		not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	<del>                                     </del>		not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene	<del> </del>		not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	
108-05-4	Vinyl Acetate					70
78-93-3	2-Butanone			not detected	2.07 ug/L	ла
70-93-3		-		not detected	2.06 ug/L	300
67.66.0	cis-1,2-Dichloroethene	[	<u> </u>	not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene	ļ		not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane	ļ		not detected	1.27 ug/L	2
79-01-6	Trichloroethene	<u> </u>		not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane		<u> </u>	not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether	<u> </u>		not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone	<u> </u>		not detected	1.33 ug/L	400
108-88-3	Toluene	ļ		not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	па
79-00-5	1,1,2-Trichloroethane	<u> </u>		not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
<u>591-78-6</u>	2-Hexanone	<u> </u>		not detected	1.12 ug/L	па
126-48-1	Dibromochloromethane	<u> </u>		not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene	<u> </u>		not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene	i		not detected	2.75 ug/L	600

Data File Name v00734.d

Operator Paul Skelton

Date Acquired 05/ 2/97 13:18

Sample Name

2472.03

Field ID

Bldg 2700 MW30

Sample Multiplier

107028   Acrolein	CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107/131   Acytonitrile	107028	Acrolein	[		not detected		па
1634044   Methyl-tert-Butyl ether   not detected   12.50 ug/L   na   1634044   Methyl-tert-Butyl ether   not detected   1.25 ug/L   na   108203   Di-isopropyl ether   not detected   1.25 ug/L   na   Di-isopropyl ether   not detected   1.25 ug/L   na   108203   Di-isopropyl ether   not detected   1.25 ug/L   na   1.25 ug/L   n	107131	Acrylonitrile	<u> </u>				
1634044   Melthyl-lett-Butyl ether	75650						
108203   Di-Isopropyl ether	1634044						
Dichlorodifluoromethane   not detected   3.63 ug/L   na	<del></del>						
74-87-3	· · · · · · · · · · · · · · · · · · ·	4					
75-01-4	74-87-3						
74-83-9   Bromomethane			<del> </del>				
75-00-3			<b></b>		·		
75-69-4   Trichlorofluoromethane   not detected   1.31 ug/L   na   75-35-4   1,1-Dichloroethene   not detected   1.57 ug/L   2   2   67-84-1   Acetone   not detected   1.57 ug/L   700   75-15-0   Carbon Disulfide   not detected   1.57 ug/L   700   75-99-2   Methylene Chloride   not detected   1.66 ug/L   2   156-60-5   trans-1,2-Dichloroethene   not detected   0.50 ug/L   100   75-35-3   1,1-Dichloroethane   not detected   0.33 ug/L   70   108-05-4   Vinyl Acetate   not detected   0.33 ug/L   70   108-05-4   Vinyl Acetate   not detected   0.55 ug/L   na   0.51-2-Dichloroethene   not detected   0.55 ug/L   10   67-66-3   Chloroform   not detected   0.55 ug/L   10   67-66-3   Chloroform   not detected   0.43 ug/L   6   67-66-3   Chloroform   not detected   0.43 ug/L   6   75-55-6   1,1,1-Trichloroethane   not detected   0.43 ug/L   6   1,1,1-Trichloroethane   not detected   0.51 ug/L   30   1,1-Trichloroethane   not detected   0.51 ug/L   2   1   1   1   1   1   1   1   1   1							
76-35-4         1,1-Dichloroethene         not detected         0.74 ug/L         2           67-64-1         Acetone         not detected         1.57 ug/L         700           75-15-0         Carbon Disulfide         not detected         0.54 ug/L         na           75-09-2         Methylene Chloride         not detected         0.56 ug/L         100           156-60-5         trans-1,2-Dichloroethene         not detected         0.50 ug/L         100           75-35-3         1,1-Dichloroethane         not detected         2.07 ug/L         na           78-93-3         2-Butanone         not detected         2.06 ug/L         300           67-68-3         Chloroform         not detected         0.43 ug/L         6           75-55-6         1,1,1-Trichloroethane         not detected         0.81 ug/L         30           75-55-6         1,1,1-Trichloroethane         not detected         0.81 ug/L         30           75-55-6         1,1,1-Trichloroethane         not detected         0.51 ug/L         2           107-08-2         1,2-Dichloroethane         not detected         0.51 ug/L         1           107-08-2         1,2-Dichloroethane         not detected         0.94 ug/L         1					·		
67-64-1         Acetone         not detected         0.57 ug/L         700           75-16-0         Carbon Disulfide         not detected         0.54 ug/L         na           75-09-2         Methylene Chloride         not detected         0.50 ug/L         10           156-60-5         trans-1,2-Dichloroethene         not detected         0.50 ug/L         100           75-35-3         1,1-Dichloroethane         not detected         0.83 ug/L         70           108-05-4         Vinyl Acetate         not detected         2.07 ug/L         na           78-93-3         2-Butanone         not detected         0.85 ug/L         10           67-66-3         Chloroform         not detected         0.43 ug/L         10           67-66-3         Chloroform         not detected         0.43 ug/L         30           56-23-5         Carbon Tetrachloride         not detected         0.81 ug/L         30           107-06-2         1,2-Dichloroethane         not detected         0.51 ug/L         2           79-01-6         Trichloroethane         not detected         0.51 ug/L         2           79-01-6         Trichloroethane         not detected         0.78 ug/L         1           75-27-4					**************************************		
75-15-0         Carbon Disulfide         not detected         0.54 ug/L         na           75-09-2         Methylene Chloride         not detected         1.66 ug/L         2           156-60-5         trans-1,2-Dichloroethene         not detected         0.50 ug/L         10           75-35-3         1,1-Dichloroethane         not detected         2.07 ug/L         na           108-05-4         Vinyl Acetate         not detected         2.07 ug/L         na           78-93-3         2-Butanone         not detected         2.07 ug/L         na           67-66-3         Chloroform         not detected         0.65 ug/L         10           67-66-3         Chloroform         not detected         0.81 ug/L         6           75-55-6         1,1,1-Trichloroethane         not detected         0.81 ug/L         3           75-55-6         1,1,1-Trichloroethane         not detected         0.51 ug/L         2           71-43-2         Benzene         not detected         0.51 ug/L         1           107-06-2         1,2-Dichloroethane         not detected         0.78 ug/L         1           79-01-6         Trichloroethane         not detected         0.78 ug/L         1           78-75-27-4		<del></del>		<del> </del>			
75-09-2         Methylene Chloride         not detected         1.66 ug/L         2           156-60-5         trans-1,2-Dichloroethene         not detected         0.50 ug/L         100           75-35-3         1,1-Dichloroethane         not detected         0.83 ug/L         70           108-05-4         Vinyl Acetate         not detected         2.07 ug/L         na           78-93-3         2-Butanone         not detected         2.06 ug/L         300           cis-1,2-Dichloroethene         not detected         0.65 ug/L         10           67-68-3         Chloroform         not detected         0.81 ug/L         30           75-55-6         1,1,1-Trichloroethane         not detected         0.81 ug/L         30           56-23-5         Carbon Tetrachloride         not detected         0.81 ug/L         2           107-06-2         12.2-Dichloroethane         not detected         0.51 ug/L         2           107-06-2         12.2-Dichloroethene         not detected         0.94 ug/L         2           79-01-6         Trichloroethene         not detected         0.78 ug/L         1           75-27-4         Bornodichloromethane         not detected         0.78 ug/L         1           110-75-8 <td></td> <td></td> <td><del>                                     </del></td> <td></td> <td><del></del></td> <td></td> <td></td>			<del>                                     </del>		<del></del>		
156-60-5   trans-1,2-Dichloroethene   not detected   0.50 ug/L   100   75-35-3   1,1-Dichloroethane   not detected   0.83 ug/L   70   108-05-4   Vinyl Acetate   not detected   2.07 ug/L   na   78-93-3   2-Butanone   not detected   2.06 ug/L   300   cis-1,2-Dichloroethene   not detected   0.65 ug/L   10   67-66-3   Chloroform   not detected   0.43 ug/L   6   75-55-6   1,1,1-Trichloroethane   not detected   0.43 ug/L   30   56-23-5   Carbon Tetrachioride   not detected   0.41 ug/L   30   56-23-5   Carbon Tetrachioride   not detected   1.20 ug/L   2   71-43-2   Benzene   not detected   1.20 ug/L   2   10-706-2   1,2-Dichloroethane   not detected   0.51 ug/L   1   107-06-2   1,2-Dichloroethane   not detected   0.94 ug/L   1   78-87-5   1,2-Dichloroethane   not detected   0.78 ug/L   1   110-75-8   2-Chloroethyl vinyl ether   not detected   0.77 ug/L   1   110-75-8   2-Chloroethyl vinyl ether   not detected   0.60 ug/L   na   108-10-1   4-Methyl-2-Pentanone   not detected   1.33 ug/L   400   108-88-3   Toluene   not detected   1.33 ug/L   400   108-88-3   Toluene   not detected   1.43 ug/L   na   79-00-5   1,1,2-Trichloroethane   not detected   1.49 ug/L   3   127-18-4   Tetrachloroethane   not detected   1.49 ug/L   1   100-41-4   Ethylbenzene   not detected   1.14 ug/L   700   1330-20-7   m+p-Xylenes   not detected   1.57 ug/L   100   1330-20-7   na   106-46-7   1.40-101-001-001-001-001-001-001-001-001-0	<del></del>	······································		<del>                                     </del>			
75-35-3         1,1-Dichloroethane         not detected         0.83 ug/L         70           108-05-4         Vinyl Acetate         not detected         2.06 ug/L         na           78-93-3         2-Butanone         not detected         2.06 ug/L         300           67-66-3         Chloroform         not detected         0.65 ug/L         10           67-66-3         Chloroform         not detected         0.43 ug/L         6           75-55-6         1,1,1-Trichloroethane         not detected         0.81 ug/L         30           56-23-5         Carbon Tetrachloride         not detected         0.51 ug/L         2           71-43-2         Benzene         not detected         0.51 ug/L         1           107-06-2         1,2-Dichloroethane         not detected         0.51 ug/L         1           79-01-6         Trichloroethene         not detected         0.78 ug/L         1           78-87-5         1,2-Dichloropropane         not detected         0.78 ug/L         1           75-27-4         Bromodichloromethane         not detected         0.77 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 ug/L         na           1061-01-5 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
108-05-4		*			Y-1814-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		_
78-93-3         2-Butanone         not detected         2.06 ug/L         300           cis-1,2-Dichloroethene         not detected         0.65 ug/L         10           67-66-3         Chloroform         not detected         0.43 ug/L         6           75-55-6         1,1,1-Trichloroethane         not detected         0.81 ug/L         30           56-23-5         Carbon Tetrachloride         not detected         1.20 ug/L         2           71-43-2         Benzene         not detected         0.51 ug/L         1           107-06-2         1,2-Dichloroethane         not detected         0.27 ug/L         2           79-01-6         Trichloroethene         not detected         0.79 ug/L         1           78-87-5         1,2-Dichloropropane         not detected         0.79 ug/L         1           75-27-4         Bromodichloromethane         not detected         0.77 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 ug/L         na           10061-01-5         cis-1,3-Dichloropropene         not detected         1.05 ug/L         na           108-8-3         Toluene         not detected         0.73 ug/L         1000           10061-02-6				<del> </del>			
cis-1,2-Dichloroethene         not detected         0.65 ug/L         10           67-66-3         Chloroform         not detected         0.43 ug/L         6           75-55-6         1,1,1-Trichloroethane         not detected         0.81 ug/L         30           56-23-5         Carbon Tetrachloride         not detected         1.20 ug/L         2           71-43-2         Benzene         not detected         0.51 ug/L         1           107-06-2         1,2-Dichloroethane         not detected         0.94 ug/L         1           79-01-6         Trichloroethene         not detected         0.94 ug/L         1           78-87-5         1,2-Dichloropropane         not detected         0.78 ug/L         1           75-27-4         Bromodichloromethane         not detected         0.73 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 ug/L         na           1061-01-5         cis-1,3-Dichloropropene         not detected         1.05 ug/L         na           108-88-3         Toluene         not detected         1.33 ug/L         400           108-88-3         Toluene         not detected         1.43 ug/L         na           79-00-5         1,		<del>-  </del>	<del>                                     </del>				
67-66-3         Chloroform         not detected         0.43 ug/L         6           75-55-6         1,1,1-Trichloroethane         not detected         0.81 ug/L         30           56-23-5         Carbon Tetrachloride         not detected         1.20 ug/L         2           71-43-2         Benzene         not detected         0.51 ug/L         1           107-06-2         1,2-Dichloroethane         not detected         0.94 ug/L         1           78-87-5         1,2-Dichloropropane         not detected         0.77 ug/L         1           75-27-4         Bromodichloromethane         not detected         0.77 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         0.70 ug/L         na           1061-01-5         cis-1,3-Dichloropropene         not detected         1.05 ug/L         na           108-88-3         Toluene         not detected         0.73 ug/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           127-18-4         Tetrachloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethane         not detected         1.12 ug/L         na	1000			<del>                                     </del>			
75-55-6         1,1,1-Trichloroethane         not detected         0.81 ug/L         30           56-23-5         Carbon Tetrachloride         not detected         1.20 ug/L         2           71-43-2         Benzene         not detected         0.51 ug/L         1           107-06-2         1,2-Dichloroethane         not detected         1.27 ug/L         2           79-01-6         Trichloroethene         not detected         0.94 ug/L         1           78-87-5         1,2-Dichloropropane         not detected         0.78 ug/L         1           75-27-4         Bromodichloromethane         not detected         0.77 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 ug/L         na           10061-01-5         cis-1,3-Dichloropropene         not detected         0.60 ug/L         na           108-10-1         4-Methyl-2-Pentanone         not detected         1.33 ug/L         400           108-88-3         Toluene         not detected         0.73 ug/L         na           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           127-18-4         Tetrachloroethane         not detected         1.92 ug/L         na	67-66-3						
56-23-5         Carbon Tetrachloride         not detected         1.20 ug/L         2           71-43-2         Benzene         not detected         0.51 ug/L         1           107-06-2         1,2-Dichloroethane         not detected         1.27 ug/L         2           79-01-6         Trichloroethene         not detected         0.94 ug/L         1           78-87-5         1,2-Dichloropropane         not detected         0.78 ug/L         1           75-27-4         Bromodichloromethane         not detected         0.77 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         0.60 ug/L         na           10061-01-5         cis-1,3-Dichloropropene         not detected         0.60 ug/L         na           108-10-1         4-Methyl-2-Pentanone         not detected         0.60 ug/L         na           108-88-3         Toluene         not detected         0.73 ug/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethene         not detected         1.92 ug/L         1     <							
71-43-2         Benzene         not detected         0.51 ug/L         1           107-06-2         1,2-Dichloroethane         not detected         1.27 ug/L         2           79-01-6         Trichloroethene         not detected         0.94 ug/L         1           78-87-5         1,2-Dichloropropane         not detected         0.78 ug/L         1           75-27-4         Bromodichloromethane         not detected         0.77 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 ug/L         na           10061-01-5         cis-1,3-Dichloropropene         not detected         0.60 ug/L         na           108-10-1         4-Methyl-2-Pentanone         not detected         0.73 ug/L         1000           108-88-3         Toluene         not detected         0.73 ug/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         0.92 ug/L         3           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na							
107-06-2         1,2-Dichloroethane         not detected         1.27 µg/L         2           79-01-6         Trichloroethene         not detected         0.94 µg/L         1           78-87-5         1,2-Dichloropropane         not detected         0.78 µg/L         1           75-27-4         Bromodichloromethane         not detected         0.77 µg/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 µg/L         na           10061-01-5         cis-1,3-Dichloropropene         not detected         0.60 µg/L         na           108-10-1         4-Methyl-2-Pentanone         not detected         1.33 µg/L         400           108-88-3         Toluene         not detected         0.73 µg/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 µg/L         na           79-00-5         1,1,2-Trichloroethane         not detected         1.49 µg/L         3           127-18-4         Tetrachloroethene         not detected         0.92 µg/L         1           591-78-6         2-Hexanone         not detected         1.36 µg/L         10           108-90-7         Chlorobenzene         not detected         1.36 µg/L         4     <							
79-01-6         Trichloroethene         not detected         0.94 ug/L         1           78-87-5         1,2-Dichloropropane         not detected         0.78 ug/L         1           75-27-4         Bromodichloromethane         not detected         0.77 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 ug/L         na           10061-01-5         cis-1,3-Dichloropropene         not detected         0.60 ug/L         na           108-10-1         4-Methyl-2-Pentanone         not detected         1.33 ug/L         400           108-88-3         Toluene         not detected         0.73 ug/L         1000           10661-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700			<del></del>		<del></del>		
78-87-5         1,2-Dichloropropane         not detected         0.78 ug/L         1           75-27-4         Bromodichloromethane         not detected         0.77 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 ug/L         na           10061-01-5         cis-1,3-Dichloropropene         not detected         0.60 ug/L         na           108-10-1         4-Methyl-2-Pentanone         not detected         1.33 ug/L         400           108-88-3         Toluene         not detected         0.73 ug/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         1.57 ug/L         na							
75-27-4         Bromodichloromethane         not detected         0.77 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 ug/L         na           10061-01-5         cis-1,3-Dichloropropene         not detected         0.60 ug/L         na           108-10-1         4-Methyl-2-Pentanone         not detected         1.33 ug/L         400           108-88-3         Toluene         not detected         0.73 ug/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         1.36 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m-p-Xylenes         not detected         1.92 ug/L         na <td></td> <td></td> <td><del>                                     </del></td> <td></td> <td></td> <td></td> <td></td>			<del>                                     </del>				
110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 ug/L         na           10061-01-5         cis-1,3-Dichloropropene         not detected         0.60 ug/L         na           108-10-1         4-Methyl-2-Pentanone         not detected         1.33 ug/L         400           108-88-3         Toluene         not detected         0.73 ug/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         1.57 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100 <tr< td=""><td></td><td></td><td><del>                                     </del></td><td></td><td></td><td></td><td></td></tr<>			<del>                                     </del>				
10061-01-5         cis-1,3-Dichloropropene         not detected         0.60 ug/L         na           108-10-1         4-Methyl-2-Pentanone         not detected         1.33 ug/L         400           108-88-3         Toluene         not detected         0.73 ug/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         0.92 ug/L         1           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         mp-Xylenes         not detected         1.57 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.71 ug/L         2           541-7							
108-10-1         4-Methyl-2-Pentanone         not detected         1.33 ug/L         400           108-88-3         Toluene         not detected         0.73 ug/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         1.92 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2.51 ug/L         600           106-							
108-88-3         Toluene         not detected         0.73 ug/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         2.53 ug/L         na           130-20-7         o-Xylene         not detected         1.92 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7					· · · · · · · · · · · · · · · · · · ·		
10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         1.92 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74	<del></del>		<del> </del>				
79-00-5         1,1,2-Trichloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         2.53 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74							
127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         2.53 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74							
591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         2.53 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74			*****				
126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         2.53 ug/L         na           1330-20-7         o-Xylene         not detected         1.92 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74							
108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         2.53 ug/L         na           1330-20-7         o-Xylene         not detected         1.92 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74							
100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         2.53 ug/L         na           1330-20-7         o-Xylene         not detected         1.92 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74			<del> </del>	· · · · · · · · · · · · · · · · · · ·	<del></del>		
1330-20-7       m+p-Xylenes       not detected       2.53 ug/L       na         1330-20-7       o-Xylene       not detected       1.92 ug/L       na         100-42-5       Styrene       not detected       1.57 ug/L       100         75-25-2       Bromoform       not detected       1.68 ug/L       4         79-34-5       1,1,2,2-Tetrachloroethane       not detected       1.71 ug/L       2         541-73-1       1,3-Dichlorobenzene       not detected       2.51 ug/L       600         106-46-7       1,4-Dichlorobenzene       not detected       3.08 ug/L       74			<del> </del>	<u> </u>			
1330-20-7         o-Xylene         not detected         1.92 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74				' '			
100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74			<del> </del> -	<del>                                     </del>			
75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74			<u> </u>				
79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74			<del> </del>	<del>                                     </del>	<del></del>		
541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74			<del> </del>	<del>                                     </del>	<del></del>		
106-46-7 1,4-Dichlorobenzene not detected 3.08 ug/L 74			<del> </del>	<del>                                     </del>	<del></del>		
			<del>                                     </del>	<del>                                     </del>			
	<del></del>		<u> </u>		<del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>		

Data File Name v00735.d

**Paul Skelton** 

Sample Name

2472.04

Operator Date Acquired 05/ 2/97 14:06

Field ID

Bldg 2700 MW31

Sample Multiplier

CAS#_	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride		,	not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	па
75-69-4	Trichlorofluoromethane	_		not detected	1.31 ug/L	па
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride	<u> </u>		not detected	1.20 ug/L	2
71-43-2	Benzene		·	not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene		<del></del>	not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Data File Name v00736.d

Operator Paul Skelton

Date Acquired 05/ 2/97 15:11

Sample Name

2472.05

Field ID

Bldg 2700 MW32

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	. 10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	· 1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5 75-25-2	Styrene Bromoform			not detected	1.57 ug/L	100
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.68 ug/L	4
541-73-1	1,3-Dichlorobenzene		<u> </u>	not detected	1.71 ug/L	2
106-46-7	1,4-Dichlorobenzene			not detected	2.51 ug/L	600
95-50-1	1,2-Dichlorobenzene		<u> </u>	not detected	3.08 ug/L	74
J0-00-1	1,2-DIGHIOTODEHZEHE	نــــــا	<u> </u>	not detected	2.75 ug/L	600

Data File Name v00737.d

**Paul Skelton** 

Operator Date Acquired 05/ 2/97 16:00 Sample Name

2472.06

Field ID

Bldg 2700 MW33

Sample Multiplier

CAS#	Name	Name R.T. Response Amount		MDL	GW Criteria	
107028	Acrolein	<u> </u>		not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	ла
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	ла
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	па
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride	· · · · · · ·		not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone		<del>-</del>	not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide	<b></b>		not detected	0.54 ug/L	na
75-09-2	Methylene Chloride	<del>                                     </del>		not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane		<del></del>	not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone	<del></del>	<u> </u>	not detected	2.06 ug/L	300
1000	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform	<b></b>		not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.43 ug/L 0.81 ug/L	30
56-23-5	Carbon Tetrachloride	ļ		not detected		
71-43-2	Benzene			not detected	1.20 ug/L 0.51 ug/L	2
107-06-2	1,2-Dichloroethane	<del> </del>	-	not detected	1.27 ug/L	2
79-01-6	Trichloroethene	<del> </del>		not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane	<b></b>	<u> </u>	not detected	0.94 ug/L 0.78 ug/L	<u> </u>
75-27-4	Bromodichloromethane		<del>                                     </del>	not detected	0.78 ug/L 0.77 ug/L	<u>-</u>
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	na 400
108-88-3	Tojuene	<del>                                     </del>	l	not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane	-	<del></del>	not detected	1.49 ug/L	na 3
127-18-4	Tetrachloroethene		· · · · · · · · · · · · · · · · · · ·	not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	
126-48-1	Dibromochloromethane		<del> </del>	not detected	1.12 ug/L 1.36 ug/L	na 10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene		<del></del>	not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.52 ug/L 1.57 ug/L	na 100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene	_		not detected	3.08 ug/L	600 74
95-50-1	1,2-Dichlorobenzene	<del> </del> -	<del>                                     </del>	not detected		
	TIL-DIGITION ODGITZGITG	L	<u>.                                    </u>	not detected	2.75 ug/L	600

Data File Name v00738.d

Operator Paul Skelton

Date Acquired 05/ 2/97 16:46

Sample Name

2472.07

Field ID

**Field Duplicate** 

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile	•		not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene	·		not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	па
126-48-1	Dibromochloromethane	•		not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene		[	not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Lab Name:	FMETL				Project	<u></u>		_ Daily D	Idlik
NJDEP#	13461	Cas	e No.: 247	<b>'</b> 2	Locati	on	s	DG No.:	
Matrix: (soil/	water)	WATER			L	ab Sample	e ID:	Daily Blank	
Sample wt/vo	ol:	5.0	(g/ml) ML	-	L	ab File ID	:	V00731.D	
Level: (low/r	ned)	LOW	-			ate Recei	ved:	05/02/97	
% Moisture:	not dec.		<del>.</del>			ate Analy	zed:	05/02/97	
GC Column:	RTX-	0.2 ID: 0.2	5 (mm)			ilution Fa	ctor:	1.0	
Soil Extract \	/olume:		_ (uL)		S	oil Aliquot	Volu	me:	(uL)
Number TICs	s found:	0			ICENTR/ or ug/K	ATION UN g) UG			
CAS NO.		COMPOU	ND		-	RT	ES	ST. CONC.	Q

# VOLATILE ORGANICS ANALYSIS DATA SHEET

		TENTAT	VELY IDEN	TIFIED COMPOL	JNDS		
Lab Name:	FMETL			Project	B2700	Trip Blank	
NJDEP#	13461	Cas	se No.: 2472	2 Location	CW2 S	DG No.:	
Matrix: (soil/v	vater)	WATER	_	Lat	Sample ID:	2472.01	
Sample wt/vo	ol:	5.0	(g/ml) ML	Lat	File ID:	V00732.D	
Level: (low/n	ned)	LOW	, -	Dat	te Received:	04/24/97	
% Moisture: r	not dec.		····	Daf	te Analyzed:	05/02/97	
GC Column:	RTX-5	02 ID: <u>0.2</u>	25 (mm)	Dilu	ution Factor:	1.0	
Soil Extract V	/olume:		(uL)	Soi	l Aliquot Volu	ime:	(uL)

**CONCENTRATION UNITS:** 

FIELD ID

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO. COMPOUND RT EST. CONC. Q

FIEL	D	ID
------	---	----

Lab Name:	FMETL		Project	B2700		Field E	Blank
NJDEP#	13461	Case No.: 2472	2 Location	CW2	s	DG No.:	
Matrix: (soil/	water)	WATER	Lal	Sample	D:	2472.02	
Sample wt/v	ol:	5.0 (g/ml) ML	Lai	File ID:		V00733.D	
Level: (low/r	med)	LOW	Da	te Receiv	/ed:	04/24/97	
% Moisture:	not dec.		Da	te Analyz	ed:	05/02/97	
GC Column:	RTX-	502 ID: <u>0.25</u> (mm)	Dilu	ution Fac	tor:	1.0	
Soil Extract	Volume:	(uL)	Soi	l Aliquot	Volu	me:	(uL)
Number TIC	e found:	0	CONCENTRAT (ug/L or ug/Kg)			<u></u>	
TAUTIDEI TIO	a loulle.				1		<del></del>
CAS NO.		COMPOUND		RT	ES	ST. CONC.	Q

F	IEL	D.	ID

Lab Name:	FMETL		Project B2700	MW30
NJDEP#	13461	Case No.: 2472	Location CW2 SDG	6 No.:
Matrix: (soil/	water)	WATER	Lab Sample ID: 24	172.03
Sample wt/v	ol:	5.0 (g/mi) ML	Lab File ID:	00734.D
Level: (low/	med)	LOW	Date Received: 04	1/24/97
% Moisture:	not dec.		Date Analyzed: 05	5/02/97
GC Column:	RTX-	502 ID: 0.25 (mm)	Dilution Factor: 1.	0
Soil Extract	Volume:	(uL)	Soil Aliquot Volume	o: (uL)
Number TIC	s found:		NCENTRATION UNITS: /L or ug/Kg) <u>UG/L</u>	_
CAS NO.		COMPOUND	RT EST.	CONC. Q
1. 00106	6-40-6	Silanol, trimethyl-	13.91	31 JN

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

								NAV.	N31
Lab Name:	FMETL			F	roject	B2700			1431
NJDEP#	13461	Ca	se No.: <u>247</u>	2	Location	n CW2	_ s	DG No.:	·
Matrix: (soil/	water)	WATER	_		Lai	b Sample	ID:	2472.04	
Sample wt/v	ol:	5.0	(g/ml) ML		Lai	b File ID:		V00735.D	
Level: (low/	med)	LOW	<u>.</u>		Da	te Receiv	ved:	04/24/97	
% Moisture:	not dec.				Da	te Analyz	zed:	05/02/97	<u>-</u>
GC Column:	RTX-	502 ID: 0.2	2 <u>5</u> (mm)		Dil	ution Fac	tor:	1.0	
Soil Extract	Volume:		_ (uL)		So	il Aliquot	Volu	me:	(uL)
Number TIC	s found:	1			ENTRAT or ug/Kg)				
CAS NO.		COMPOL	JND			RT	ES	ST. CONC.	Q
1. 00106	6-40-6	Silanol, trir	nethyl-			13.92		12	JN

F	IEL	_D	10
۲	IEL	-IJ	IL

Lab Name:	FMETL		Project B270	00	MW3	2
NJDEP#	13461	Case No.: 2472	Location CW	/2 SI	DG No.:	<del></del>
Matrix: (soil/	water)	WATER	Lab Sam	ple ID:	2472.05	
Sample wt/ve	ol:	5.0 (g/ml) ML	Lab File	ID:	V00736.D	
Level: (low/r	med)	LOW	Date Red	eived:	04/24/97	
% Moisture:	not dec.		Date Ana	lyzed:	05/02/97	
GC Column:	RTX-	502 ID: <u>0.25</u> (mm)	Dilution F	actor:	1.0	
Soil Extract \	√olume:	(uL)	Soil Aliqu	ot Volun	ne:	(uL)
Number TIC	s found:		DNCENTRATION (g/L or ug/Kg)	JNITS: JG/L	···········	
CAS NO.		COMPOUND	RT	ES.	T. CONC.	Q
1 00106	6-40-6	Silanol trimethyl-	13.0	1	4	INI

Lab Name:	FMETL		Project	B2700		MV	W33
NJDEP#	13461	Case No.: 2472	Location	CW2	S	DG No.:	
Matrix: (soil/	water)	WATER	Lab	Sample	ID:	2472.06	
Sample wt/v	ol:	5.0 (g/ml) ML	Lab	File ID:		V00737.D	
Level: (low/r	med)	LOW	Dat	e Receiv	ed:	04/24/97	
% Moisture:	not dec.		Dat	e Analyz	ed:	05/02/97	<del></del>
GC Column:	RTX-	502 ID: <u>0.25</u> (mm)	Dilu	ition Fact	or:	1.0	
Soil Extract \	Volume:	(uL)	Soil	Aliquot \	∕olu	me:	(uL.)
Number TIC	s found:		CONCENTRAT (ug/L or ug/Kg)	ION UNI			
CAS NO.		COMPOUND		RT	ES	T. CONC.	Q
1. 00106	6-40-6	Silanol, trimethyl-		13 91		30	JN

)

Lab Name:	FMETL		Project	B2700		Field	Dup
NJDEP#	13461	Case No.: 2472	Location	n CW2	SI	DG No.:	
Matrix: (soil/	water)	WATER	Lai	b Sample	D:	2472.07	
Sample wt/v	ol:	5.0 (g/ml) ML	Lal	File ID:		V00738.D	
Level: (low/r	med)	LOW	Da	te Recei	ved:	04/24/97	
% Moisture:	not dec.		Da	te Analyz	zed:	05/02/97	
GC Column:	RTX-	502 ID: <u>0.25</u> (mm)	Dile	ution Fac	tor:	1.0	
Soil Extract \	Volume:	(uL)	So	il Aliquot	Volur	ne:	(uL)
Number TIC	s found:		CONCENTRAT (ug/L or ug/Kg)				
CAS NO.		COMPOUND		RT	ES	T. CONC.	Q
1, 00106	6-40-6	Silanol, trimethyl-		13.92		5	JN

## **Organic Data Qualifiers**

### Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

## Qualifiers are:

- J Estimated Value
- N Presumptive evidence of a compound
- E Concentration exceeds calibration range
- D Diluted sample
- A TIC is a suspected aldol condensation product

Data File Name bn0172.d

Operator Date Acquired

**Paul Skelton** 05/21/97 15:57 Sample Name

Ext Blank 04/28/97

Field ID

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL		GW Criteria
110-86-1	Pyridine			not detected	5.00	ug/L	Ĭ .
62-75-9	N-nitroso-dimethylamine			not detected	0.94	ug/L	20
62-53-3	Aniline			not detected	0.15	ug/L	
108-95-2	Phenol			not detected		ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected		ug/L	10
95-57-8	2-Chlorophenol			not detected		ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected		ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected		ug/L	75
100-51-6	Benzyl alcohol			not detected		ug/L	
95-50-1	1,2-Dichlorobenzene			not detected		ug/L	600
	2-Methylphenol			not detected		ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected		ug/L	300
	4-Methylphenol		·····	not detected		ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected		ug/L	20
67-72-1	Hexachloroethane			not detected		ug/L	10
98-95-3	Nitrobenzene			not detected		ug/L	10
78-59-1	Isophorone			not detected		ug/L	100
88-75-5	2-Nitrophenol			not detected		ug/L	100
105-67-9	2,4-Dimethylphenol			not detected		ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected		ug/L	100
120-83-2	2,4-Dichlorophenol			not detected		ug/L	20
65-85-0	Benzoic Acid			not detected		ug/L	- 20
120-82-1	1,2,4-Trichlorobenzene			not detected		ug/L	9
91-20-3	Naphthalene			not detected		ug/L	
106-47-8	4-Chloroaniline			not detected		ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38		1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18		
91-57-6	2-Methylnaphthalene			not detected		ug/L	
77-47-4	Hexachlorocyclopentadiene	·		not detected		ug/L	50
88-06-2	2,4,6-Trichlorophenol	•		not detected	0.42		20
	2,4,5-Trichlorophenol	,		not detected	0.31		700
91-58-7	2-Chloronaphthalene			not detected	0.32		
88-74-4	2-Nitroaniline			not detected	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	0.18	ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected		ug/L	
99-09-2	3-Nitroaniline			not detected		ug/L	
83-32-9	Acenaphthene			not detected		ug/L	400
51-28-5	2,4-Dinitrophenol			not detected		ug/L	40
132-64-9	Dibenzofuran			not detected		ug/L	
100-02-7	4-Nitrophenol			not detected		ug/L	
121-14-2	2,4-Dinitrotoluene			not detected		ug/L	10

84-66-2	Diethylphthalate	not detected	0.82 ug/L	5000
86-73-7	Fluorene	not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether	not detected	0.31 ug/L	
100-01-6	4-Nitroaniline	not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	0.23 ug/L	20
103-33-3	Azobenzene	not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene	not detected	0.82 ug/L	10
87-86-5	Pentachiorophenol	not detected	1.08 ug/L	1
85-01-8	Phenanthrene	not detected	0.18 ug/L	
120-12-7	Anthracene	not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	not detected	0.23 ug/L	900
206-44-0	Fluoranthene	not detected	0.41 ug/L	300
92-87-5	Benzidine	not detected	1.45 ug/L	50
129-00-0	Pyrene	not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate	not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene	not detected	0:22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine	not detected	0.46 ug/L	60
218-01-9	Chrysene	not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate	not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene	not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene	not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene	not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene	not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene	not detected	0.40 ug/L	

Data File Name bn0184.d

Date Acquired

Operator

Paul Skelton

05/22/97 01:01

Sample Name

2472.02

Field ID

Field Blank

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL		GW Criteria
110-86-1	Pyridine			not detected		ug/L	
62-75-9	N-nitroso-dimethylamine			not detected		ug/L	20
62-53-3	Aniline			not detected		ug/L	
108-95-2	Phenol			not detected		ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected		ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18	ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15	ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23	ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16	ug/L	600
	2-Methylphenol			not detected	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether		1	not detected		ug/L	300
	4-Methylphenol			not detected		ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36	ug/L	20
67-72-1	Hexachloroethane			not detected		ug/L	10
98-95-3	Nitrobenzene			not detected		ug/L	10
78-59-1	Isophorone			not detected		ug/L	100
88-75-5	2-Nitrophenol			not detected		ug/L	
105-67-9	2,4-Dimethylphenol			not detected		ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected		ug/L	
120-83-2	2,4-Dichlorophenol			not detected		ug/L	20
65-85-0	Benzoic Acid			not detected		ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected		ug/L	9
91-20-3	Naphthalene			not detected		ug/L	
106-47-8	4-Chloroaniline			not detected		ug/L	
87-68-3	Hexachlorobutadiene			not detected		ug/L	1
59-50-7	4-Chloro-3-methylphenol		<u> </u>	not detected		ug/L	
91-57-6	2-Methylnaphthalene			not detected		ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected		ug/L	50
88-06-2	2,4,6-Trichlorophenol	·		not detected	0.42	ua/L	20
	2,4,5-Trichlorophenol	-		not detected	0.31	ug/L	700
91-58-7	2-Chloronaphthalene			not detected		ug/L	
88-74-4	2-Nitroaniline			not detected	0.21		
131-11-3	Dimethylphthalate			not detected	0.18		7000
208-96-8	Acenaphthylene	ii ii		not detected		ug/L	
606-20-2	2,6-Dinitrotoluene			not detected		ug/L	
99-09-2	3-Nitroaniline			not detected		ug/L	
83-32-9	Acenaphthene		i	not detected		ug/L	400
51-28-5	2,4-Dinitrophenol			not detected		ug/L	40
132-64-9	Dibenzofuran			not detected		ug/L	
100-02-7	4-Nitrophenol			not detected		ug/L	-
121-14-2	2,4-Dinitrotoluene			not detected		ug/L	10

84-66-2	Diethylphthalate	not detected	0.82	ug/L	5000
86-73-7	Fluorene	not detected	0.29 t		300
7005-72-3	4-Chlorophenyl-phenylether	not detected	0.31 เ		
100-01-6	4-Nitroaniline	not detected	0.90 L		
534-52-1	4,6-Dinitro-2-methylphenol	not detected	0.44 L		
86-30-6	n-Nitrosodiphenylamine	not detected	0.23 u		20
103-33-3	Azobenzene	not detected	0.80 u	ıg/L	
101-55-3	4-Bromophenyl-phenylether	not detected	0.55 u		
118-74-1	Hexachlorobenzene	not detected	0.82 น		10
87-86-5	Pentachlorophenol	not detected	1.08 u	ıg/L	1
85-01-8	Phenanthrene	not detected	0.18 u	ıg/L	
120-12-7	Anthracene	not detected	0.19 u	ıg/L	2000
84-74-2	Di-n-butylphthalate	not detected	0.23 น	ıg/L	900
206-44-0	Fluoranthene	not detected	0.41 u	ıg/L	300
92-87-5	Benzidine	not detected	1.45 u	ıg/L	50
129-00-0	Pyrene	not detected	0.32 u	ıg/L	200
85-68-7	Butylbenzylphthalate	not detected	0.47 u	ıg/L	100
56-55-3	Benzo[a]anthracene	not detected	0.22 u	ıg/L	10
91-94-1	3,3'-Dichlorobenzidine	not detected	0.46 u	ıg/L	60
218-01-9	Chrysene	not detected	0.20 น		20
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	0.51 u		30
117-84-0	Di-n-octylphthalate	not detected	0.82 u		100
205-99-2	Benzo[b]fluoranthene	not detected	0.37 u		10
207-08-9	Benzo[k]fluoranthene	not detected	0.32 u	ıg/L	2
50-32-8	Benzo[a]pyrene	not detected	0.31 u	ıg/L	20
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	0.79 u	ıg/L	20
53-70-3	Dibenz[a,h]anthracene	not detected	0.28 u	ıg/L	20
191-24-2	Benzo[g,h,i]perylene	not detected	0.40 u	ıg/L	

Data File Name bn0185.d

Date Acquired

Operator

**Paul Skelton** 05/22/97 01:46 Sample Name

2472.03

Field ID

MW30

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL		GW Criteria
110-86-1	Pyridine			not detected	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected		ug/L	20
62-53-3	Aniline			not detected	0.15	ug/L	
108-95-2	Phenol			not detected		ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected		ug/L	10
95-57-8	2-Chlorophenol			not detected		ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected		ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected		ug/L	75
100-51-6	Benzyl alcohol			not detected		ug/L	
95-50-1	1,2-Dichlorobenzene			not detected		ug/L	600
	2-Methylphenol			not detected		ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected		ug/L	300
	4-Methylphenol			not detected	0.14		
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36		20
67-72-1	Hexachloroethane			not detected	0.33		10
98-95-3	Nitrobenzene			not detected	0.46		10
78-59-1	Isophorone			not detected	0.35		100
88-75-5	2-Nitrophenol			not detected	0.23		
105-67-9	2,4-Dimethylphenol			not detected		ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46		
120-83-2	2,4-Dichlorophenol			not detected	0.12		20
65-85-0	Benzoic Acid			not detected	0.26		
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25		9
91-20-3	Naphthalene	_		not detected	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	0.19		
87-68-3	Hexachlorobutadiene			not detected	0.38		1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18		
91-57-6	2-Methylnaphthalene			not detected	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50	ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42	ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31	ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	0.21	ug/L	
131-11-3	Dimethylphthalate			not detected	0.18	ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected		ug/L	
99-09-2	3-Nitroaniline			not detected		ug/L	
83-32-9	Acenaphthene			not detected	0.26		400
51-28-5	2,4-Dinitrophenol			not detected	0.69	ug/L	40
132-64-9	Dibenzofuran			not detected	0.32		
100-02-7	4-Nitrophenol			not detected		ug/L	
121-14-2	2,4-Dinitrotoluene			not detected		ug/L	10

84-66-2	Diethylphthalate	not detected	0.82 ug/L	5000
86-73-7	Fluorene	not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether	not detected	0.31 ug/L	300
100-01-6	4-Nitroaniline	not detected	0.90 ug/L	<del> </del>
534-52-1	4,6-Dinitro-2-methylphenol	not detected	0.44 ug/L	<del> </del>
86-30-6	n-Nitrosodiphenylamine	not detected	0.23 ug/L	20
103-33-3	Azobenzene	not detected	0.80 ug/L	<del> </del> _
101-55-3	4-Bromophenyl-phenylether	not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene	not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol	not detected	1.08 ug/L	1
85-01-8	Phenanthrene	not detected	0.18 ug/L	
120-12-7	Anthracene	not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	not detected	0.23 ug/L	900
206-44-0	Fluoranthene	not detected	0.41 ug/L	300
92-87-5	Benzidine	not detected	1.45 ug/L	50
129-00-0	Pyrene	not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate	not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene	not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine	not detected	0.46 ug/L	60
218-01-9	Chrysene	not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate	not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene	not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene	not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene	not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene	not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene	not detected	0.40 ug/L	

Data File Name bn0186.d

Date Acquired

Operator

**Paul Skelton** 05/22/97 02:30 Sample Name

2472.04

Field ID

MW31

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL		GW Criteria
110-86-1	Pyridine			not detected	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94	ug/L	20
62-53-3	Aniline			not detected	0.15	ug/L	
108-95-2	Phenol			not detected	0.47	ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48	ug/L	10
95-57-8	2-Chlorophenol			not detected		ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected		ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected		ug/L	75
100-51-6	Benzyl alcohol			not detected		ug/L	
95-50-1	1,2-Dichlorobenzene			not detected		ug/L	600
	2-Methylphenol			not detected		ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected		ug/L	300
	4-Methylphenol			not detected		ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected		ug/L	20
67-72-1	Hexachloroethane			not detected		ug/L	10
98-95-3	Nitrobenzene			not detected		ug/L	10
78-59-1	Isophorone			not detected		ug/L	100
88-75-5	2-Nitrophenol			not detected		ug/L	
105-67-9	2,4-Dimethylphenol			not detected		ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected		ug/L	
120-83-2	2,4-Dichlorophenol			not detected		ug/L	20
65-85-0	Benzoic Acid			not detected		ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected		ug/L	9
91-20-3	Naphthalene			not detected		ug/L	
106-47-8	4-Chloroaniline		-	not detected		ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38	ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18	ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50	ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42	ug/L	20
	2,4,5-Trichlorophenol			not detected		ug/L	700
91-58-7	2-Chioronaphthalene			not detected	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected		ug/L	
131-11-3	Dimethylphthalate			not detected	0.18	ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected		ug/L	
99-09-2	3-Nitroaniline			not detected	0.26	ug/L	· .
83-32-9	Acenaphthene			not detected	0.26	ug/L	400
51-28-5	2,4-Dinitrophenol			not detected		ug/L	40
132-64-9	Dibenzofuran			not detected		ug/L	
100-02-7	4-Nitrophenol			not detected		ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36	ug/L	10

84-66-2	Diethylphthalate	not detected	0.82	ua/L	5000
86-73-7	Fluorene	not detected	0.29		300
7005-72-3	4-Chlorophenyl-phenylether	not detected		ug/L	- 500
100-01-6	4-Nitroaniline	not detected		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected		ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	0.23		20
103-33-3	Azobenzene	not detected	0.80		
101-55-3	4-Bromophenyl-phenylether	not detected	0.55		
118-74-1	Hexachlorobenzene	not detected	0.82		10
87-86-5	Pentachlorophenol	not detected	1.08	ug/L	1
85-01-8	Phenanthrene	not detected	0.18	ug/L	
120-12-7	Anthracene	not detected	0.19	ug/L	2000
84-74-2	Di-n-butylphthalate	not detected	0.23	ug/L	900
206-44-0	Fluoranthene	not detected	0.41	ug/L	300
92-87-5	Benzidine	not detected	1.45	ug/L	. 50
129-00-0	Pyrene	not detected	0.32	ug/L	200
85-68-7	Butylbenzylphthalate	not detected	0.47	ug/L	100
56-55-3	Benzo[a]anthracene	not detected	0.22	ug/L	10
91-94-1	3,3'-Dichlorobenzidine	not detected	0.46	ug/L	60
218-01-9	Chrysene	not detected	0.20	ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	0.51	ug/L	30
117-84-0	Di-n-octylphthalate	not detected	0.82		100
205-99-2	Benzo[b]fluoranthene	not detected	0.37		10
207-08-9	Benzo[k]fluoranthene	not detected	0.32	ug/L	2
50-32-8	Benzo[a]pyrene	not detected	0.31	ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	0.79		20
53-70-3	Dibenz[a,h]anthracene	not detected	0.28		20
191-24-2	Benzo[g,h,i]perylene	not detected	0.40	ug/L	

Data File Name bn0189.d

Date Acquired

Operator

Paul Skelton -05/22/97 04:42

Sample Name

2472.05

Field ID

MW32

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL		GW Criteria
110-86-1	Pyridine			not detected	5.00 (	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94	ug/L	20
62-53-3	Aniline			not detected	0.15	ug/L	
108-95-2	Phenol			not detected	0.47		4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48	ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18	ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 i		600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 เ		75
100-51-6	Benzyl alcohol			not detected	0.18 ι	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 เ	ug/L	600
	2-Methylphenol			not detected	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 เ		300
	4-Methylphenol			not detected	0.14 ι		
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 เ	ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ι	ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 เ		10
78-59-1	Isophorone			not detected	0.35 ι		100
88-75-5	2-Nitrophenol			not detected	0.23		,,,,,
105-67-9	2,4-Dimethylphenol			not detected	0.27		100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46		
120-83-2	2,4-Dichlorophenol			not detected	0.12 (		20
65-85-0	Benzoic Acid			not detected	0.26 ι		
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 (		9
91-20-3	Naphthalene			not detected	0.25 t		
106-47-8	4-Chloroaniline			not detected	0.19 เ		
87-68-3	Hexachlorobutadiene			not detected	0.38 i		1
59-50-7.	4-Chloro-3-methylphenol			not detected	0.18 ι		
91-57-6	2-Methylnaphthalene			not detected	0.16 เ	ıg/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 L		50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ι		20
	2,4,5-Trichlorophenol			not detected	0.31 ι		700
91-58-7	2-Chloronaphthalene			not detected	0.32 ι		
88-74-4	2-Nitroaniline			not detected	0.21 L		
131-11-3	Dimethylphthalate			not detected	0.18 เ		7000
208-96-8	Acenaphthylene	-		not detected	0.19 (		
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ι		
99-09-2	3-Nitroaniline	-		not detected	0.26 ι		- <u>-</u>
83-32-9	Acenaphthene			not detected	0.26		400
51-28-5	2,4-Dinitrophenol			not detected	0.69 เ	ug/L	40
132-64-9	Dibenzofuran			not detected	0.32		<del>-</del> -
100-02-7	4-Nitrophenol			not detected	0.27 ι		
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ι		10

84-66-2	Diethylphthalate			not detected	0.82	ug/L	5000
86-73-7	Fluorene			not detected		ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected		ug/L	- 000
100-01-6	4-Nitroaniline	1		not detected		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected		ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23		20
103-33-3	Azobenzene			not detected	0.80		
101-55-3	4-Bromophenyl-phenylether			not detected	0.55		
118-74-1	Hexachlorobenzene			not detected	0.82		10
87-86-5	Pentachlorophenol			not detected	1.08		1
85-01-8	Phenanthrene			not detected	0.18		
120-12-7	Anthracene			not detected	0.19		2000
84-74-2	Di-n-butylphthalate			not detected	0.23		900
206-44-0	Fluoranthene			not detected	0.41		300
92-87-5	Benzidine			not detected	1.45	ug/L	50
129-00-0	Pyrene			not detected	0.32	ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47		100
56-55-3	Benzo[a]anthracene			not detected	0.22		10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46		60
218-01-9	Chrysene			not detected	0.20		20
117-81-7	bis(2-Ethylhexyl)phthalate	25.52	56669	1.54 ug/L	0.51	ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82	ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37		10
207-08-9	Benzo[k]fluoranthene			not detected	0.32		2
50-32-8	Benzo[a]pyrene			not detected	0.31		20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79		20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28		20
191-24-2	Benzo[g,h,i]perylene	[T		not detected	0.40		

Data File Name bn0188.d

Date Acquired

Operator

**Paul Skelton** 05/22/97 03:58 Sample Name

2472.06

Field ID

MW33

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL		GW Criteria
110-86-1	Pyridine	ļ		not detected	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94		20
62-53-3	Aniline			not detected	0.15		
108-95-2	Phenol			not detected	0.47		4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48		10
95-57-8	2-Chiorophenol			not detected	0.18		40
541-73-1	1,3-Dichlorobenzene			not detected	0.15		600
106-46-7	1,4-Dichlorobenzene			not detected	0.23		75
100-51-6	Benzyl alcohol			not detected	0.18		
95-50-1	1,2-Dichlorobenzene			not detected	0.16		600
	2-Methylphenol			not detected	0.14		
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61		300
	4-Methylphenol			not detected	0.14		
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36		20
67-72-1	Hexachloroethane			not detected	0.33		10
98-95-3	Nitrobenzene			not detected	0.46		10
78-59-1	Isophorone			not detected	0.35	ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23		100
105-67-9	2,4-Dimethylphenol			not detected	0.27		100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46		100
120-83-2	2,4-Dichlorophenol			not detected	0.12		20
65-85-0	Benzoic Acid		-	not detected	0.26		
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25		9
91-20-3	Naphthalene			not detected	0.25		
106-47-8	4-Chloroaniline			not detected	0.19		
87-68-3	Hexachlorobutadiene			not detected	0.38		1
59-50-7	4-Chloro-3-methylphenol	·		not detected	0.18		
91-57-6	2-Methylnaphthalene			not detected	0.16		
77-47-4	Hexachlorocyclopentadiene			not detected	1.50		50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42		20
	2,4,5-Trichlorophenol			not detected	0.31		700
91-58-7	2-Chioronaphthalene			not detected	0.32	ug/L	
88-74-4	2-Nitroaniline			not detected	0.21		
131-11-3	Dimethylphthalate			not detected	0.18	ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19		
606-20-2	2,6-Dinitrotoluene			not detected	0.31		
99-09-2	3-Nitroaniline			not detected	0.26		
83-32-9	Acenaphthene			not detected	0.26	ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69		40
132-64-9	Dibenzofuran			not detected	0.32		
100-02-7	4-Nitrophenol			not detected	0.27		
121-14-2	2,4-Dinitrotoluene			not detected	0.36		10

04.66.0	Diathylabeta		T	
84-66-2	Diethylphthalate	not detected	0.82 ug/L	5000
86-73-7	Fluorene	not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether	not detected	0.31 ug/L	
100-01-6	4-Nitroaniline	not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	0.23 ug/L	20
103-33-3	Azobenzene	not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene	not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol	not detected	1.08 ug/L	1
85-01-8	Phenanthrene	not detected	0.18 ug/L	· · · · · · · · · · · · · · · · · · ·
120-12-7	Anthracene	not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	not detected	0.23 ug/L	900
206-44-0	Fluoranthene	not detected	0.41 ug/L	300
92-87-5	Benzidine	not detected	1.45 ug/L	50
129-00-0	Pyrene ·	not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate	not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene	not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine	not detected	0.46 ug/L	60
218-01-9	Chrysene	not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate	not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene	not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene	not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene	not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene	not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene	not detected	0.40 ug/L	

## 1F SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EXTILE OROUGHOU AMALTOID DATA OFFICE	111111
NITATIVELY IDENTIFIED COMBOLINDS	

Lab Name:	FMETL			Contrac	t:		EXI. DIAI	1K
Cert. No.	13461	Case	No.: 2472	Projec	ot	SDO	DG.	
Matrix: (soil/	water)	WATER		£	ab Sample	D: <u>E</u>	xt Blank 04/2	<u>8</u>
Sample wt/v	ol:	1000	(g/ml) ML	L	.ab File ID:	В	N0172.D	_
Level: (low/r	med)	LOW			Date Receive	ed: <u>0</u>	4/28/97	<del></del>
% Moisture:		decan	ited: (Y/N)	N C	Date Analyze	ed: 0	5/21/97	
Concentrate	d Extract	Volume: 1	(uL)		Dilution Facto	or: <u>1</u>	.0	
Injection Vol	ume: <u>1.</u>	0 (uL)		8	Soil Aliquot V	olum(	e: <u>1</u>	(uL)
GPC Cleanu	p: (Y/N)	N pl	H: <u>7</u>					
				CONCE	NTRATION (	JNITS	<b>3</b> :	
Number TIC	s found:	1		(ug/L or u	ıg/Kg) <u>l</u>	JG/L		
CAS NUMI	BER	COMPOUN	D NAME		RT	EST.	CONC.	Q
1		unknown			7 05		43	

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIEI	LD	ID.

Lab Name:	FMET			Locatio	n:	2700		Field B	lank
Cert. No.	13461	Ca	Project CW2			SI	SDG.		
Matrix: (soil/	water)	WATER	<u> </u>		Lab	Sample	ID:	2472.02	
Sample wt/v	ol:	1000	(g/ml) ML		Lab	File ID:		BN0184.D	
Level: (low/i	med)	LOW	_		Date	Receive	ed:	04/24/97	
% Moisture:		dec	anted: (Y/N)	N	Date	Analyze	ed:	05/22/97	<del></del>
Concentrate	d Extrac	t Volume:	1(uL)		Dilut	ion Fact	or:	1.0	<del></del>
Injection Vol	ume: <u>1</u>	.0 (uL)		•	Soil	Aliquot V	olur/	ne: 1	(uL)
GPC Cleanu	p: (Y/N)	N	pH: <u>7</u>						
				CONCE	NTR	ATION I	רואנ	S:	
Number TIC	s found:	3		(ug/L or	ug/k	(g) <u>l</u>	JG/L	<u>-</u>	
CAS NUM	SER .	COMPO	JND NAME			RT	ES	T. CONC.	Q
1. 00012	3-42-2	2-Pentano	ne, 4-hydroxy-4-	methyl		5.24		27	JN
2. 00000	0-00-0	(E)-3-Chlo	ro-2-methyl-2-pe	entenal		7.97		52	J

1,4-Dichlorobenzene-d4

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD	ID
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Lab Name:	FMETL	L	Location: 2700				MW30				
Cert. No.	13461	Ca	se No.: 2472		Projec	t	CW2	_ s	DG.	<del>.</del>	
Matrix: (soil/	water)	WATER	_		La	ab :	Sample	ID:	247	2.03	
Sample wt/v	ol:	1000	(g/ml) ML		La	ab I	File ID:		BNO	185.D	
Level: (low/	med)	LOW	_		D	ate	Receiv	ed:	04/2	4/97	_
% Moisture:		dec	anted: (Y/N)	N	D	ate	Analyz	ed:	05/2	2/97	_
Concentrate	d Extract	Volume:	1 (uL)		_ D	iluti	ion Fac	tor:	1.0		_
Injection Vol	ume: <u>1</u> .	0 (uL)			S	oil /	Aliquot '	Volu	me:	1	_ (uL)
GPC Cleanu	ip: (Y/N)	N	pH: <u>7</u>								_
				C	ONCEN	TR	ATION	UNI	TS:		
Number TIC	s found:	4	<del></del>	(u	g/L or u	g/K	(g)	UG/	<u>L</u>	<del></del>	
04011111		0014001	INIPALANET								_

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID. TENTATIVELY IDENTIFIED COMPOUNDS

		IFIXIV	IIACTI	IDENTIF	ILU	COMICO	פטאכ				
Lab Name:	FMETL					Location:	2700			MW:	31
Cert. No.	13461	Ca	ase No.	: 2472		Project	CW2	s	DG.		
Matrix: (soil/v	vater)	WATER	_			Lat	Sample	ID:	2472	2.04	
Sample wt/vo	ol:	1000	_ (g/m	l) <u>ML</u>		Lat	File ID:		BNO	186.D	
Level: (low/n	ned)	LOW	<del></del>			Dat	te Receiv	ed:	04/2	4/97	
% Moisture:		dec	anted:	(Y/N) _	N	Dat	te Analyz	ed:	05/2	2/97	
Concentrated	Extract	Volume:	1	(uL)		 Dilu	ution Fac	tor:	1.0		
Injection Volu	ıme: <u>1.0</u>	(uL)				Soi	l Aliquot '	Volu	me:	1	 (uL)
GPC Cleanu	p: <b>(Y/N</b> )	N.	pH:	7						-	
	-				С	ONCENT	RATION	UNI	TS:		
Number TiCs	found:	3			(L	ıg/L or ug/	Kg)	UG/	<b>L</b>		

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	5.36	330	JN
2. 000000-00-0	(E)-3-Chloro-2-methyl-2-pentenal	7.99	60	JN
3. 002199-69-1	Benzene-1,2,3,4-d4-, 5,6-dichloro	8.77	35	JN

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

**TENTATIVELY IDENTIFIED COMPOUNDS** 

ı	E	L	ט	J	U

Lab Name:	FMETL				Location:	2700		191732	
Cert. No.	13461	Са	se No.: 2472		Project	CW2	SI	DG.	
Matrix: (soil/	water)	WATER	_		Lal	Sample I	D:	2472.05	
Sample wt/vo	ol:	1000	(g/ml) ML		Lal	File ID:		BN0189.D	
Level: (low/r	ned)	LOW	_		Da	te Receive	ed:	04/24/97	
% Moisture:		dec	anted: (Y/N)	N	Da	te Analyze	d:	05/22/97	
Concentrated	d Extract	Volume:	(uL)		Dile	ution Facto	or:	1.0	
Injection Volu	ume: <u>1.0</u>	(uL)			Soi	i Aliquot V	olur	me: <u>1</u>	_ (uL)
GPC Cleanu	p: (Y/N)	<u>N</u>	pH: <u>7</u>						

#### **CONCENTRATION UNITS:**

Number 11Cs four	a: 5 (ug/L o	r ug/Kg)	UG/L	
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000123-42-	2 2-Pentanone, 4-hydroxy-4-methyl	5.36	440	JN
2. 000000-00-	0 (E)-3-Chloro-2-methyl-2-pentenal	7.99	100	JN
3. 003855-82-	1 1,4-Dichlorobenzene-d4	8.76	26	JN
4. 000057-10-	3 Hexadecanoic acid	20.46	18	JN
5. 074685-33-	3-Eicosene, (E)-	25.04	8	JN

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Lab Name:	FMETL			Location:	2700		MW33	
Cert. No.	13461	Case	No.: 2472	Project	CW2	SDG.		
Matrix: (soil/	water)	WATER		Lal	o Sample ID	): <u>2472.0</u>	06	
Sample wt/vo	ol:	1000 (	g/ml) ML	Lat	o File ID:	BN018	38.D	_
Level: (low/r	ned)	LOW		Da	te Received	: <u>04/24/</u>	97	_
% Moisture:		decant	ted: (Y/N)	N Da	te Analyzed	: 05/22/	97	_
Concentrated	d Extract	Volume: 1	(uL)	Dilu	ution Factor	1.0		_
Injection Volu	ume: <u>1.0</u>	) (uL)		Soi	il Aliquot Vol	lume: 1		_ (uL)
GPC Cleanu	p: <b>(Y/N)</b>	N pH	i: <u>7</u>					
				CONCENT	RATION UN	NITS:		
Number TICs	s found:	3		(ug/L or ug/	Kg) <u>UG</u>	9/L		
					Ι΄			

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 002213-32-3	1-Pentene, 2,4-dimethyl-	6.68	9	JN
2. 000000-00-0	(E)-3-Chloro-2-methyl-2-pentenal	7.97	41	JN
3. 003855-82-1	1,4-Dichlorobenzene-d4	8.76	30	JN

Client:

U.S. Army

Lab. ID #:

2472.02

DPW, SELFM-PW-EV

Date Rec'd:

4/24/97

Bldg. 173

**Extraction Date:** 

4/28/97

Ft. Monmouth, NJ 07703

Analysis Date:

6/7/97

Analysis:

EPA Method 608

Location: CW-2, Bldg.2700

Matrix:

Aqueous

Ft. Monmouth

Analyst:

D. Wright

Field ID:

Field Blank

Ext. Meth:

Sep. Funnel

Alpha-BHC	Ext. Meth: Sep. F	иппет	 		
Deta-BHC			i)	II.	Result (ug/L)
Semma-BHC   1   0.20   0.0026   ND	alpha-BHC	1	0.02	0.0023	ND
Mathematical Nation	beta-BHC	1	0.20	0.0026	ND
Heptachlor	gamma-BHC	1	 0.20	0.0026	ND
Aldrin         1         0.04         0.0028         ND           Heptachlor Epoxide         1         0.20         0.0024         ND           Endosulfan I         1         0.40         0.0024         ND           4,4'-DDE         1         0.10         0.0034         ND           Dieldrin         1         0.03         0.0019         ND           Endrin         1         2.00         0.0030         ND           Endrin Ketone         1         NA         0.0100         ND           Endosulfan II         1         0.40         0.0027         ND           4,4'-DDD         1         0.10         0.0066         ND           4,4'-DDT         1         0.10         0.0015         ND           Endosulfan-Sulfate         1         0.40         0.0015         ND           Methoxychlor         1         NA         0.0100         ND           Methoxychlor         1         NA         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.040         ND           Arochlor 1221         <	delta-BHC	1	NA	0.0029	ND
Heptachlor Epoxide	Heptachlor	1	0.40	0.0027	ND
Endosulfan I	Aldrin	1	0.04	0.0028	ND
4,4'-DDE         1         0.10         0.0034         ND           Dieldrin         1         0.03         0.0019         ND           Endrin         1         2.00         0.0030         ND           Endrin Ketone         1         NA         0.0100         ND           Endosulfan II         1         0.40         0.0027         ND           4,4'-DDD         1         0.10         0.0066         ND           4,4'-DDT         1         0.10         0.0015         ND           Endosulfan-Sulfate         1         0.40         0.0010         ND           Methoxychlor         1         NA         0.0100         ND           Methoxychlor         1         NA         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1248         <	Heptachlor Epoxide	1	0.20	0.0024	ND
Dieldrin	Endosulfan I	1	0.40	0.0024	ND
Endrin 1 2.00 0.0030 ND  Endrin Ketone 1 NA 0.0100 ND  Endosulfan II 1 0.40 0.0027 ND  4,4'-DDD 1 0.10 0.0066 ND  4,4'-DDT 1 0.10 0.0015 ND  Endosulfan-Sulfate 1 0.40 0.0010 ND  Methoxychlor 1 NA 0.0100 ND  Alpha-chlordane 1 0.50 0.0140 ND  Gamma-chlordane 1 0.50 0.0140 ND  Toxaphene 1 3.00 0.0182 ND  Arochlor 1016 1 0.50 0.0640 ND  Arochlor 1221 1 0.50 0.0500 ND  Arochlor 1242 1 0.50 0.0500 ND  Arochlor 1248 1 0.50 0.0500 ND  Arochlor 1248 1 0.50 0.0500 ND  Arochlor 1254 1 0.50 0.0500 ND	4,4'-DDE	1	0.10	0.0034	ND
Endrin Ketone 1 NA 0.0100 ND Endosulfan II 1 0.40 0.0027 ND 4,4'-DDD 1 0.10 0.0066 ND 4,4'-DDT 1 0.10 0.0015 ND Endosulfan-Sulfate 1 0.40 0.0010 ND Methoxychlor 1 NA 0.0100 ND Alpha-chlordane 1 0.50 0.0140 ND Gamma-chlordane 1 0.50 0.0140 ND Toxaphene 1 3.00 0.0182 ND Arochlor 1221 1 0.50 0.0500 ND Arochlor 1232 1 0.50 0.0500 ND Arochlor 1248 1 0.50 0.0500 ND Arochlor 1248 1 0.50 0.0500 ND Arochlor 1254 1 0.50 0.0500 ND Arochlor 1254 1 0.50 0.0500 ND	Dieldrin	11	0.03	0.0019	ND
Endosulfan II         1         0.40         0.0027         ND           4,4'-DDD         1         0.10         0.0066         ND           4,4'-DDT         1         0.10         0.0015         ND           Endosulfan-Sulfate         1         0.40         0.0010         ND           Methoxychlor         1         NA         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0500         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Endrin	1	2.00	0.0030	ND
4,4'-DDD       1       0.10       0.0066       ND         4,4'-DDT       1       0.10       0.0015       ND         Endosulfan-Sulfate       1       0.40       0.0010       ND         Methoxychlor       1       NA       0.0100       ND         Alpha-chlordane       1       0.50       0.0140       ND         Gamma-chlordane       1       0.50       0.0140       ND         Toxaphene       1       3.00       0.0182       ND         Arochlor 1016       1       0.50       0.0640       ND         Arochlor 1221       1       0.50       0.0500       ND         Arochlor 1232       1       0.50       0.0500       ND         Arochlor 1248       1       0.50       0.0500       ND         Arochlor 1254       1       0.50       0.0500       ND	Endrin Ketone	1	NA	0.0100	ND
4,4'-DDT         1         0.10         0.0015         ND           Endosulfan-Sulfate         1         0.40         0.0010         ND           Methoxychlor         1         NA         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Endosulfan II	1	 0.40	0.0027	ND
Endosulfan-Sulfate         1         0.40         0.0010         ND           Methoxychlor         1         NA         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	4,4'-DDD	1	0.10	0.0066	ND
Methoxychlor         1         NA         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	4,4'-DDT	1	0.10	0.0015	ND
Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Endosulfan-Sulfate	1	0.40	0.0010	ND
Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Methoxychlor	1	NA	0.0100	ND
Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Alpha-chlordane	1	 0.50	0.0140	ND
Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Gamma-chlordane	1	0.50	0.0140	ND
Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Toxaphene	1	3.00	0.0182	ND
Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Arochlor 1016	1	0.50	0.0640	ND
Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Arochlor 1221	1	0.50	0.0500	ND
Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	<del></del>	1	 0.50	0.0500	ND
Arochlor 1254 1 0.50 0.0500 ND	Arochlor 1242	1	0.50	0.0280	ND
11 1000 HD	Arochlor 1248	1	0.50	0.0500	ND
Arochlor 1260 1 0.50 0.0680 ND	Arochlor 1254	1	0.50	0.0500	ND
	Arochlor 1260	1	0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID #:

2472.03

DPW, SELFM-PW-EV

Date Rec'd:

4/24/97

Bldg. 173

**Extraction Date:** 

4/28/97

Ft. Monmouth, NJ 07703

Analysis Date:

6/7/97

Analysis:

EPA Method 608

Location: CW-2, Bldg.2700

Matrix:

Aqueous

Ft. Monmouth

Analyst:

D. Wright

Field ID:

MW-30

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. F	'unnel				
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	. 1		0.20	0.0024	ND
Endosulfan I	1	-	0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND
					<del></del>

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID #:

2472.04

DPW, SELFM-PW-EV

Date Rec'd:

4/24/97

Bldg. 173

**Extraction Date:** 

4/28/97

Ft. Monmouth, NJ 07703

Analysis Date:

6/7/97

Analysis:

EPA Method 608

Location: CW-2, Bldg.2700

Matrix:

Ft. Monmouth

Analyst:

Aqueous D. Wright

Field ID:

MW-31

Ext. Meth:

Sep. Funnel

Dil				
Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
1		0.02	0.0023	ND
1		0.20	0.0026	ND
1		0.20	0.0026	ND
1		NA	0.0029	ND
1		0.40	0.0027	ND
1		0.04	0.0028	ND
1.		0.20	0.0024	ND
1		0.40	0.0024	ND.
1		0.10	0.0034	ND
1		0.03	0.0019	ND
1		2.00	0.0030	ND
1		NA	0.0100	ND
1		0.40	0.0027	ND ·
1		0.10	0.0066	ND
1		0.10	0.0015	ND
1		0.40	0.0010	ND
1		NA	0.0100	ND
1		0.50	0.0140	ND
1		0.50	0.0140	ND
1		3.00	0.0182	ND
1		0.50	0.0640	ND
1		0.50	0.0500	ND
i		0.50	0.0500	ND
1		0.50	0.0280	ND
1		0.50	0.0500	ND
1		0.50	0.0500	ND
1		0.50	0.0680	ND
	Factor  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Factor         Time           1         1	Factor         Time         Criteria           1         0.02           1         0.20           1         0.20           1         NA           1         0.40           1         0.04           1         0.40           1         0.10           1         0.03           1         0.40           1         0.40           1         0.10           1         0.40           1         0.40           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50	Factor         Time         Criteria         (ug/L)           1         0.02         0.0023           1         0.20         0.0026           1         0.20         0.0026           1         NA         0.0029           1         0.40         0.0027           1         0.04         0.0028           1         0.20         0.0024           1         0.40         0.0024           1         0.10         0.0034           1         0.03         0.0019           1         0.03         0.0019           1         0.40         0.0027           1         0.40         0.0027           1         0.40         0.0027           1         0.40         0.0027           1         0.10         0.0066           1         0.10         0.0010           1         0.40         0.0010           1         0.40         0.0010           1         0.50         0.0140           1         0.50         0.0140           1         0.50         0.0500           1         0.50         0.0500

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID#:

2472.05

DPW, SELFM-PW-EV

Date Rec'd:

4/24/97

Bldg. 173

**Extraction Date:** 

4/28/97

Ft. Monmouth, NJ 07703

Analysis Date:

6/7/97

Analysis:

EPA Method 608

Location: CW-2, Bldg.2700

Matrix:

Aqueous

Ft. Monmouth

Analyst:

D. Wright

Field ID:

MW-32

Ext. Meth:

Sep. Funnel

Bat. Meth. Sep. 1	· umuei			<u> </u>	
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	· ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1.		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation;

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID#:

2472.06

DPW, SELFM-PW-EV

Date Rec'd:

4/24/97

Bldg. 173

**Extraction Date:** 

4/28/97

Ft. Monmouth, NJ 07703

Analysis Date:

6/7/97

Analysis:

EPA Method 608 ·

Location: CW-2, Bldg.2700

Matrix:

Aqueous

Ft. Monmouth

Analyst:

D. Wright

Field ID:

MW-33

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. F	unner				
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochior 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND .
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mm!D/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-2 (Bldg. 2700)

Ft. Monmouth, New Jersey

Lab ID #: 2472.02

Sample Received: 4/24/97

Sample Matrix: Aqueous

Field ID: Field Blank

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	MDL	GW
	Analysis	(ug/L)	(ug/L)	Criteria
		•		(ug/L)
Aluminum	7/1/97	ND	100	200
Antimony	5/1/97	ND	1.0	20
Arsenic	4/30/97	ND	1.0	8
Barium	7/1/97	ND	30	2000
Beryllium	5/1/97	ND	0.6	20
Cadmium	5/28/97	ND	2.0	4
Calcium	7/1/97	ND	30	NA
Chromium	7/1/97	ND	7.0	100
Cobalt	5/1/97	0.5	0.3	NA
Copper	6/30/97	7.0	3.0	1000
Iron	5/13/97	ND	10	- 300
Lead	5/1/97	ND	0.5	10
Magnesium	7/1/97	ND	50	NA
Manganese	6/30/97	9.0	5.0	50
Mercury	5/8/97	ND	0.2	2
Nickel	6/30/97	ND	10	100
Potassium	6/30/97	ND	40	NA
Selenium	5/1/97	ND	1.0	50
Silver	5/7/97	8.0	3.0	20
Sodium	6/30/97	ND	10	50000
Thallium	4/30/97	ND	1.0	10
Vanadium	7/1/97	ND	200	NA
Zinc	6/30/97	2.0	2.0	5000

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-2 (Bldg. 2700)

Ft. Monmouth, New Jersey

Lab ID #: 2472.03

Sample Received: 4/24/97

Sample Matrix: Aqueous

Field ID: MW-30

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	MDL	GW
. — -	Analysis	(ug/L)	(ug/L)	Criteria
				(ug/L)
Aluminum	7/1/97	ND	100	200
Antimony	5/1/97	ND	1.0	20
Arsenic	4/30/97	4.0	1.0	8
Barium	7/1/97	ND	30	2000
Beryllium	5/1/97	ND	0.6	20
Cadmium	5/28/97	ND	2.0	4
Calcium	7/1/97	41000	30	NA
Chromium	7/1/97	ND	7.0	100
Cobalt	5/1/97	0.7	0.3	NA
Copper	6/30/97	i <del> i</del>	3.0	1000
Iron	5/13/97	9110	10	300
Lead	5/1/97	ND	0.5	10
Magnesium	7/1/97	4500	50	NA
Manganese	6/30/97	69	5.0	50
Mercury	5/8/97	ND	0.2	2
Nickel	6/30/97	ND	10	100
Potassium	6/30/97	6900	40	NA
Selenium	5/1/97	· ND	1.0	50
Silver	5/7/97	10	3.0	20
Sodium	6/30/97	14000	10	50000
Thallium	4/30/97	ND	1.0	10
Vanadium	7/1/97	ND	200	NA
Zinc	6/30/97	6.0	2.0	5000

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Site: CW-2 (Bldg. 2700)

Ft. Monmouth, New Jersey

Lab ID #: 2472.04

Sample Received: 4/24/97

Sample Matrix: Aqueous

Field ID: MW-31

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	MDL	GW
	Analysis	(ug/L)	(ug/L)	Criteria
				(ug/L)
Aluminum	7/1/97	ND	100	200
Antimony	5/1/97	ND	1.0	20
Arsenic	4/30/97	2.0	1.0	_ 8
Barium	7/1/97	ND	. 30	2000
Beryllium	5/1/97	ND	0.6	20
Cadmium	5/28/97	ND	2.0	4
Calcium	7/1/97	40200	30	NA
Chromium	7/1/97	ND	7.0	100
Cobalt	5/1/97	ND	0.3	NA
Copper	6/30/97	11	3.0	1000
Iron	5/13/97	59900	10	300
Lead	5/1/97	ND	0.5	10
Magnesium	7/1/97	5680	50	NA
Manganese	6/30/97	277	5.0	50
Mercury	5/8/97	ND	0.2	2
Nickel	6/30/97	ND	10	100
Potassium	6/30/97	8960	40	NA
Selenium	5/1/97	ND	1.0	50
Silver	5/7/97	14	3.0	20
Sodium	6/30/97	11100	10	50000
Thallium	4/30/97	ND	1.0	10
Vanadium	7/1/97	ND	200	NA
Zinc	6/30/97	ND	2.0	5000

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-2 (Bldg. 2700)

Ft. Monmouth, New Jersey

Lab ID #: 2472.05

Sample Received: 4/24/97

Sample Matrix: Aqueous

Field ID: MW-32

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	MDL	GW	7
	Analysis	(ug/L)	(ug/L)	Criteria	
				(ug/L)	]
Aluminum	7/1/97	ND	100	200	
Antimony	5/1/97	ND	1.0	20	
Arsenic	4/30/97	2.0	1.0	8	
Barium	7/1/97	ND	30	2000	
Beryllium	5/1/97	ND	0.6	20	
Cadmium	5/28/97	ND	2.0	4	
Calcium	7/1/97	77000	30	NA	
Chromium	7/1/97	ND	7.0	100	
Cobalt	5/1/97	0.9	0.3	NA	
Copper	6/30/97	27	3.0	1000	
Iron	5/13/97	18400	10	300	
Lead	5/1/97	ND	0.5	10	
Magnesium	7/1/97	4750	50	NA	
Manganese	6/30/97	125	5.0	50	
Mercury	5/8/97	ND	0.2	2	
Nickel	6/30/97	ND	10	100	
Potassium	6/30/97	6740	40	NA	
Selenium	5/1/97	ND	1.0	50	
Silver	5/7/97	11	3.0	20	
Sodium	6/30/97	22250	10	50000	
Thallium	4/30/97	ND	1.0	10	
Vanadium	7/1/97	ND	200	NA	
Zinc	6/30/97	121	2.0	5000	

Client: U.S. Army

DPW. SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-2 (Bldg. 2700)

Ft. Monmouth, New Jersey

Lab ID #: 2472.06

Sample Received: 4/24/97

Sample Matrix: Aqueous

Field ID: MW-33

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	MDL	GW
	Analysis	(ug/L)	(ug/L)	Criteria
				(ug/L)
Aluminum	7/1/97	ND	100	200
Antimony	5/1/97	ND	1.0	20
Arsenic	4/30/97	3.0	1.0	. 8
Barium	7/1/97	90	30	2000
Beryllium	5/1/97	ND	0.6	20
Cadmium	5/28/97	ND	2.0	4
Calcium	7/1/97	67200	30	NA
Chromium	7/1/97	ND	7.0	100
Cobalt	5/1/97	0.7	0.3	NA
Copper	6/30/97	9.0	3.0	1000
Iron	5/13/97	88600	10	300
Lead	5/1/97	ND	0.5	10
Magnesium	7/1/97	3110	50	NA
Manganese	6/30/97	424	5.0	50
Mercury	5/8/97	ND	0.2	2
Nickel	6/30/97	. ND	10	100
Potassium	6/30/97	11000	40	NA
Selenium	5/1/97	ND	1.0	50
Silver	5/7/97	16	3.0	20
Sodium	6/30/97	12000	10	50000
Thallium	4/30/97	ND	1.0	10
Vanadium	7/1/97	ND	200	NA
Zinc	6/30/97	ND	2.0	5000

ND = Not Detected, MDL = Method Detection Limit, NA = Not Applicable

B

13

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-2 (Bldg. 2700)

Ft. Monmouth, New Jersey

Lab ID #: 2472.07

Sample Received: 4/24/97

Sample Matrix: Aqueous

Field ID: Field DUP

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	MDL	GW
	Analysis	(ug/L)	(ug/L)	Criteria
				(ug/L)
Aluminum	7/1/97	ND	100	200
Antimony	5/1/97	ND	1.0	20
Arsenic	4/30/97	3.0	1.0	8
Barium	7/1/97	ND	30	2000
Beryllium	5/1/97	ND	0.6	20
Cadmium	5/28/97	ND	2.0	4
Calcium	7/1/97	78200	30	NA
Chromium	7/1/97	ND	7.0	100
Cobait	5/1/97	0.8	0.3	NA
Copper	6/30/97	30	3.0	1000
Iron	5/13/97	17350	10	300
Lead	5/1/97	ND	0.5	10
Magnesium	7/1/97	3700	50	NA
Manganese	6/30/97	117	5.0	50
Mercury	5/8/97	ND	0.2	2
Nickel	6/30/97	ND	10	100
Potassium	6/30/97	6610	40	NA.
Selenium	5/1/97	ND	1.0	50
Silver	5/7/97	14	3.0	20
Sodium	6/30/97	23100	10	50000
Thallium	4/30/97	ND	1.0	10
Vanadium	7/1/97	ND	200	NA
Zinc	6/30/97	120	2.0	5000

## FORT MONMOUTH ENVIRONMENTAL

## **TESTING LABORATORY**

**DIRECTORATE OF PUBLIC WORKS** 

PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



## ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
2788.03	MW-30	29-32594	07/10/97
2788.04	MW-31	29-32595	07/10/97
2788.06	MW-32	29-32596	07/10/97
2788.05	MW-33	29-32597	07/10/97

NJDEP Laboratory Certification # 13461

Report Date: 2 December, 1997

Daniel Wright Laboratory Director

## **METHODOLOGY SUMMARY**

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3111D
Antimony	3113B
Arsenic	3113B
Barium	3111D
Beryllium	3113B
Cadmium	3111B
Calcium	3111B
Chromium	3111D
Cobalt	3113B
Copper	3111B
Iron	3111B
Lead	3113B
Magnesium	3111B
Manganese	3111B
Mercury	3112B
Nickel	3111B
Potassium	3111B
Selenium	3113B
Silver	3111B
Sodium	3111B
Thallium	3113B
Vanadium	3111D
Zinc	3111B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



## Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

**Chain of Custody Record** 

Customer:	I FALLON	Project No:	<u> </u>				Ana	lysis I	Parameter	s	Comments:
Phone #: X	F6773	Location: (1)	טינצ								
(X)DERA ()OMA (	)Other:		2700		TEL	TAL	TIL				
Samplers Name / Cor	npany: Ray ROGNOT	/ TUS	Sample		DOM.	rusals	¢vA	Til Paty			
Lab Sample I.D.	Sample Location	Date Ti	те Туре	bottles	15		25	MB			Remarks / Preservation Method
2788 1 34.5 6789	TRIP Black Field Bland Blog 2700 nw 30 Blog 2700 nw 31 Blog 2700 nw 33 Blog 2700 nw 32 Blog 2700 nw 32 Blog 2700 nw 200 4 Field Dap		0 10 14 14 135	ようからからから	x x	X	X	X			All Supples Kost & 4°C (Non-14cl) (Metalic Hiving) "2932598" "3932598" "3932596" "1932596" "1930969
Relinquished by (signature		Received by (signatur	re):7-10.47	Relinq	uished	by (sige	iature):	·	Date/Time	Received by	y (signature):
Relinquished by (signature	c): Date/Time:	Received by (signatu	ге):	Relinq	uished	by (sigi	nature):		Date/Time	Received by	y (signature):
Report Type: (_)Full, (_)F	Reduced, (X)Standard, (_)Screen lard 4 wks. (_)Rush Days,	/ non-certified	_Hrs.		Remar	ks:					j

Custody.xle

## U.S. ARMY FORT MOMOUTH MONITORING WELL SAMPLING DATASHEET

BLDG: 2700 MW#: 30 NJDEP ID#: 2932594 NJDEP CERT#: 13461 SAMPLING CONTRATOR: TVS SAMPLER: RAY POGWIST WEATHER: PT. SUNNY 70'S DATE: 7/10/97 ELEVATION OF CASING SURVEY MARK: DTW: 7.05 DEPTH OF WELL: 17.90 HEIGHT OF WATER: 10.85 10.85  $\times$  0.65  $\times$  3 = 21.15 GAL OF H2O TO BE EVACUATED: 21.16 PURGE METHOD (FLOW OF >0.5 TO <5.0 GPM): PERISTALTIC PURGE RATE IN GPM: 0.3 Hnu in PPM: 0 PURGE START TIME: 9:30 pH: 7.90 · TEMP IN ° C: 21.7 DISSOLVED O<sub>2</sub> IN PPM: 2.0 SPECIFIC CONDUCTIVITY IN us/cm: 130 PURGE END TIME: 10:40 pH: 7.40 TEMP IN °C: 22.7 DISSOLVED O, IN PPM: 1.5 SPECIFIC CONDUCTIVITY IN us/cm: 190 DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING IN FT: 9.95 sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer TOTAL VOLUME PURGED IN GAL.: 21.16 pH: 7.39 TEMP IN °C: 22.8 DISSOLVED O<sub>2</sub> IN PPM: 1.5 SPECIFIC CONDUCTIVITY IN us/cm: 190

COMMENTS:

## U.S. ARMY FORT MOMOUTH MONITORING WELL SAMPLING DATASHEET

BLDG: 2700 MW#: 31 NJDEP ID#: 2932595 NJDEP CERT#: 13461 SAMPLING CONTRATOR: TVS SAMPLER: RAY POGWIST DATE: 7/10/97 WEATHER: PT. SUNNY 70'S ELEVATION OF CASING SURVEY MARK: DTW: 7.00 DEPTH OF WELL: 16.80 HEIGHT OF WATER: 9.8 9.8  $\times$  0.65  $\times$  3 = 19.11 GAL OF H2O TO BE EVACUATED: PURGE METHOD (FLOW OF >0.5 TO <5.0 GPM): PERISTALTIC PURGE RATE IN GPM: 0.3 Hnu in PPM: 0 PURGE START TIME: 9:45 pH: 7.70 TEMP IN ° C: 22.2 DISSOLVED O<sub>2</sub> IN PPM: 2.1 SPECIFIC CONDUCTIVITY IN us/cm: 200 PURGE END TIME: 10:50 pH: 7.35 TEMP IN °C: 21.2 DISSOLVED O<sub>2</sub> IN PPM: 1.7 SPECIFIC CONDUCTIVITY IN us/cm: 180 DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING IN FT: 8.05 sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer TOTAL VOLUME PURGED IN GAL.: 19.11 pH: 7.31 TEMP IN °C: 21.3 DISSOLVED O<sub>2</sub> IN PPM: 1.6 SPECIFIC CONDUCTIVITY IN us/cm: 180

COMMENTS:

## U.S. ARMY FORT MOMOUTH MONITORING WELL SAMPLING DATASHEET

BLDG: 2700 MW#: 32 NJDEP ID#: 2932596	
NJDEP CERT#: 13461 SAMPLING CONTRATOR: TVS	
SAMPLER: RAY POGWIST	,
DATE: 7/10/97 WEAT	THER: PT. CLOUDY 70'S
ELEVATION OF CASING SURVEY MAI	KK:
DTW: 7.20 DEPTH OF WELL: 16.80	
HEIGHT OF WATER: 9.60	
9.60 X 0.65 X 3 = 18.72 GAL OF H2O TO BE EVACUATED:	19.70
PURGE METHOD (FLOW OF >0.5 TO <	
PURGE RATE IN GPM: 0.3	ŕ
Hnu in PPM: 0	
PURGE START TIME: 13:15	
pH: 7.85 TEMP IN ° C	
DISSOLVED $O_2$ IN PPM: 2.5 SP	ECIFIC CONDUCTIVITY IN us/cm: 190
PURGE END TIME: 14:20	
	IN °C: 22.2 ECIFIC CONDUCTIVITY IN us/cm: 180
DISSOLVED Q <sub>2</sub> IIV IT WI. 2.0 Ser	ECIFIC CONDUCTIVITY IN us/cm: 180
DEPTH TO H2O AFTER PURGING AND	
sampling method: dedicated (law NJDEP F TOTAL VOLUME PURGED IN GAL.: 18.	
II 9 2 2	
pH: 8.32 TEMP IN °C: 22 DISSOLVED O <sub>2</sub> IN PPM: 2.0 SPECIFIC	
<u> </u>	
COMMENTS:	

## U.S. ARMY FORT MOMOUTH MONITORING WELL SAMPLING DATASHEET

BLDG: 2700
MW#: 33
NJDEP ID#: 2932597
NJDEP CERT#: 13461
SAMPLING CONTRATOR: TVS
SAMPLER: RAY POGWIST
DATE: 7/10/97 WEATHER: PT. SUNNY 70'S
ELEVATION OF CASING SURVEY MARK:
DTW: 9.10
DEPTH OF WELL: 16.00
HEIGHT OF WATER: 6.90
6.90   X   0.65   X   3 = 13.45
GAL OF H2O TO BE EVACUATED: 13.46
PURGE METHOD (FLOW OF >0.5 TO <5.0 GPM): PERISTALTIC
PURGE RATE IN GPM: 0.3
Hnu in PPM: 0
PURGE START TIME: 10:10
pH: 6.68 TEMP IN ° C: 21.5
DISSOLVED O <sub>2</sub> IN PPM: 2.5 SPECIFIC CONDUCTIVITY IN us/cm: 270
PURGE END TIME: 10:55
pH: 6.65 TEMP IN °C: 22.0
DISSOLVED O <sub>2</sub> IN PPM: 2.4 SPECIFIC CONDUCTIVITY IN us/cm: 250
DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING IN FT: 9.20 sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer TOTAL VOLUME PURGED IN GAL.: 13.46
pH: 6.65 TEMP IN °C: 22.1
DISSOLVED O <sub>2</sub> IN PPM: 2.3 SPECIFIC CONDUCTIVITY IN us/cm: 25
COMMENTS

## **Organic Data Qualifiers**

### Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

### Qualifiers are:

- J Estimated Value
- N Presumptive evidence of a compound
- E Concentration exceeds calibration range
- D Diluted sample
- A TIC is a suspected aldol condensation product

Data File Name Operator

V01259.D

**Paul Skelton** 

Sample Name Field ID

Daily Blank Daily Blank

1

Date Acquired

07/14/19 -1:9:

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	па
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na.
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane	_		not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	па
126-48-1	Dibromochloromethane	_		not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene	_		not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene		·	not detected	1.57 ug/L	100
75-25-2	Bromoform	_		not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

Data File Name v01276.d

Operator

Paul Skelton Date Acquired 07/15/19 -1:0: Sample Name

2788.01 Trip Blank

Field ID Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane	· · · · · · · · · · · · · · · · · · ·		not detected	0.79 ug/L	30
75-01-4	Vinyi Chloride		<del>                                     </del>	not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride		<del>                                     </del>	not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene		<del> </del>	not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane		<del>                                     </del>	not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate	<del></del>	<del>                                     </del>	not detected	2.07 ug/L	na
78-93-3	2-Butanone		<del>                                     </del>	not detected	2.06 ug/L	300
70-00-0	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform	<b></b>	<del>                                     </del>	not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.43 ug/L 0.81 ug/L	30
56-23-5	Carbon Tetrachloride	<del></del>	<del> </del>	not detected	1.20 ug/L	2
71-43-2	Benzene	<del> </del>	<del> </del>	not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene	$\vdash$	<del>                                     </del>	not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane	<del> </del>	<del> </del>	not detected	0.34 ug/L 0.78 ug/L	1
75-27-4	Bromodichloromethane	<del></del>	<del> </del>	not detected	0.78 ug/L 0.77 ug/L	1
		<del></del>	<del>                                     </del>	not detected	1.05 ug/L	
110-75-8 10061-01-5	2-Chloroethyl vinyl ether cis-1,3-Dichloropropene		<del> </del>	not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone	<del></del>	<del> </del>	not detected	1.33 ug/L	na 400
108-88-3	Toluene	<del> </del>	<del> </del>	not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected		na
79-00-5	1,1,2-Trichloroethane		<del>                                     </del>	not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene	<del></del>		not detected	0.92 ug/L	1
591-78-6	2-Hexanone	<del> </del>	<del> </del>	not detected	1.12 ug/L	
126-48-1	Dibromochloromethane		<del>                                     </del>	not detected	1.36 ug/L	na 10
108-90-7	Chlorobenzene	-		not detected		4
100-41-4	Ethylbenzene		<del> </del>	not detected	1.14 ug/L	700
	m+p-Xylenes	<del> </del>		not detected		
1330-20-7 1330-20-7	o-Xylene		<del>                                     </del>	not detected	2.53 ug/L 1.92 ug/L	na
100-42-5	Styrene	<del> </del>	<del> </del>	not detected	1.92 ug/L 1.57 ug/L	na 100
75-25-2	Bromoform	<u> </u>	<del> </del>	not detected		100
79-34-5	1,1,2,2-Tetrachloroethane		<del> </del>	not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene	<del> </del>	<del> </del>	not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene	<del> </del> -	<del>                                     </del>	not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene	<del> </del>	<del>   </del>			
30-00-1	Li,z-Divitioloperizene			not detected	2.75 ug/L	600

Data File Name v01277.d

Operator **Paul Skelton** Date Acquired 07/15/19 -1:1:

Sample Name

2788.02

Field ID

Field Blank

Sample Multiplier

1

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile	1		not detected	6.25 ug/L	na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether	1		not detected	1.25 ug/L	na
108203	Di-isopropyl ether	<del></del>		not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone		<del></del>	not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.43 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene	· ·		not detected	0.94 ug/L	1
<b>78-87-5</b>	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
<u>591-</u> 78 <b>-</b> 6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L	600

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Data File Name v01278.d

Operator Paul Skelton

Date Acquired 07/15/19 -1:2:

Sample Name

2788.03

Field ID

Bldg 2700 MW30

Sample Multiplier

1

CAS#	Name	R.T.	Response	Amount	MDL.	GW Criteria
107028	Acrolein			not detected		na
107131	Acrylonitrile			not detected		na
75650	tert-Butyl alcohol			not detected		na
1634044	Methyl-tert-Butyl ether	1		not detected		na
108203	Di-isopropyl ether			not detected		na
	Dichlorodifluoromethane			not detected		na
74-87-3	Chloromethane			not detected		30
75-01-4	Vinyl Chloride			not detected		5
74-83-9	Bromomethane			not detected		10
75-00-3	Chioroethane	-		not detected		na
75-69-4	Trichlorofluoromethane		*	not detected		na
75-35-4	1,1-Dichloroethene			not detected		2
67-64-1	Acetone			not detected		700
75-15-0	Carbon Disulfide			not detected		na
75-09-2	Methylene Chloride			not detected	<u> </u>	2
156-60-5	trans-1,2-Dichloroethene			not detected		100
75-35-3	1,1-Dichloroethane			not detected		70
108-05-4	Vinyl Acetate			not detected		na
78-93-3	2-Butanone		-	not detected	<del></del>	300
	cis-1,2-Dichloroethene			not detected		10
67-66-3	Chloroform			not detected		6
75-55-6	1,1,1-Trichloroethane			not detected		30
56-23-5	Carbon Tetrachloride			not detected	7 -	2
71-43-2	Веплепе			not detected	<del></del>	1
107-06-2	1,2-Dichloroethane			not detected		2
79-01-6	Trichloroethene			not detected		1
78-87-5	1,2-Dichloropropane			not detected		1
75-27-4	Bromodichloromethane		· · · · · · · · · · · · · · · · · · ·	not detected		<u>-</u> -
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected		na
79-00-5	1,1,2-Trichloroethane			not detected		3
127-18-4	Tetrachloroethene			not detected		1
591-78-6	2-Hexanone			not detected		
126-48-1	Dibromochloromethane			not detected		na 10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected		
1330-20-7	o-Xylene			not detected		na na
100-42-5	Styrene			not detected	<del></del>	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene	<del></del>		not detected	2.51 ug/L	600
	1,4-Dichlorobenzene		<del></del>			
106-46-7	1,4-DIGITIO1000ENZENE	1	l	not detected	3.08 ug/L	74

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Data File Name v01279.d

Operator

Paul Skelton

Date Acquired 07/15/19 -1:3:

Sample Name

2788.04

Field ID

Bldg 2700 MW31

Sample Multiplier

1

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein	T		not detected	6.25 ug/L	
107131	Acrylonitrile			not detected	6.25 ug/L	na na
75650	tert-Butyl alcohol			not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
<b>75-</b> 15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene		· · · · · · · · · · · · · · · · · · ·	not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene		-	not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene		·····	not detected	2.75 ug/L	600

Data File Name v01287.d

Operator

Skelton

Date Acquired 07/15/19 -1:6:

Sample Name

2788.06

Field ID

Bldg 2700 MW32

Sample Multiplier

1

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	na
107131	Acrylonitrile			not detected		na
75650	tert-Butyl alcohol			not detected		na
1634044	Methyl-tert-Butyl ether	<u> </u>		not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chioride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L	na
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene			not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane	1		not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone		·	not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L	10
108-90-7	Chlorobenzene		·	not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene	<b></b>	<u> </u>	not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2 79 34 5	Bromoform			not detected	1.68 ug/L	4
79-34-5 541.73.1	1,1,2,2-Tetrachloroethane	<b> </b>	· · · · · · · · · · · · · · · · · · ·	not detected	1.71 ug/L	2
541-73-1 106-46-7	1,3-Dichlorobenzene	<del> </del>	<del></del>	not detected	2.51 ug/L	600
95-50-1	1,4-Dichlorobenzene	<del>                                     </del>		not detected	3.08 ug/L	74
7/20/07 2:24 (			CUCTODE	not detected	2.75 ug/L	600

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Data File Name v01286.d

Operator Skelton

Date Acquired 07/15/19 -1:5:

Sample Name

2788.05

Field ID

Bidg 2700 MW33

Sample Multiplier

1

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
107028	Acrolein	T		not detected	6.25 ug/L	na
107131	Acrylonitrile	<del> </del>		not detected	6.25 ug/L	na
75650	tert-Butyl alcohol	1		not detected	12.50 ug/L	na
1634044	Methyl-tert-Butyl ether			not detected	1.25 ug/L	na
108203	Di-isopropyl ether			not detected	1.25 ug/L	na
	Dichlorodifluoromethane			not detected	3.63 ug/L	na
74-87-3	Chloromethane			not detected	0.79 ug/L	30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	5
74-83-9	Bromomethane			not detected	1.45 ug/L	10
75-00-3	Chloroethane			not detected	2.20 ug/L	na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L	na
75-35-4	1,1-Dichloroethene		· · · · · · · · · · · · · · · · · · ·	not detected	0.74 ug/L	2
67-64-1	Acetone			not detected	1:.57 ug/L	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L	na
75-09-2	Methylene Chloride			not detected	1.66 ug/L	2
156-60-5	trans-1,2-Dichloroethene		· · · · · · · · · · · · · · · · · · ·	not detected	0.50 ug/L	100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L	70
108-05-4	Vinyl Acetate		·	not detected	2.07 ug/L	na i
78-93-3	2-Butanone			not detected	2.06 ug/L	300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L	10
67-66-3	Chloroform			not detected	0.43 ug/L	6
75-55-6	1,1,1-Trichloroethane			not detected	0.81 ug/L	30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L	2
71-43-2	Benzene			not detected	0.51 ug/L	1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L	2
79-01-6	Trichloroethene		×	not detected	0.94 ug/L	1
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L	1
75-27-4	Bromodichloromethane			not detected	0.77 ug/L	1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L	na
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L	na
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L	400
108-88-3	Toluene			not detected	0.73 ug/L	1000
10061-02-6	trans-1,3-Dichloropropene	_		not detected.	1.43 ug/L	na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L	3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L	1
591-78-6	2-Hexanone			not detected	1.12 ug/L	na
126-48-1	Dibromochloromethane		-	not detected	1.36 ug/L	10
108-90-7	Chlorobenzene			not detected	0.66 ug/L	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L	700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L	na
1330-20-7	o-Xylene			not detected	1.92 ug/L	na
100-42-5	Styrene			not detected	1.57 ug/L	100
75-25-2	Bromoform			not detected	1.68 ug/L	4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L	74
95-50-1	1,2-Dichlorobenzene		OUGTBBT	not detected	2.75 ug/L	600

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL				Project			Daily B	lank
NJDEP#	13461	Ca	se No.:		Loca	tion	SE	G No.:	
Matrix: (soil/v	water)	WATER	_			Lab Sample	 ∍ID:	Daily Blank	
Sample wt/vo	ol:	5.0	(g/ml)	ML		Lab File ID:	,	√01259.D	
Level: (low/r	ned)	LOW	_			Date Receiv	ved:		
% Moisture:	not dec.					Date Analyz	zed: (	07/14/97	
GC Column:	RTX-5	<u>0.2</u> ID: <u>0.2</u>	<u>25</u> (m	ım)		Dilution Fac	tor:	1.0	
Soil Extract \	/olume:		_ (uL)			Soil Aliquot	Volun	ne:	(uL)
Number TICs	s found:	0			CONCENTR (ug/L or ug/h				· · · · · · · · · · · · · · · · · · ·
CAS NO.		COMPOL	IND			RT	EST	CONC.	Q

DLATILE ORGANICS ANALYSIS DATA SHEET	FIELD ID
TENTATIVELY IDENTIFIED COMPOUNDS	

Lab Name:	FMETL	·		Project				Trip Bla	ank
NJDEP#	13461	Case	∋ No.: <u>27</u> 88	_ Locatio	on –	B.2700	SI	DG No.:	
Matrix: (soil/	water)	WATER		 La	ab S	Sample	ID:	2788.01	
Sample wt/vo	ol:	5.0	(g/ml) ML	_ La	ab f	File ID:		V01276.D	
Level: (low/r	ned)	LOW		D	ate	Receiv	ed:	07/10/97	
% Moisture:	not dec.		<b></b>	D	ate	Analyz	ed:	07/15/97	<del></del>
GC Column:	RTX-5	02 ID: 0.25	<u>5</u> (mm)	D	iluti	on Fact	or:	1.0	
Soil Extract \	/olume:		(uL)	S	oil A	الإ	/olur	ne:	(uL)
Number TICs	s found:	0		NCENTRA /L or ug/Kg		ON UNI			
CAS NO.		COMPOUN	ID			RT	ES	T. CONC.	Q

### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FI	EL	D.	ID
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Lab Name:	FMETL		Project		Field B	lank
NJDEP#	13461	Case No.: 27	88 Location	B.2700 S	 SDG No.:	
Matrix: (soil/\	water)	WATER	Lab	Sample ID:	2788.02	
Sample wt/vo	ol:	5.0 (g/ml) M	L Lab	File ID:	V01277.D	
Level: (low/r	ned)	LOW	Date	Received:	07/10/97	
% Moisture:	not dec.		Date	Analyzed:	07/15/97	
GC Column:	RTX-	502 ID: <u>0.25</u> (mm)	Dilut	ion Factor:	1.0	
Soil Extract \	/olume:	(uL)	Soil A	Aliquot Volu	ıme:	(uL)
Number TICs	s found:	0	CONCENTRATION (ug/L or ug/Kg)	ON UNITS:		
CAS NO.		COMPOUND		RT E	ST. CONC.	Q

## 1E VOLATILE ORGANICS ANALYSIS DATA SHEET

FILE ORGANICS ANALYSIS DATA SHEET	FIELD ID
STATIVELY IDENTIFIED COMPOUNDS	

Lab Name:	FMETL		Project		MW30	<u> </u>
NJDEP#	13461	Case No.: 2788	Location	B.2700	SDG No.:	
Matrix: (soil/\	water)	WATER	Lab :	Sample ID	2788.03	·
Sample wt/vo	oi:	5.0 (g/ml) ML	Lab I	File ID:	V01278.D	
Level: (low/r	ned)	LOW	Date	Received:	07/10/97	
% Moisture:	not dec.		Date	Analyzed:	07/15/97	<del></del>
GC Column:	RTX-	502 ID: 0.25 (mm)	Diluti	on Factor:	1.0	
Soil Extract Volume:		(uL)	(uL) Soil Aliquot Volun		ume:	(uL)
Number TICs	s found:	1	CONCENTRATION (ug/L or ug/Kg)	ON UNITS: UG/L		
CAS NO.		COMPOUND		RT E	ST. CONC.	Q
1.		unknown hydrocarbon	-	13 93	5	1

#### 1<u>E</u>

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID	)
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Lab Name:	FMETL				Project				/W31	
NJDEP#	13461	Ca	se No.: 27	788	Locatio	n B	.2700 S	DG No.:		
Matrix: (soil/	water)	WATER	<u>-</u>		La	b Sa	mple ID:	2788.04		
Sample wt/vo	ol:	5.0	(g/ml) <u>N</u>	/L	La	b File	e ID:	V01279.	)	_
Level: (low/r	ned)	LOW	_		Da	ate R	eceived:	07/10/97		_
% Moisture:	not dec.		·		Da	ite Ai	nalyzed:	07/15/97		_
GC Column:	RTX-5	0.2 ID: 0.2	25 (mm	)	Dil	ution	Factor:	1.0		
Soil Extract \	/olume:		_ (uL)		So	il Alio	quot Volu	me:		(uL)
Number TICs	s found:	0			ICENTRA <sup>-</sup> or ug/Kg)		UNITS: UG/L	·	···	
CAS NO.		COMPOL	ND			RT	ES	T. CONC		Q

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID

EST. CONC.

Q

RT

		TENTAT	IVELY IDENTIFIE	O COMPOUNDS		
Lab Name:	FMETL			Project	MW32	
NJDEP#	13461	Ca	se No.: 2788	Location B.2700 S	DG No.:	
Matrix: (soil/v	vater)	WATER	_	Lab Sample ID:	2788.06	
Sample wt/vo	ol:	5.0	(g/ml) ML	Lab File ID:	V01287.D	•
Level: (low/n	ned)	LOW	_	Date Received:	07/10/97	_
% Moisture: r	not dec.	-		Date Analyzed:	07/15/97	_
GC Column:	RTX-5	02 ID: 0.2	25 (mm)	Dilution Factor:	1.0	r
Soil Extract V	/olume: ຸ		(uL)	Soil Aliquot Volu	ıme:	(uL)
Number TICs	found:	0		ICENTRATION UNITS: . or ug/Kg) UG/L		

CAS NO.

COMPOUND

#### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	IEL	.D	ID
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Lab Name:	FMETL			Project			M	W33
NJDEP#	13461	Case	e No.: 2788	Locati	ion B.2	700 S	DG No.:	
Matrix: (soil/v	vater)	WATER			.ab Sam	ple ID:	2788.05	
Sample wt/vo	ol:	5.0	(g/ml) ML	L	ab File I	D:	V01286.D	<del></del>
Level: (low/n	ned)	LOW			ate Rec	eived:	07/10/97	<del></del>
% Moisture:	not dec.				ate Ana	iyzed:	07/15/97	
GC Column:	RTX-5	0.25 ID: 0.25	5 (mm)		ilution F	actor:	1.0	• •
Soil Extract V	/olume:		(uL)		Soil Aliqu	ot Volu	me:	(uL)
Number TICs	s found:	0		CONCENTRA (ug/L or ug/Ka		INITS: IG/L		
CAS NO.		COMPOUN	<b>I</b> D		RT	ES	T: CONC.	Q

## **Organic Data Qualifiers**

#### Form 1:

This form reports concentrations of Tentatively Identified Compounds. Form 1E is the Volatile report, Form 1F is for Semi-Volatiles.

#### Qualifiers are:

- J Estimated Value
- N Presumptive evidence of a compound
- E Concentration exceeds calibration range
- D Diluted sample
- A TIC is a suspected aldol condensation product

Data File Name

Operator

BN0323.D

Skelton

Sample Name

**Extraction Blank** 

C337

Field ID

07/15/97

1

07/31/97 14:11 Date Acquired Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol	1		not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1.4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol	1		not detected	0.18 ug/L	,,,
95-50-1	1,2-Dichlorobenzene	<u> </u>		not detected	0.16 ug/L	600
	2-Methylphenol	<del> </del>		not detected	0.14 ug/L	000
108-60-1	bis(2-chloroisopropyl)ether	<del> </del>		not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	500
621-64-7	n-Nitroso-di-n-propylamine	1		not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene	<u> </u>		not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	100
105-67-9	2,4-Dimethylphenol	<del> </del>		not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane		<del></del>	not detected	0.46 ug/L	100
120-83-2	2,4-Dichlorophenol			not detected	0.40 ug/L	20
65-85-0	Benzoic Acid			not detected	0.12 ug/L 0.26 ug/L	20
120-82-1	1,2,4-Trichlorobenzene	<del>                                     </del>		not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	9
106-47-8	4-Chloroaniline			not detected	0.23 ug/L 0.19 ug/L	•
87-68-3	Hexachlorobutadiene			not detected	0.19 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	1
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene		<del></del>	not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.42 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.31 ug/L	700
88-74-4	2-Nitroaniline			not detected	0.32 ug/L 0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.18 ug/L 0.19 ug/L	7000
606-20-2	2,6-Dinitrotoluene					
99-09-2	3-Nitroaniline			not detected	0.31 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.26 ug/L	400
21-20-3	2,4-Dimirophenoi			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran	not detected 0.32 ug/I	,
100-02-7	4-Nitrophenol	not detected 0.27 ug/I	,
121-14-2	2,4-Dinitrotoluene	not detected 0.36 ug/I	10
84-66-2	Diethylphthalate	not detected 0.82 ug/I	5000
86-73-7	Fluorene	not detected 0.29 ug/I	300
7005-72-3	4-Chlorophenyl-phenylether	not detected 0.31 ug/I	
100-01-6	4-Nitroaniline	not detected 0.90 ug/I	
534-52-1	4,6-Dinitro-2-methylphenol	not detected 0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected 0.23 ug/L	20
103-33-3	Azobenzene	not detected 0.80 ug/L	,
101-55-3	4-Bromophenyl-phenylether	not detected 0.55 ug/L	
118-74-1	Hexachiorobenzene	not detected 0.82 ug/L	10
87-86-5	Pentachlorophenol	not detected 1.08 ug/L	1
85-01-8	Phenanthrene	not detected 0.18 ug/L	
120-12-7	Anthracene	not detected 0.19 ug/I	2000
84-74-2	Di-n-butylphthalate	not detected 0.23 ug/L	900
206-44-0	Fluoranthene	not detected 0.41 ug/L	300
92-87-5	Benzidine	not detected 1.45 ug/L	50
129-00-0	Pyrene	not detected 0.32 ug/L	200
85-68-7	Butylbenzylphthalate	not detected 0.47 ug/L	100
56-55-3	Benzo[a]anthracene	not detected 0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine	not detected 0.46 ug/L	60
218-01-9	Chrysene	not detected 0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate	not detected 0.51 ug/L	30
117-84-0	Di-n-octylphthalate	not detected 0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene	not detected 0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene	not detected 0.32 ug/L	2
50-32-8	Benzo[a]pyrene	not detected 0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene	not detected 0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene	not detected 0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene	not detected 0.40 ug/L	

Data File Name bn0341.d

Date Acquired

Operator

Skelton

08/ 1/97 05:49

Sample Name

2788.02

Field ID

Field Blank

Sample Multiplier

1

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane	,		not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid	·		not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chioroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol	i		not detected	0.18 ug/L	·
91-57-6	2-Methylnaphthalene ·			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol	·····		not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	<u>-</u>
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	· · · · ·
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40
132-64-9	Dibenzofuran			not detected	0.32 ug/L	<u>-</u>
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10.

84-66-2	Diethylphthalate	not detected	0.82 ug/L	5000
86-73-7	Fluorene	not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether	not detected	0.31 ug/L	
100-01-6	4-Nitroaniline	not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	0.23 ug/L	20
103-33-3	Azobenzene	not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene	not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol	not detected	1.08 ug/L	1
85-01-8	Phenanthrene	not detected	0.18 ug/L	
120-12-7	Anthracene	not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	not detected	0.23 ug/L	900
206-44-0	Fluoranthene	not detected	0.41 ug/L	300
92-87-5	Benzidine	not detected	1.45 ug/L	50
129-00-0	Pyrene	not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate	not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene	not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine	not detected	0.46 ug/L	60
218-01-9	Chrysene	not detected	0.20 ug/L	20_
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate	not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene	not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene	not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene	not detected	0.31 ug/L	. 20
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene	not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene	not detected	0.40 ug/L	

Data File Name bn0342.d

Operator

Skelton

Date Acquired

08/ 1/97 06:36

Sample Name

2788.03

Field ID

Bldg 2700 MW30

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine	<u> </u>		not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10_
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol		·	not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene		-	not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroanifine	~		not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene		· · · · · · · · · · · · · · · · · · ·	not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chioronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40
132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10

84-66-2	TD:-45-1-45-1-4-	T T			0.00	
	Diethylphthalate	+		not detected	0.82 ug/L	5000
86-73-7	Fluorene	<u> </u>		not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether	<b>  </b>		not detected	0.31 ug/L	<u> </u>
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected_	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether_			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.44	82010	0.98 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	- 20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Data File Name bn0343.d

Operator

Skelton

Date Acquired

08/ 1/97 07:23

Sample Name

2788.04

Field ID

Bldg 2700 MW31

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	T
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chiorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohoi			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methyiphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone		-	not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	100
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol		· · · · · · · · · · · · · · · · · · ·	not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	<u> </u>
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachiorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	<del></del>
77-47-4	Hexachlorocyclopentadiene		· · · · · · · · · · · · · · · · · · ·	not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			<ul> <li>not detected</li> </ul>	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chioronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40
132-64-9	Dibenzofuran			not detected	0.32 ug/L	75
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene		<del></del>	not detected	0.36 ug/L	10

84-66-2	Diethylphthalate	not detected	0.82 ug/L	5000
86-73-7	Fluorene	not detected	0.29 ug/L	300
7005-72-3	4-Chiorophenyl-phenylether	not detected	0.31 ug/L	
100-01-6	4-Nitroaniline	not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	0.23 ug/L	20
103-33-3	Azobenzene	not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	0.55 ug/L	<u>-</u>
118-74-1	Hexachlorobenzene	not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol	not detected	1.08 ug/L	1
85-01-8	Phenanthrene	not detected	0.18 ug/L	
120-12-7	Anthracene	not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	not detected	0.23 ug/L	900
206-44-0	Fluoranthene	not detected	0.41 ug/L	300
92-87-5	Benzidine	not detected	1.45 ug/L	50
129-00-0	Pyrene	not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate	not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene	not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine	not detected	0.46 ug/L	60
218-01-9	Chrysene	not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate	not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene	not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene	not detected	0.32 ug/L	.2
50-32-8	Benzo[a]pyrene	not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene	not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene	not detected	0.40 ug/L	

Data File Name bn0345.d

Operator Date Acquired Skelton

08/ 1/97 08:59

Sample Name

2788.06

Field ID

Bldg 2700 MW32

Sample Multiplier

1

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline	<u> </u>		not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	20
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene	·		not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	, 555
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40
132-64-9	Dibenzofuran			not detected	0.32 ug/L	<u>'</u>
100-02-7	4-Nitrophenol	<u> </u>		not detected	0.27 ug/L	<del></del>
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10

84-66-2	Diethylphthalate	I		not detected	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	- 555
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	- 20
103-33-3	Azobenzene			not detected	0.80 ug/L	
<u> 101-55-3</u>	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenoi			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.44	153602	1.63 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32 <b>-</b> 8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Data File Name bn0344.d

Operator Date Acquired

Skelton

08/ 1/97 08:10

Sample Name

2788.05

Field ID

Bldg 2700 MW33

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	·
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol .			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	500
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline	-		not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene		·	not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	···
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	i
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	1000
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene	1		not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40
132-64-9	Dibenzofuran		<del></del>	not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10

84-66-2	Diethylphthalate		·	not detected	0.82 ug/L	5000
86-73-7	Fluorene	1 1	<del></del>	not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	300
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachiorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.44	180698	1.98 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMETL	Lab Code 134	461 SBLK
Project Case	No.: Location	SDG No.:
Matrix: (soil/water) WATER	Lab Sa	mple ID: Extraction Blan
Sample wt/vol: 1000	(g/ml) ML Lab File	e ID: BN0323.D
Level: (low/med) LOW	Date Re	eceived:
% Moisture: decan	ted: (Y/N) N Date Ar	nalyzed: 07/31/97
Concentrated Extract Volume: 100	00 (uL) Dilution	Factor: 1.0
Injection Volume: 1.0 (uL)	Soil Alic	quot Volume: 1 (uL)
GPC Cleanup: (Y/N) N pl	<del>1</del> : <u>7</u>	<del></del>
Number TICs found: 0	CONCENTRAT (ug/L or ug/Kg)	ION UNITS: UG/L
CAS NUMBER COMPOUN	D NAME RT	EST. CONC. Q

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMETL		Lab Code 13461	Field Blank
Project	Case No.: 2788	Location B.2700 SD	G No.:
Matrix: (soil/water)	WATER	Lab Sample ID: 2	2788.02
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN0341.D
Level: (low/med)	LOW	Date Received: (	07/10/97
% Moisture:	decanted: (Y/N)	N Date Analyzed: (	08/01/97
Concentrated Extract	Volume: <u>1000</u> (uL)	Dilution Factor:	1.0
Injection Volume: 1.	0 (uL)	Soil Aliquot Volum	ne: 1 (uL)
GPC Cleanup: (Y/N)	N pH: 7		· · · · · · · · · · · · · · · · · · ·
Number TICs found:	0	CONCENTRATION UNITS (ug/L or ug/Kg) UG/L	3:
CAS NUMBER	COMPOUND NAME	RT EST	CONC. Q

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMETL	Lab Code 13461	MW30
Project Case No.: 2788	Location B.2700 SDG	No.:
Matrix: (soil/water) WATER	Lab Sample ID: 27	788.03
Sample wt/vol: 1000 (g/ml) ML	Lab File ID: BI	N0342.D
Level: (low/med) LOW	Date Received: 07	7/10/97
% Moisture: decanted: (Y/N)	N Date Analyzed: 08	3/01/97
Concentrated Extract Volume: 1000 (uL)	Dilution Factor: 1.	0
Injection Volume: 1.0 (uL)	Soil Aliquot Volume	: 1 (uL)
GPC Cleanup: (Y/N) N pH: 7		
Number TICs found: 0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
CAS NUMBER COMPOUND NAME	RT EST.	CONC. Q

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMETL	Lab Code 13461	MVV31
Project Case No.: 2788	Location B.2700 SE	DG No.:
Matrix: (soil/water) WATER	Lab Sample ID:	2788.04
Sample wt/vol: 1000 (g/ml) ML	Lab File ID:	BN0343.D
Level: (low/med) LOW	Date Received:	07/10/97
% Moisture: decanted: (Y/N)	N Date Analyzed:	08/01/97
Concentrated Extract Volume: 1000 (uL)	Dilution Factor:	1.0
Injection Volume: 1.0 (uL)	Soil Aliquot Volun	ne: 1 (uL)
GPC Cleanup: (Y/N) N pH: 7		
Number TICs found: 0	CONCENTRATION UNIT	
CAS NUMBER COMPOUND NAME	RT EST	r. conc. Q

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name: FMETL	Lab Code 13461	MW32
Project Case No.: 2788	Location B.2700 SD	G No.:
Matrix: (soil/water) WATER	Lab Sample ID: 2	788.06
Sample wt/voi: 1000 (g/ml) ML	Lab File ID:	3N0345.D
Level: (low/med) LOW	Date Received: 0	7/10/97
% Moisture: decanted: (Y/N)	N Date Analyzed: 0	8/01/97
Concentrated Extract Volume: 1000 (uL)	Dilution Factor: 1	.0
Injection Volume: 1.0 (uL)	Soil Aliquot Volum	e: 1 (uL)
GPC Cleanup: (Y/N) N pH: 7	_	. :
	CONCENTRATION UNITS	<b>;</b> ;
Number TICs found: 2	(ug/L or ug/Kg) UG/L	
CAS NUMBER COMPOUND NAME	RT EST.	. CONC. Q
1. 000112-92-5 1-Octadecanol	24.98	9 JN
2. unknown hydrocarbon	27.13	11 J

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name: FMETL	•	Lab Code 13461	MW33	
Project	Case No.: 2788	Location B.2700 SE	OG No.:	
Matrix: (soil/water)	WATER	Lab Sample ID:	2788.05	
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN0344.D	-
Level: (low/med)	LOW	Date Received:	07/10/97	•
% Moisture:	decanted: (Y/N)	N Date Analyzed:	08/01/97	•
Concentrated Extract	:Volume: <u>1000</u> (uL)	Dilution Factor:	1.0	•
Injection Volume: 1	0 (uL)	Soil Aliquot Volun	ne: 1	uL)
GPC Cleanup: (Y/N)	N pH: 7		****	_
		CONCENTRATION UNIT	S:	
Number TICs found:		(ug/L or ug/Kg) UG/L		
CAS NUMBER	COMPOUND NAME	RT EST	F. CONC.	Q
1 000112 02 5	1 Octodooppol	24.00	4.4	15.1

unknown hydrocarbon

Client:

U.S. Army

Lab. ID#:

**Extraction Blank** 

DPW, SELFM-PW-EV

Date Rec'd:

NA

Bldg. 173

**Extraction Date:** 

7/14/97

Ft. Monmouth, NJ 07703

Analysis Date:

8/18/97

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

Ext. Meth:

Sep. Funnel

Bat. Meth. Sep. 1	r unner				
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	. ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND
ND = Not Detected	· · · · · · · · · · · · · · · · · · ·	Column Daim		51 5 60	/ 20mm/D / 25

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmlD/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID#:

2788.02

DPW, SELFM-PW-EV

Date Rec'd:

7/10/97

Bldg. 173

**Extraction Date:** 

7/14/97

Ft. Monmouth, NJ 07703

Analysis Date:

8/18/97

Analysis:

EPA Method 608

Location: CW-2

Matrix: Analyst:

Aqueous

D. Wright

Field ID:

Field Blank

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. 1	unnei				
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1	-	2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND.
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND
ND - Not Detected		Calarra Dai		D4 5 30-	(22

ND = Not Detected

Column-Primary:

Rtx-5 | 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID#:

2788.03

DPW, SELFM-PW-EV

Date Rec'd:

7/10/97

Bldg. 173

**Extraction Date:** 

7/14/97

Ft. Monmouth, NJ 07703

Analysis Date:

8/19/97

Analysis:

EPA Method 608

Location: CW-2

Matrix: Analyst: Aqueous

D. Wright

Field ID: MW-30

Evt Moth

Ext. Meth: Sep. Funnel						
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)	
alpha-BHC	1		0.02	0.0023	ND	
beta-BHC	1		0.20	0.0026	ND	
gamma-BHC	1		0.20	0.0026	ND	
delta-BHC	1		NA	0.0029	ND	
Heptachlor	1		0.40	0.0027	ND	
Aldrin	1		0.04	0.0028	ND	
Heptachlor Epoxide	1		0.20	0.0024	ND	
Endosulfan I	1		0.40	0.0024	ND	
4,4'-DDE	1		0.10	0.0034	ND	
Dieldrin	1		0.03	0.0019	ND	
Endrin	1		2.00	0.0030	ND	
Endrin Ketone	1		NA	0.0100	ND	
Endosulfan II	1		0.40	0.0027	ND	
4,4'-DDD	1		0.10	0.0066	ND	
4,4'-DDT	1		0.10	0.0015	ND	
Endosulfan-Sulfate	1		0.40	0.0010	ND	
Methoxychlor	1		NA	0.0100	ND	
Alpha-chlordane	1		0.50	0.0140	ND	
Gamma-chlordane	1		0.50	0.0140	ND	
Toxaphene	1		3.00	0.0182	ND	
Arochlor 1016	1		0.50	0.0640	ND	
Arochlor 1221	1		0.50	0.0500	ND	
Arochlor 1232	1		0.50	0.0500	ND	
Arochlor 1242	1		0.50	0.0280	ND	
Arochlor 1248	1		0.50	0.0500	ND	
Arochlor 1254	1		0.50	0.0500	ND	
Arochlor 1260	1		0.50	0.0680	ND	

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID#:

2788.04

DPW, SELFM-PW-EV

Date Rec'd:

7/10/97

Bldg. 173

**Extraction Date:** 

7/14/97

Ft. Monmouth, NJ 07703

Analysis Date:

8/19/97

Analysis:

EPA Method 608

Location: CW-2

Matrix:

Aqueous

Analyst:

D. Wright

Field ID: MW-31

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. 1	unnei	<u> </u>			
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	. 1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2:00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND

ND = Not Detected

Arochlor 1254

Arochlor 1260

Column-Primary:

1

1

Rtx-5 30m/.32mmID/.25um

0.0500

0.0680

MDL = Method Detection Limit

Column-Confirmation:

0.50

0.50

Rtx-1701 30m/.32mm1D/.25um

ND

ND

Client:

U.S. Army

Lab. ID #:

2788.06

DPW, SELFM-PW-EV

Date Rec'd:

7/10/97

Bldg. 173

**Extraction Date:** 

7/14/97

Ft. Monmouth, NJ 07703

Analysis Date:

8/19/97

Analysis:

EPA Method 608

Matrix:

Aqueous

Location: CW-2

Analyst:

D. Wright

Field ID: MW-32

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution	D-44:		[i	
	Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID#:

2788.05

DPW, SELFM-PW-EV

Date Rec'd:

7/10/97

Bldg. 173

**Extraction Date:** 

7/14/97

Ft. Monmouth, NJ 07703

Analysis Date:

8/19/97

Analysis:

EPA Method 608

Location: CW-2

Matrix:

Aqueous

Analyst:

D. Wright

Field ID: MW-33

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. 1	unnei				
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NA	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1	<u>-</u>	NA	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NA	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND '
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND
ND - Not Detected		71 D:	L	D+ 5 00	

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: Method Blank

Sample Received: NA

Sample Matrix: Aqueous

Site:

Bldg. 2700

Ft. Monmouth, New Jersey

Field ID#: NA

TAL-METALS RESULTS SUMMARY (ug/L)

Element Date of Result MDL GW						
Date of	Result	MDL	GW			
Analysis	(ug/L)	(ug/L)	Criteria (ug/L)			
08/21/97	ND	0.5	200			
08/12/97	ND	0.5	20			
08/05/97	ND ·	1.0	8			
10/21/97	ND	30.0	2000			
08/13/97	ND	0.06	20			
10/24/97	ND	2.0	4			
07/30/97	ND	30.0	NA			
07/24/97	ND	0.4	100			
09/22/97	ND	20.0	NA			
08/29/97	ND	3.0	1000			
08/27/97	ND	10.0	300			
07/18/97	ND	0.5	10			
08/27/97	7.0	5.0	50			
09/18/97	ND	50.0	NA			
08/06/97	ND	0.2	. 2			
08/29/97	ND	10.0	100			
09/18/97	ND	40.0	NA			
08/06/97	ND	1.0	50			
07/21/97	ND	3.0	20			
09/18/97	ND	10.0	50000			
08/06/97	ND	1.0	10			
08/04/97	ND	1.0	NA			
08/29/97	ND	2.0	5000			
	Date of Analysis 08/21/97 08/12/97 08/05/97 10/21/97 08/13/97 10/24/97 07/30/97 07/24/97 09/22/97 08/27/97 07/18/97 09/18/97 08/29/97 08/29/97 09/18/97 09/18/97 09/18/97 09/18/97 09/18/97 08/06/97 09/18/97	Date of Analysis         Result (ug/L)           08/21/97         ND           08/12/97         ND           08/05/97         ND           08/05/97         ND           10/21/97         ND           08/13/97         ND           10/24/97         ND           07/30/97         ND           07/24/97         ND           09/22/97         ND           08/29/97         ND           08/29/97         ND           08/27/97         ND           08/27/97         7.0           09/18/97         ND           08/06/97         ND           08/29/97         ND           08/06/97         ND           09/18/97         ND           09/18/97         ND           08/06/97         ND	Date of Analysis         Result (ug/L)         MDL (ug/L)           08/21/97         ND         0.5           08/12/97         ND         0.5           08/05/97         ND         1.0           10/21/97         ND         30.0           08/13/97         ND         0.06           10/24/97         ND         2.0           07/30/97         ND         30.0           07/24/97         ND         30.0           07/24/97         ND         3.0           08/29/97         ND         3.0           08/29/97         ND         3.0           08/27/97         ND         0.5           08/27/97         7.0         5.0           09/18/97         ND         50.0           08/06/97         ND         10.0           08/29/97         ND         10.0           08/06/97         ND         1.0           07/21/97         ND         3.0           09/18/97         ND         1.0           08/06/97         ND         1.0           08/06/97         ND         1.0           08/06/97         ND         1.0           08/06/97			

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 2788.02

Sample Received: 7/10/97

Sample Matrix: Aqueous

Site:

Bldg. 2700

Ft. Monmouth, New Jersey

Field ID#: Field Blank

TAL-METALS RESULTS SUMMARY (ug/L)

	TAL-METALS RESULTS SUMMARY (ug/L)						
Element	Date of	Result	MDL	GW			
	Analysis	(ug/L)	(ug/L)	Criteria (ug/L)			
Aluminum	08/21/97	12.7	0.5	200			
Antimony	08/12/97	ND	0.5	20			
Arsenic	08/05/97	ND	1.0	8			
Barium	10/21/97	ND	30.0	2000			
Beryllium	08/13/97	ND	0.06	20			
Cadmium	10/24/97	ND	2.0	4			
Calcium	07/30/97	220.0	30.0	NA			
Chromium	07/24/97	ND	0.4	100			
Cobalt	09/22/97	ND	20.0	NA			
Copper	08/29/97	ND	3.0	1000			
Iron	08/27/97	60.0	10.0	300			
Lead	07/18/97	ND	0.5	10			
Manganese	08/27/97	26.0	5.0	50			
Magnesium	09/18/97	90.0	50.0	NA			
Mercury	08/06/97	ND	0.2	2			
Nickel	08/29/97	ND	10.0	100			
Potassium	09/18/97	ND	40.0	NA			
Selenium	08/06/97	ND	1.0	50			
Silver	07/21/97	5.0	3.0	20			
Sodium	09/18/97	680.0	10.0	50000			
Thallium	08/06/97	ND	1.0	10			
Vanadium	08/04/97	ND	1.0	NA			
Zinc	08/29/97	2.0	2.0	5000			

## U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 2788.03

Sample Received: 7/10/97

Sample Matrix: Aqueous

Site:

Bldg. 2700

Ft. Monmouth, New Jersey

Field ID#:MW-30

TAL-METALS RESULTS SUMMARY (ug/L)

	AL-NETALS RE	POOPTO SOMMA	AKY (Ug/L)	
Element	Date of	Result	MDL	GW
	Analysis	(ug/L)	(ug/L)	Criteria (ug/L)
Aluminum	08/21/97	25.0	0.5	200
Antimony	08/12/97	ND	0.5	20
Arsenic	08/05/97	5.0	1.0	8
Barium	10/21/97	ND	30.0	2000
Beryllium	08/13/97	ND	0.06	20
Cadmium	10/24/97	2.0	2.0	4
Calcium	07/30/97	49030.0	30.0	NA
Chromium	07/24/97	1.0	0.4	100
Cobalt	09/22/97	20.0	20.0	NA
Copper	08/29/97	ND	3.0	1000
Iron	08/27/97	12590.0	10.0	200
Lead	07/18/97	ND	0.5	10
Manganese	08/27/97	73.0	5.0	50
Magnesium	09/18/97	5330.0	50.0	NA
Mercury	08/06/97	ND	0.2	2
Nickel	08/29/97	ND	10.0	100
Potassium	09/18/97	10420.0	40.0	NA
Selenium	08/06/97	2.0	1.0	50
Silver	07/21/97	6.0	3.0	20
Sodium	09/18/97	33050.0	10.0	50000
Thallium	08/06/97	ND	1.0	10
Vanadium	08/04/97	4.0	1.0	NA
Zinc	08/29/97	ND	2.0	5000

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 2788.04

Sample Received: 7/10/97

Sample Matrix: Aqueous

Site:

Bldg. 2700

Ft. Monmouth, New Jersey

. Field ID#:MW-31

TAL-METALS RESULTS SUMMARY (ug/L)

	TALFINETALS RESULTS SUMMARY (UE/L)						
Element	Date of	Result	MDL	GW			
	Analysis	(ug/L)	(ug/L)	Criteria (ug/L)			
Aluminum	08/21/97	ND	0.5	200			
Antimony	08/12/97	ND	0.5	20			
Arsenic	08/05/97	1.0	1.0	8			
Barium	10/21/97	ND	30.0	2000			
Beryllium	08/13/97	ND	0.06	20			
Cadmium	10/24/97	ND	2.0	4			
Calcium	07/30/97	41990.0	30.0	NA			
Chromium	07/24/97	ND	0.4	100			
Cobalt	09/22/97	ND	20.0	NA			
Copper	08/29/97	ND	3.0	1000			
Iron	08/27/97	11830.0	10.0	300			
Lead	07/18/97	ND	0.5	10			
Manganese	08/27/97	267.0	5.0	50			
Magnesium	09/18/97	5780.0	50.0	NA			
Mercury	08/06/97	ND	0.2	2			
Nickel	08/29/97	ND	10.0	100			
Potassium	09/18/97	9560.0	40.0	NA			
Selenium	08/06/97	1.0	1.0	50			
Silver	07/21/97	7.0	3.0	20			
Sodium	09/18/97	11420.0	10.0	50000			
Thallium	08/06/97	ND	1.0	10			
Vanadium	08/04/97	ND	1.0	NA			
Zinc	08/29/97	ND	2.0	5000			

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. ·173

Ft. Monmouth, NJ 07703

Lab ID #: 2788.06

Sample Received: 7/10/97

Sample Matrix: Aqueous

Site:

Bldg. 2700

Ft. Monmouth, New Jersey

Field ID#:MW-32

TAL-METALS RESULTS SUMMARY (ug/L)

	IL WOLFILD ICE	POLI 2 SOMMY	TICE (UE/L)	
Element	Date of	Result	MDL	GW
	Analysis	(ug/L)	(ug/L)	Criteria (ug/L)
Aluminum	08/21/97	2.1	0.5	200
Antimony	08/12/97	ND	0.5	20
Arsenic	08/05/97	1.0	1.0	8
Barium	10/21/97	ND	30.0	2000
Beryllium	08/13/97	ND	0.06	20
Cadmium	10/24/97	ND	2.0	4
Calcium	07/30/97	80510.0	30.0	NA
Chromium	07/24/97	ND	0.4	100
Cobalt	09/22/97	ND	20.0	NA
Copper	08/29/97	ND	3.0	1000
Iron	08/27/97	270.0	10.0	300
Lead	07/18/97	ND	0.5	10
Manganese	08/27/97	181.0	5.0	50
Magnesium	09/18/97	9830.0	50.0	NA
Mercury	08/06/97	ND	0.2	2
Nickel	08/29/97	ND	10.0	100
Potassium	09/18/97	8340.0	40.0	NA
Selenium	08/06/97	1.0	1.0	50
Silver	07/21/97	7.0	3.0	20
Sodium	09/18/97	22950.0	10.0	50000
Thallium	08/06/97	ND	1.0	10
Vanadium	08/04/97	ND	1.0	NA
Zinc	08/29/97	· 16.0	2.0	5000

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 2788.05

Sample Received: 7/10/97

Sample Matrix: Aqueous

Site:

Bldg. 2700

Ft. Monmouth, New Jersey

Field ID#:MW-33

TAL-METALS RESULTS SUMMARY (ug/L)

		ANT (UZ/LI)	
Date of	Result	MDL	GW
Analysis	(ug/L)	(ug/L)	Criteria (ug/L)
08/21/97	595.1	0.5	200
08/12/97	ND	0.5	20
08/05/97	ND	1.0	8
10/21/97	670.0	30.0	2000
08/13/97	0.08	0.06	20
10/24/97	ND	2.0	4
07/30/97	75930.0	30.0	NA
07/24/97	ND	0.4	100
09/22/97	ND	20.0	NA.
08/29/97	8.0	3.0	1000
08/27/97	10260.0	10.0	300
07/18/97	ND	0.5	10
08/27/97	519.0	5.0	50
09/18/97	8250.0	50.0	NA
08/06/97	ND	0.2	2
08/29/97	ND	10.0	100
09/18/97	12400.0	40.0	NA
08/06/97	ND	1.0	50
07/21/97	8.0	3.0	20
09/18/97	13630.0	10.0	50000
08/06/97	ND	1.0	10
08/04/97	ND	1.0	NA
08/29/97	24.0	2.0	5000
	Date of Analysis 08/21/97 08/12/97 08/05/97 10/21/97 08/13/97 10/24/97 07/30/97 07/24/97 09/22/97 08/27/97 07/18/97 08/27/97 09/18/97 08/29/97 08/29/97 08/29/97 09/18/97 08/06/97 07/21/97 09/18/97 08/06/97 08/06/97 08/06/97 08/06/97 08/06/97 08/06/97 08/06/97 08/06/97 08/06/97 08/06/97	Date of Analysis         Result (ug/L)           08/21/97         595.1           08/12/97         ND           08/05/97         ND           10/21/97         670.0           08/13/97         0.08           10/24/97         ND           07/30/97         75930.0           07/24/97         ND           09/22/97         ND           08/29/97         8.0           08/27/97         10260.0           07/18/97         ND           08/27/97         519.0           09/18/97         8250.0           08/06/97         ND           09/18/97         12400.0           08/06/97         ND           07/21/97         8.0           09/18/97         13630.0           08/06/97         ND           08/06/97         ND           08/06/97         ND           08/06/97         ND           08/06/97         ND           08/06/97         ND	Analysis         (ug/L)         (ug/L)           08/21/97         595.1         0.5           08/12/97         ND         0.5           08/05/97         ND         1.0           10/21/97         670.0         30.0           08/13/97         0.08         0.06           10/24/97         ND         2.0           07/30/97         75930.0         30.0           07/24/97         ND         0.4           09/22/97         ND         20.0           08/29/97         8.0         3.0           08/27/97         10260.0         10.0           07/18/97         ND         0.5           08/27/97         519.0         5.0           08/27/97         519.0         5.0           08/06/97         ND         10.0           08/29/97         ND         10.0           08/29/97         ND         10.0           08/06/97         ND         1.0           07/21/97         8.0         3.0           09/18/97         13630.0         10.0           08/06/97         ND         1.0           08/06/97         ND         1.0 <t< td=""></t<>

# FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

## DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



### ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

#### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3088.03	MW-30	29-32594	10/22/97
3088.04	MW-31	29-32595	10/22/97
3088.05	MW-32	29-32596	10/22/97
3088.06	MW-33	29-32597	10/22/97

NJDEP Laboratory Certification # 13461

Report Date: 8 January, 1998

Daniel Wright

Laboratory Director

## **METHODOLOGY SUMMARY**

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

# NJDEP Certification #13461

### Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil

Chain of Custody Record

Customer: J. Fallow Project No:					Analysis Parameters							Comments:		
Phone #: $x \downarrow$	6413	Location:	B16, 170	j j										
()JDERA ()OMA (	Other:		<i></i>				TAI	TLL	TCL					
Samplers Name / Cor	npany: Rry B. Gm. 151	TUS		Sample	#	VOA +_	METALS	BNA	PEST PEB				HNU	•
Lab Sample I.D.	Sample Location	Date	Time	Туре	bottles	15		355					77.	Remarks / Preservation Method
	TRIP Blank	14/11/97	0800	Aa	人	Х								All Samoles ILEPT = 40C
ot	Freid Blank		1000		5	X	x	x	X					VOA- HER
20	MW30 #2932594 MW30 #2932594 MW31 #2932595		1130										0	MeTALS- HNO3
٧٧	mn 31 #2931545		1140										O	
ا کو	MW 31 # M31596		1450										<u>J</u>	
06	Mw33+2931597 Field Dw		1410										U	
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Relinquished by (signature): Date/Time:		Received by (	signature):		Reling	equished by (signature):				Date/	Time:	Receiv	ed by (	signature):
51	Report Type: ()Full, ()Reduced, ()Standard, ()Screen / non-certified Remarks:  Curnaround time: ()Standard 4 wks, ()Rush Days, ()ASAP Verbal Hrs.													

SITE: CW-2 MW#: 30 NJDEP ID# 2932594 NJDEP CERT# 13461 SAMPLING CONTRATOR TVS SAMPLER RAY POGWIST DATE: 10/22/97 **WEATHER: SUNNY 50'S** ELEVATION OF CASING SURVEY MARK DTW: 7.60 DEPTH OF WELL: 17.90 HEIGHT OF WATER: 10.3 10.3 X 0.65 X 3 =20.085 GAL OF H2O TO BE EVACUATED: 20.2 GAL PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC PURGE RATE 0.2 **GPM** Hnu READING: PPM 0 PURGE START TIME: 9:45 pH: 6.70 TEMP 17.5 DEG °C DISSOLVED 02 2.6 PPM SPECIFIC CONDUCTIVITY PURGE END TIME: 11:26 pH: 6.66 TEMP 20.5 DEG °C DISSOLVED 02 4.2 PPM SPECIFIC CONDUCTIVITY 460 DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 12.0 FT sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer TOTAL VOLUME PURGED: 20.2 GAL pH: 6.65 TEMP 20.6 DEG °C DISSOLVED O2 4.1 PPM SPECIFIC CONDUCTIVITY 450 us/cm COMMENTS:

SITE: CW-2 MW#: 31 NJDEP ID# 2932595 NJDEP CERT# 13461 SAMPLING CONTRATOR TVS SAMPLER RAY POGWIST DATE: 10/22/97 WEATHER: SUNNY 50'S ELEVATION OF CASING SURVEY MARK DTW: 7.50 DEPTH OF WELL: 16.80 HEIGHT OF WATER: 9.30 9.30 X 0.65 X \_\_\_\_3\_\_=18.135 GAL OF H2O TO BE EVACUATED: 18.2 GAL PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC PURGE RATE 0.2 GPM Hnu READING: PPM 0 **PURGE START TIME: 10:00** pH: 6.84 TEMP 17.5 DEG °C DISSOLVED 02 3.0 PPM SPECIFIC CONDUCTIVITY 470 us/cm PURGE END TIME: 11:31 pH: 6.62 TEMP 19.4 DEG °C DISSOLVED 02 4.4 PPM SPECIFIC CONDUCTIVITY 340 us/cm DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 10.50 FT sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer TOTAL VOLUME PURGED: 18.2 GAL pH: 6.64 TEMP 19.3 DEG °C DISSOLVED O2 4.4 PPM SPECIFIC CONDUCTIVITY 330 us/cm COMMENTS:

SITE: CW-2 MW#: 32 NJDEP ID# 2932596 NJDEP CERT# 13461 SAMPLING CONTRATOR TVS SAMPLER RAY POGWIST DATE: 10/22/97 **WEATHER: SUNNY 50'S** ELEVATION OF CASING SURVEY MARK DTW: 7.70 DEPTH OF WELL: 16.80 HEIGHT OF WATER: 9.10 9.10 X 0.65 X \_\_\_\_3\_\_=17.745 GAL OF H2O TO BE EVACUATED: 17.8 GAL PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC **GPM** PURGE RATE 0.2 Hnu READING: PPM 0 **PURGE START TIME: 13:15** pH: 8.22 TEMP 18.1 DEG °C DISSOLVED O2 2.6 PPM SPECIFIC CONDUCTIVITY 360 us/cm PURGE END TIME: 14:49 pH: 7.38 TEMP 18.5 DEG °C DISSOLVED 02 3.6 PPM SPECIFIC CONDUCTIVITY 390 DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 12.30 FT sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer TOTAL VOLUME PURGED: 17.8 GAL pH: 7.35 TEMP 18.5 DEG °C DISSOLVED O2 3.8 PPM SPECIFIC CONDUCTIVITY 400 us/cm COMMENTS:

SITE: CW-2 MW#: 33 NJDEP ID# 2932597 NJDEP CERT# 13461 SAMPLING CONTRATOR TVS SAMPLER RAY POGWIST
DATE: 10/22/97 WEATHER: SUNNY 50'S
ELEVATION OF CASING SURVEY MARK DTW: 9.10 DEPTH OF WELL: 16.00 HEIGHT OF WATER: 6.90 6.90 X 0.65 X 3 =13.455 GAL OF H2O TO BE EVACUATED: 13.6 GAL PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM)PERISTALIC_ PURGE RATE
PURGE START TIME: 13:00 pH: 6.30 TEMP 18.1 DEG °C DISSOLVED O2 1.9 PPM SPECIFIC CONDUCTIVITY 460 us/cm
PURGE END TIME: 14:08 pH: 5.92 TEMP 20.3 DEG °C DISSOLVED O2 1.8 PPM SPECIFIC CONDUCTIVITY 330 us/cm
DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 9.15 FT sampling method : dedicated (law NJDEP FSPM 1992) teflon ® bailer TOTAL VOLUME PURGED: 13.6 GAL
pH: 5.96 TEMP 20.5 DEG °C DISSOLVED O2 1.8 PPM SPECIFIC CONDUCTIVITY 300 us/cm
COMMENTS:

### US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEPE # 13461

#### **Definition of Qualifiers**

MDL: Method Detection Limit

J : Compound identified below detection limit

B : Compound in both sample and blank

**D**: Results from dilution of sample

U : Compound searched for but not detected

Data File Name

v02292.d

Operator
Date Acquired

Skelton 10/24/19 -1:3: Sample Name

Daily Blank Daily Blank

Field ID Sample Multiplier

Daily E

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	~	na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L	<del> </del>	5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane		· · · · · ·	not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane	·		not detected	1.31 ug/L		na
75-35-4	1.1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L	<u> </u>	700
75-15-0	Carbon Disulfide			not detected		<u> </u>	<del></del>
75-09-2	Methylene Chloride	· ·		not detected	0.54 ug/L		na
156-60-5	trans-1,2-Dichloroethene			not detected	1.66 ug/L		2
75-35-3	1,1-Dichloroethane			not detected	0.50 ug/L		100
108-05-4	Vinyl Acetate			not detected	0.83 ug/L		70
78-93-3	2-Butanone	<del></del>		not detected	2.07 ug/L		na
,0,00	cis-1.2-Dichloroethene			not detected	2.06 ug/L		300
67-66-3	Chloroform	-		not detected	0.65 ug/L		10
75-55-6	1,1,1-Trichloroethane			not detected	0.43 ug/L		6
56-23-5	Carbon Tetrachloride			not detected	0.81 ug/L		30
71-43-2	Benzene				1.20 ug/L		2
107-06-2	1,2-Dichloroethane			not detected	0.51 ug/L		1
79-01-6	Trichloroethene			not detected	1.27 ug/L		2
78-87-5	1,2-Dichloropropane			not detected	0.94 ug/L	-	1
75-27-4	Bromodichloromethane			not detected	0.78 ug/L		1
110-75-8	2-Chloroethyl vinyl ether		·	not detected	0.77 ug/L		1
10061-01-5	cis-1,3-Dichloropropene			not detected	1.05 ug/L		па
108-10-1	4-Methyl-2-Pentanone			not detected	0.60 ug/L		na
108-88-3	Toluene			not detected	1.33 ug/L		400
10061-02-6	trans-1,3-Dichloropropene			not detected	0.73 ug/L		1000
79-00-5	1.1.2-Trichloroethane			not detected	1.43 ug/L		па
127-18-4	Tetrachloroethene			not detected	1.49 ug/L		3
591-78-6	2-Hexanone			not detected	0.92 ug/L		1
126-48-1	Dibromochloromethane			not detected	1.12 ug/L		na
108-90-7	Chlorobenzene			not detected	1.36 ug/L		10
				not detected	0.66 ug/L		4
100-41-4	Ethylbenzene	_	<u> </u>	not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 <b>ug/</b> L		2
541-73-1	1,3-Dichlorobenzene	_		not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene		Qualifiare	not detected	2.75 ug/L		600

**Qualifiers** 

B = Compound found in related blank

E = Value above linier range

Data File Name

v02293.d

Operator Date Acquired

Skelton 10/24/19 -1:4: Sample Name

3088.01

Field ID

Trip Blank

Sample Multiplier

ıse	Amount	MDL	Qualifie
	not detected	6.25 ug/L	

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	~	па
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		па
	Dichlorodifluoromethane		·	not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		
75-69-4	Trichlorofluoromethane	<del>                                     </del>		not detected	1.31 ug/L		na.
75-35-4	1.1-Dichloroethene			not detected	0.74 ug/L		na 2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		
75-09-2	Methylene Chloride			not detected	0.54 ug/L 1.66 ug/L		na 2
156-60-5	trans-1,2-Dichloroethene	_		not detected			
75-35-3	1.1-Dichloroethane			not detected	0.50 ug/L 0.83 ug/L		100
108-05-4	Vinyl Acetate			not detected			70
78-93-3	2-Butanone			not detected	2.07 ug/L		па
	cis-1,2-Dichloroethene				2.06 ug/L		300
67-66-3	Chloroform			not detected	0.65 ug/L		10
75-55-6	1,1,1-Trichloroethane				0.43 ug/L		6
56-23-5	Carbon Tetrachloride			not detected	0.81 ug/L		30
71-43-2	Benzene			not detected	1.20 ug/L		2
107-06-2	1,2-Dichloroethane			not detected	0.51 ug/L		1
79-01-6	Trichloroethene			not detected	1.27 ug/L		2
78-87-5				not detected	0.94 ug/L		1
75-27-4	1,2-Dichloropropane Bromodichloromethane			not detected	0.78 ug/L		1
110-75-8				not detected	0.77 ug/L		1.
10061-01-5	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		па
108-10-1	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-88-3	4-Methyl-2-Pentanone Toluene		<del></del>	not detected	1.33 ug/L		400
10061-02-6	<del></del>			not detected	0.73 ug/L		1000
79-00-5	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
127-18-4	1,1,2-Trichloroethane Tetrachloroethene			not detected	1.49 ug/L		3
591-78-6	2-Hexanone			not detected	0.92 ug/L		1
126-48-1	Dibromochloromethane			not detected	1.12 ug/L		na
108-90-7	Chlorobenzene	<del>  </del>		not detected	1.36 ug/L		10
100-41-4	Ethylbenzene	<del></del>		not detected	0.66 ug/L		4
1330-20-7	m+p-Xylenes		<del></del>	not detected	1.14 ug/L		700
1330-20-7	o-Xylene			not detected	2.53 ug/L		na
100-42-5	Styrene			not detected	1.92 ug/L		na
75-25-2	Bromoform			not detected	1.57 ug/L		100
79-34-5				not detected	1.68 ug/L		4
541-73-1	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L		2
	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene		Qualifiers	not detected	2.75 ug/L		600

#### Qualifiers

B = Compound found in related blank

E = Value above linier range

Data File Name Operator

v02294.d Skelton

Date Acquired 10/24/19 -1:5: Sample Name

3088.02 Field Blank

Field ID Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		па
	Dichlorodifluoromethane			not detected	3.63 ug/L		па
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate	_		not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.07 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
-67-66-3	Chloroform	<del></del> ,		not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.43 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene		· -	not detected	0.94 ug/L		
78-87-5	1,2-Dichloropropane			not detected	0.78 ug/L		1
75-27-4	Bromodichloromethane	-		not detected	0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		na l
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		
108-10-1	4-Methyl-2-Pentanone			not detected	1.33 ug/L		na 400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		704
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na i
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene	<u> </u>		not detected	0.66 ug/L	<del></del>	4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane	1		not detected	1.08 ug/L 1.71 ug/L		2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L	<del>  </del>	600
106-46-7	1,4-Dichlorobenzene	<del></del>		not detected			
95-50-1	1,2-Dichlorobenzene	<del></del>		not detected	3.08 ug/L		74

#### Qualifiers

B = Compound found in related blank

E = Value above linier range

Data File Name Operator

Date Acquired

v02297.d Skelton

10/24/19 -1:7:

Sample Name

3088.03

Field ID

MW30

Sample Multiplier 1

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	Quanters	па
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		па
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		па
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene	•	-	not detected	0.74 ng/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane		7	not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		
78-93-3	2-Butanone	<b></b>		not detected	2.07 ug/L		na 300
	cis-1,2-Dichloroethene			not detected	2.66 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane			not detected	0.43 ug/L		30
56-23-5	Carbon Tetrachloride	<del> </del>		not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected			
78-87-5	1,2-Dichloropropane			not detected	0.94 ug/L		1
75-27-4	Bromodichloromethane	-		not detected	0.78 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected	0.77 ug/L		<u> </u>
10061-01-5	cis-1,3-Dichloropropene			not detected	1.05 ng/L		na '
108-10-1	4-Methyl-2-Pentanone			not detected	0.60 ug/L		na
108-88-3	Toluene			not detected	1.33 ug/L 0.73 ug/L		400
10061-02-6	trans-1,3-Dichloropropene			not detected			1000
79-00-5	1,1,2-Trichloroethane	<del>                                     </del>		not detected	1.43 ug/L		па
127-18-4	Tetrachloroethene	<del>                                     </del>		not detected	1.49 ug/L		3
591-78-6	2-Hexanone			not detected	0.92 ug/L		1
126-48-1	Dibromochloromethane	-		not detected	1.12 ug/L		па
108-90-7	Chlorobenzene	<del></del>		not detected	1.36 ug/L		10
100-41-4	Ethylbenzene			not detected	0.66 ug/L		4
1330-20-7	m+p-Xylenes	· · · · · · · · · · · · · · · · · · ·		not detected	1.14 ug/L		700
1330-20-7	o-Xylene	<del></del>	<del></del>	not detected	2.53 ug/L		na .
100-42-5	Styrene				1.92 ug/L		na
75-25-2	Bromoform	<del>  </del>		not detected	1.57 ug/L		100
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.68 ug/L		4
541-73-1	1,3-Dichlorobenzene			not detected	1.71 ug/L		2
106-46-7	1,4-Dichlorobenzene			not detected	2.51 ug/L		600
95-50-1	1,2-Dichlorobenzene			not detected	3.08 ug/L		74
J- J-1	11,2 Dichiorouchizene		Onelifiano	not detected	2.75 ug/L		600

#### **Qualifiers**

B = Compound found in related blank

E = Value above linier range

Data File Name Operator v02298.d Skelton

Date Acquired 10/24/19 -1:8:

Sample Name

3088.04

Field ID

MW31

Sample Multiplier

107028   Aerolein	CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107131   Acrylonitrile	107028				not detected	6.25 ug/L	T	na
76560   text-Butyl alcohol   not detected   12.50 ug/L   co.					not detected			
1684044   Methyl-tert-Puyl ether					not detected			
Dischorostilucromethane					not detected	2.50 ug/L		
Dichlorodifluoromethane	108203	Di-isopropyl ether			not detected			
75-01-4		Dichlorodifluoromethane			not detected			па
75-01-4					not detected	0.79 ug/L		30
75-00-3	· · · · · · · · · · · · · · · · · · ·	Vinyl Chloride			not detected ·			- 5
75-00-3					not detected	1.45 ug/L		10
75-69-4   Trichlorothuromethane   not detected   1.31 ug/L   ma   75-35-4   1,1-Dichlorothene   not detected   0.74 ug/L   2   75-35-3   2   Methylene   not detected   0.54 ug/L   ma   1.56-60-5   mans-1,2-Dichlorothene   not detected   0.54 ug/L   ma   1.56-60-5   mans-1,2-Dichlorothene   not detected   0.50 ug/L   100   108-05-4   Vimyl Acetate   not detected   0.50 ug/L   100   108-05-4   Vimyl Acetate   not detected   0.50 ug/L   100   108-05-4   Vimyl Acetate   not detected   2.67 ug/L   ma   1.56-60-5   mans-1,2-Dichlorothene   not detected   0.50 ug/L   100   108-05-4   Vimyl Acetate   not detected   0.50 ug/L   100   108-05-4   Vimyl Acetate   not detected   0.65 ug/L   300   108-05-4   Vimyl Acetate   not detected   0.65 ug/L   300   108-05-5   1,1,1-Trichlorothane   not detected   0.65 ug/L   100   108-05-5   1,1,1-Trichlorothane   not detected   0.65 ug/L   0.60 ug/L   300   108-05-5   1,1,1-Trichlorothane   not detected   0.65 ug/L   0.65					not detected			na
75-35-4   1,1-Dichloroethene   not detected   1.57 ug/L   700		Trichlorofluoromethane			not detected			na
67-64-1   Acetone	75-35-4	1,1-Dichloroethene			not detected			
75-15-0   Carbon Disulfide	67-64-1	Acetone			not detected			
75-99-2	75-15-0	Carbon Disulfide			not detected			
156-60-5   trans-1,2-Dichloroethene   not detected   0.50 ug/L   100	75-09-2	Methylene Chloride			not detected			
75-35-3	156-60-5	trans-1,2-Dichloroethene			not detected			
108-05-4	75-35-3	1,1-Dichloroethane			not detected			
78-93-3   2-Butanone	108-05-4	Vinyl Acetate			<del></del>			
cis-1,2-Dichloroethene   not detected   0.65 mg/L   10	78-93-3	2-Butanone						
67-66-3   Chloroform		cis-1,2-Dichloroethene						
75-55-6   1,1,1-Trichloroethane   not detected   0.81 ug/L   20   26-23-5   Carbon Tetrachloride   not detected   1.20 ug/L   2   2   107-06-2   1,2-Dichloroethane   not detected   1.27 ug/L   2   2   79-01-6   Trichloroethane   not detected   0.94 ug/L   1   1   1   1   1   1   1   1   1	67-66-3	Chloroform						
Section   Sect	75-55-6	1,1,1-Trichloroethane						
71-43-2   Benzene	56-23-5	Carbon Tetrachloride						
107-06-2   1,2-Dichloroethane   not detected   1,27 ug/L   2   2   79-01-6   Trichloroethene   not detected   0,94 ug/L   1   1   78-87-5   1,2-Dichloropropane   not detected   0,78 ug/L   1   1   1   1   1   1   1   1   1	71-43-2	Benzene						
79-01-6         Trichloroethene         not detected         0.94 ug/L         1           78-87-5         1,2-Dichloropropane         not detected         0.78 ug/L         1           75-27-4         Bromodichloromethane         not detected         0.77 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 ug/L         na           10061-01-5         cis-1,3-Dichloropropene         not detected         0.60 ug/L         na           108-10-1         4-Methyl-2-Pentanone         not detected         1.33 ug/L         400           108-88-3         Toluene         not detected         0.73 ug/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         1.14 ug/L         700	107-06-2	1,2-Dichloroethane		· · · · · · · · · · · · · · · · · · ·	<del></del>			
78-87-5         1,2-Dichloropropane         not detected         0.78 ug/L         1           75-27-4         Bromodichloromethane         not detected         0.77 ug/L         1           110-75-8         2-Chloroethyl vinyl ether         not detected         1.05 ug/L         na           10061-01-5         cis-1,3-Dichloropropene         not detected         0.60 ug/L         na           108-10-1         4-Methyl-2-Pentanone         not detected         1.33 ug/L         400           108-88-3         Tolune         not detected         0.73 ug/L         1000           10061-02-6         trans-1,3-Dichloropropene         not detected         1.43 ug/L         na           79-00-5         1,1,2-Trichloroethane         not detected         1.49 ug/L         3           127-18-4         Tetrachloroethene         not detected         0.92 ug/L         1           591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         1.60 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700	79-01-6	Trichloroethene						_
75-27-4   Bromodichloromethane   not detected   0.77 ug/L   1   1   1   1   1   1   1   1   1	78-87-5	1,2-Dichloropropane					-	
110-75-8   2-Chloroethyl vinyl ether   not detected   1.05 ug/L   na	75-27-4	Bromodichloromethane	-					
10061-01-5   cis-1,3-Dichloropropene   not detected   0.60 ug/L   na	110-75-8	2-Chloroethyl vinyl ether						
108-10-1    4-Methyl-2-Pentanone	10061-01-5							
108-88-3   Toluene	108-10-1							
10061-02-6   trans-1,3-Dichloropropene   not detected   1.43 ug/L   na	108-88-3	Toluene						
79-00-5	10061-02-6	trans-1,3-Dichloropropene						
127-18-4   Tetrachloroethene   not detected   0.92 ug/L   1	79-00-5							
591-78-6         2-Hexanone         not detected         1.12 ug/L         na           126-48-1         Dibromochloromethane         not detected         1.36 ug/L         10           108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         2.53 ug/L         na           1330-20-7         o-Xylene         not detected         1.92 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74	127-18-4	Tetrachloroethene					-	
126-48-1   Dibromochloromethane   not detected   1.36 ug/L   10	591-78-6	2-Hexanone		<del></del>				
108-90-7         Chlorobenzene         not detected         0.66 ug/L         4           100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         2.53 ug/L         na           1330-20-7         o-Xylene         not detected         1.92 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74	126-48-1	Dibromochloromethane					·	
100-41-4         Ethylbenzene         not detected         1.14 ug/L         700           1330-20-7         m+p-Xylenes         not detected         2.53 ug/L         na           1330-20-7         o-Xylene         not detected         1.92 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74	108-90-7	Chlorobenzene					<del></del>	
1330-20-7         m+p-Xylenes         not detected         2.53 ug/L         na           1330-20-7         o-Xylene         not detected         1.92 ug/L         na           100-42-5         Styrene         not detected         1.57 ug/L         100           75-25-2         Bromoform         not detected         1.68 ug/L         4           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 ug/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74	100-41-4	Ethylbenzene						
1330-20-7   0-Xylene   not detected   1.92 ug/L   na	1330-20-7		1					
100-42-5   Styrene			1		<del></del>			
75-25-2         Bromoform         not detected         1.57 kg/L         100           79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.71 kg/L         2           541-73-1         1,3-Dichlorobenzene         not detected         2.51 kg/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 kg/L         74			<del>  </del>					
79-34-5         1,1,2,2-Tetrachloroethane         not detected         1.58 ug/L         4           541-73-1         1,3-Dichlorobenzene         not detected         2.51 ug/L         600           106-46-7         1,4-Dichlorobenzene         not detected         3.08 ug/L         74           25-50-1         1-2 Dichlorobenzene         not detected         3.08 ug/L         74			<del>-  </del>				<del></del>	
541-73-1     1,3-Dichlorobenzene     not detected     1.71 ug/L     2       106-46-7     1,4-Dichlorobenzene     not detected     3.08 ug/L     74       25-50-1     1,2 Dichlorobenzene     1,2 Dichlorobenzene     74			<del>  </del>					
106-46-7 1,4-Dichlorobenzene not detected 3.08 ug/L 74				<del></del>				
95-50-1 1.2 Dighlorshowana 3.08 ug/L 74								
	95-50-1	1,2-Dichlorobenzene			not detected	3.08 ug/L 2.75 ug/L		600

**Qualifiers** 

B = Compound found in related blank

E = Value above linier range

Data File Name Operator v02299.d Skelton

Date Acquired 10/24/19 -1:8:

Sample Name

3088.05

Field ID

MW32

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein	_		not detected	6.25 ug/L		na
107131	Acrylonitrile	:		not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ng/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		па
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L	,	па
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene			not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L		700
75~15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane		·-·-	not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		па
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1.2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform			not detected	0.43 ug/L		6
75-55-6	1.1.1-Trichloroethane			not detected	0.43 ug/L		30
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		2
71-43-2	Benzene			not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		1
78-87-5	1,2-Dichloropropane	<del>-    </del>		not detected	0.94 ug/L 0.78 ug/L		
75-27-4	Bromodichloromethane			not detected	0.78 ug/L 0.77 ug/L		1
110-75-8	2-Chloroethyl vinyl ether			not detected			
10061-01-5	cis-1,3-Dichloropropene		···	not detected	1.05 ug/L		na
108-10-1	4-Methyl-2-Pentanone			not detected	0.60 ug/L 1.33 ug/L		na
108-88-3	Toluene			not detected	0.73 ug/L		400
10061-02-6	trans-1,3-Dichloropropene	<del></del>		not detected	0.73 ug/L 1.43 ug/L		1000
79-00-5	1,1,2-Trichloroethane			not detected	1.43 ug/L 1.49 ug/L		na 3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L	·	na ·
126-48-1	Dibromochloromethane.	1		not detected	1.12 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		
100-41-4	Ethylbenzene	<del> </del>		not detected	0.06 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		
1330-20-7	o-Xylene			not detected	2.33 ug/L 1.92 ug/L		na
100-42-5	Styrene			not detected	1.92 ug/L 1.57 ug/L		100
75-25-2	Bromoform			not detected			100
79-34-5	1,1,2,2-Tetrachloroethane	-	<del></del>	not detected	1.68 ug/L		4
541-73-1	1,3-Dichlorobenzene			not detected	1.71 ug/L		2
106-46-7	1,4-Dichlorobenzene			not detected	2.51 ug/L		600
95-50-1	1,2-Dichlorobenzene	<del></del>		not detected	3.08 ug/L 2.75 ug/L		74

Qualifiers

B = Compound found in related blank

E = Value above linier range

Data File Name Operator

Date Acquired

v02300.d Skelton

10/24/19 -1:9:

Sample Name Field ID 3088.06 MW33

Sample Multiplier

1

CAS#	Name	R.T.	Response	Amount	MDL	Oualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L	£ 2000000	na
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L		10
75-00-3	Chloroethane			not detected	2.20 ug/L		na
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1,1-Dichloroethene	_		not detected	0.74 ug/L		2
67-64-1	Acetone			not detected	1.57 ug/L	······	700
75-15-0	Carbon Disulfide			not detected	0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		na
78-93-3	2-Butanone			not detected	2.06 ug/L		300
	cis-1,2-Dichloroethene			not detected	0.65 ug/L		10
67-66-3	Chloroform		-	not detected	0.43 ug/L		6
75-55-6	1,1,1-Trichloroethane	_		not detected	0.43 ug/L 0.81 ug/L		_
56-23-5	Carbon Tetrachloride			not detected	1.20 ug/L		30 2
71-43-2	Велгене		-	not detected	0.51 ug/L		1
107-06-2	1,2-Dichloroethane			not detected	1.27 ug/L		2
79-01-6	Trichloroethene			not detected	0.94 ug/L		
78-87-5	1,2-Dichloropropane			not detected	0.74 ug/L	**	1
75-27-4	Bromodichloromethane			not detected	0.78 ug/L 0.77 ug/L		- 1
110-75-8	2-Chloroethyl vinyl ether			not detected	1.05 ug/L		
10061-01-5	cis-1,3-Dichloropropene			not detected	0.60 ug/L		na
108-10-1	4-Methyl-2-Pentanone		-	not detected	1.33 ug/L		na 400
108-88-3	Toluene			not detected	0.73 ug/L		1000
10061-02-6	trans-1,3-Dichloropropene			not detected	1.43 ug/L		na
79-00-5	1,1,2-Trichloroethane			not detected	1.49 ug/L		3
127-18-4	Tetrachloroethene			not detected	0.92 ug/L		1
591-78-6	2-Hexanone			not detected	1.12 ug/L		na
126-48-1	Dibromochloromethane			not detected	1.36 ug/L		10
108-90-7	Chlorobenzene			not detected	0.66 ug/L		4
100-41-4	Ethylbenzene			not detected	1.14 ug/L		700
1330-20-7	m+p-Xylenes			not detected	2.53 ug/L		na
1330-20-7	o-Xylene			not detected	1.92 ug/L		na
100-42-5	Styrene			not detected	1.57 ug/L		100
75-25-2	Bromoform			not detected	1.68 ug/L		4
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1.71 ug/L	·	2
541-73-1	1,3-Dichlorobenzene			not detected	2.51 ug/L		600
106-46-7	1,4-Dichlorobenzene			not detected	3.08 ug/L		74
95-50-1	1,2-Dichlorobenzene			not detected	2.75 ug/L		600

#### **Qualifiers**

B = Compound found in related blank

E = Value above linier range

Data File Name Operator

v02301.d Skelton

Date Acquired 10/24/19 -1:0: Sample Name Field ID

3088.07 Field Dup

Sample Multiplier

CAS#	Name	R.T.	Response	Amount	MDL	Qualifiers	GW Criteria
107028	Acrolein			not detected	6.25 ug/L		па
107131	Acrylonitrile			not detected	6.25 ug/L		na
75650	tert-Butyl alcohol			not detected	12.50 ug/L		na
1634044	Methyl-tert-Butyl ether			not detected	2.50 ug/L		na na
108203	Di-isopropyl ether			not detected	1.25 ug/L		na
	Dichlorodifluoromethane			not detected	3.63 ug/L		na
74-87-3	Chloromethane			not detected	0.79 ug/L		30
75-01-4	Vinyl Chloride			not detected	2.61 ug/L		5
74-83-9	Bromomethane			not detected	1.45 ug/L	·	10
75-00-3	Chloroethane			not detected	2.20 ug/L		
75-69-4	Trichlorofluoromethane			not detected	1.31 ug/L		na
75-35-4	1.1-Dichloroethene	<del>"  </del>		not detected	0.74 ug/L		na 2
67-64-1	Acetone			not detected			700
75-15-0	Carbon Disulfide			not detected	1.57 ug/L 0.54 ug/L		na
75-09-2	Methylene Chloride			not detected	1.66 ug/L		2
156-60-5	trans-1,2-Dichloroethene			not detected	0.50 ug/L		100
75-35-3	1,1-Dichloroethane			not detected	0.83 ug/L		70
108-05-4	Vinyl Acetate			not detected	2.07 ug/L		
78-93-3	2-Butanone			not detected	2.07 ug/L 2.06 ug/L		па
	cis-1,2-Dichloroethene	<del>                                     </del>	·	not detected			300
67-66-3	Chloroform	1		not detected	0.65 ug/L		10
75-55-6	1.1.1-Trichloroethane			not detected	0.43 ug/L		6
56-23-5	Carbon Tetrachloride			not detected	0.81 ug/L		30
71-43-2	Benzene	<del> </del>		not detected	1.20 ug/L		2
107-06-2	1,2-Dichloroethane			not detected	0.51 ug/L 1.27 ug/L		1
79-01-6	Trichloroethene		· · · · · · · · · · · · · · · · · · ·	not detected	0.94 ug/L		2
78-87-5	1,2-Dichloropropane	<del>  </del>		not detected	0.94 ug/L 0.78 ug/L		1
75-27-4	Bromodichloromethane			not detected			1
110-75-8	2-Chloroethyl vinyl ether			not detected	0.77 ug/L		1
10061-01-5	cis-1,3-Dichloropropene	1		not detected	1.05 ug/L		na
108-10-1	4-Methyl-2-Pentanone	_		not detected	0.60 ug/L		па
108-88-3	Toluene			not detected	1.33 ug/L		400
10061-02-6	trans-1,3-Dichloropropene			not detected	0.73 ug/L		1000
79-00-5	1,1,2-Trichloroethane	+		not detected	1.43 ug/L		па
127-18-4	Tetrachloroethene	<del></del>		not detected	1.49 ug/L		3
591-78-6	2-Hexanone	1		not detected	0.92 ug/L		1
126-48-1	Dibromochloromethane	<del>                                     </del>		not detected	1.12 ug/L		na
108-90-7	Chlorobenzene	<del>                                     </del>	<del></del>	not detected	1.36 ug/L		10
100-41-4	Ethylbenzene	<del>                                     </del>	<del></del>	not detected	0.66 ug/L		700
1330-20-7	m+p-Xylenes	1	<del></del>	not detected	1.14 ng/L		700
1330-20-7	o-Xylene	<del>                                     </del>	·	not detected	2.53 ug/L		па
100-42-5	Styrene	<del></del>		not detected	1.92 ug/L		na 100
75-25-2	Bromoform	<del></del>		not detected	1.57 ug/L	· · · · · · · · · · · · · · · · · · ·	100
79-34-5	1,1,2,2-Tetrachloroethane	<del>-  </del>			1.68 ug/L		4
541-73-1	1,3-Dichlorobenzene	-		not detected	1.71 ug/L		2
106-46-7	1,4-Dichlorobenzene			not detected	2.51 ug/L	<del>  </del>	600
95-50-1	1,2-Dichlorobenzene	<del></del>		not detected	3.08 ug/L		74
	1-,2 Diemoroccizene		Qualifiers	not detected	2.75 ug/L		600

#### **Qualifiers**

B = Compound found in related blank

E = Value above linier range

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD	ID.
-------	-----

Lab Name: FMET	L	NJDEP# 13461	Daily Blank
Project:	Case No.: 3088	Location: CW2 SD0	G No.:
Matrix: (soil/water)	WATER	Lab Sample ID: D	aily Blank
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID: V	02292.D
Level: (low/med)	LOW	Date Received: 1	0/23/97
% Moisture: not dec	-	Date Analyzed: 1	0/24/97
GC Column: Rtx5	02.2 ID: 0.25 (mm)	Dilution Factor: 1	.0
Soil Extract Volume:	(uL)	Soil Aliquot Volume	e: (uL)
	Co	ONCENTRATION UNITS:	
Number TICs found:	0 (u	g/L or ug/Kg) UG/L	
CAS NO.	COMPOUND	RT EST.	CONC. Q

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Lab Name: FMETL	•	NJDEP# 13461	Trip Blank
Project:	Case No.: 308	Location: CW2 SD	G No.:
Matrix: (soil/water)	WATER	Lab Sample ID: 3	3088.01
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID:	/02293.D
Level: (low/med)	LOW	Date Received: 1	0/23/97
% Moisture: not dec.		Date Analyzed: 1	0/24/97
GC Column: Rtx50	2.2 ID: 0.25 (mm)	Dilution Factor: 1	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volum	e: (uL)
		CONCENTRATION UNITS:	<i>:</i>
Number TICs found:	0	(ug/L or ug/Kg) UG/L	<del></del>
CAS NO.	COMPOUND	RT EST	CONC. Q

VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Lab Name: FME	TL	NJDEP# 13461	Field Blank
Project:	Case No.: 3088	Location: CW2 S	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3088.02
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID:	V02294.D
Level: (low/med)	LOW	Date Received:	10/23/97
% Moisture: not de	C	Date Analyzed:	10/24/97
GC Column: Rtx	502.2 ID: 0.25 (mm)	Dilution Factor:	1.0
Soil Extract Volume	e: (uL)	Soil Aliquot Volu	me: (uL)
Number TICs found	d: <u> </u>	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
CAS NO.	COMPOUND	RT ES	ST. CONC. Q

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FM	ETL	NJDEP# 13461	MW30
Project:	Case No.: 3088	Location: CW2 SI	DG No.:
Matrix: (soil/wate	) <u>WATER</u>	Lab Sample ID:	3088.03
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID:	V02297.D
Level: (low/med)	LOW	Date Received:	10/23/97
% Moisture: not d	ec	Date Analyzed:	10/24/97
GC Column: R	tx502.2 ID: <u>0.25</u> (mm)	Dilution Factor:	1.0
Soil Extract Volur	ne: (uL)	Soil Aliquot Volun	ne: (uL)
-		CONCENTRATION UNITS:	
Number TICs fou	nd: <u>1</u>	(ug/L or ug/Kg) UG/L	· <del></del>
CAS NO.	COMPOUND	RT ES	T. CONC. Q
1.	unknown hydrocarbon	13.83	6 1

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMETL		NJDEP# 13461	MW31
Project:	Case No.: 3088	Location: CW2 SI	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3088.04
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID:	V02298.D
Level: (low/med)	LOW	Date Received:	10/23/97
% Moisture: not dec.		Date Analyzed:	10/24/97
GC Column: Rtx50	02.2 ID: 0.25 (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volur	me: (uL)
·	С	ONCENTRATION UNITS:	
Number TICs found:	1(u	ıg/L or ug/Kg) UG/L	<del></del> -
CAS NO.	COMPOUND	RT ES	T. CONC. Q
1.	unknown hydrocarbon	13.83	11 J

#### 1E VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Lab Name: FMETL		NJDEP# 13461	MW32
Project:	Case No.: 3088	Location: CW2 SD	G No.:
Matrix: (soil/water)	WATER	Lab Sample ID: 3	3088.05
Sample wt/vol:	5.0 (g/ml) ML	_ Lab File ID: \	√02299.D
Level: (low/med)	LOW	Date Received: 1	10/23/97
% Moisture: not dec.		Date Analyzed: 1	10/24/97
GC Column: Rtx50	2.2 ID: 0.25 (mm)	Dilution Factor: 1	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volum	ne: (uL)
Number TICs found:	,	NCENTRATION UNITS: L or ug/Kg) <u>UG/L</u>	
CAS NO.	COMPOUND	RT EST	CONC. Q

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMETI		NJDEP# 13461	MW	33
Project:	Case No.: 3088	Location: CW2 S	DG No.:	
Matrix: (soil/water)	WATER	Lab Sample ID:	3088.06	
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID:	V02300.D	
Level: (low/med)	LOW	Date Received:	10/23/97	<del></del>
% Moisture: not dec.		Date Analyzed:	10/24/97	<del></del>
GC Column: Rtx50	02.2 ID: 0.25 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:	(uL)	Soil Aliquot Volu	me:	(uL)
Number TICs found:	2	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L		
CAS NO.	COMPOUND	RT ES	ST. CONC.	Q
1.	unknown hydrocarbon	6.50	10	J

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

Lab Name: FMETL		NJDEP# 13461	Field Dup
Project:	Case No.: 3088	Location: CW2 SD	G No.:
Matrix: (soil/water)	WATER	Lab Sample ID: 3	3088.07
Sample wt/voi:	5.0 (g/ml) ML	Lab File ID:	V02301.D
Level: (low/med)	LOW	Date Received:	10/23/97
% Moisture: not dec.		Date Analyzed:	10/24/97
GC Column: Rtx50	2.2 ID: <u>0.25</u> (mm)	Dilution Factor: 1	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volum	ne: (uL)
		CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	
Number TICs found:	0	(ug/L or ug/Ng)	
CAS NO.	COMPOUND	RT EST	CONC. Q

Data File Name

bn0636.d

Sample Name

**Extraction Blank** 

Operator

Skelton

Field ID

10/27/97

1

Date Acquired

10/28/97 17:38

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol	<u> </u>		not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether	<u> </u>		not detected	0.61 ug/L	300
	4-Methylphenol	1		not detected	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	100
120-83-2	2,4-Dichlorophenol	,		not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene		·	not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate	16.42	146079	1.66 ug/L	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	-
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene		-	not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate			not detected	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55 <b>-</b> 3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Data File Name

bn0642.d

Operator Date Acquired

Skelton

10/28/97 21:53

Sample Name

3088.02

Field ID

Field Blank

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine	<u> </u>		not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol	1		not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	,,,
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	300
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	200
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone			not detected	0.46 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	100
105-67-9	2,4-Dimethylphenol		<del></del>	not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane		<del></del>	not detected	0.46 ug/L	100
120-83-2	2,4-Dichlorophenol			not detected	0.46 ug/L	20
65-85-0	Benzoic Acid			not detected	0.12 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	9 .
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol		· · · · · · · · · · · · · · · · · · ·	not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	- 700
88-74-4	2-Nitroaniline		-	not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	, 550
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene	•		not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40
				1101 3000000	0.07 ug/L	40

132-64-9	Dibenzofuran	T		not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate	16.43	173075	1.90 ug/L	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol		············	not detected	0.44 ug/L	-
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene		····	not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.29	203159	1.35 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Data File Name

bn0643.d

Sample Name

3088.03

Operator

Skelton

Field ID

MW30

1

Date Acquired

10/28/97 22:36

Sample Multiplier

GW CAS# Name R.T. Response Amount **MDL** Criteria 110-86-1 Pyridine not detected 5.00 ug/L 62-75-9 N-nitroso-dimethylamine not detected 0.94 ug/L 20 62-53-3 Aniline 0.15 ug/L not detected 108-95-2 Phenol not detected 0.47 ug/L 4000 111-44-4 bis(2-Chloroethyl)ether not detected 0.48 ug/L 10 95-57-8 2-Chlorophenol not detected 0.18 ug/L 40 541-73-1 1,3-Dichlorobenzene not detected 0.15 ug/L 600 106-46-7 1,4-Dichlorobenzene not detected 0.23 ug/L 75 100-51-6 Benzyl alcohol not detected 0.18 ug/L 95-50-1 1,2-Dichlorobenzene not detected 0.16 ug/L 600 2-Methylphenol not detected 0.14 ug/L 108-60-1 bis(2-chloroisopropyl)ether 0.61 ug/L not detected 300 4-Methylphenol 0.14 ug/L not detected 621-64-7 n-Nitroso-di-n-propylamine not detected 0.36 ug/L 20 67-72-1 Hexachloroethane not detected 0.33 ug/L 10 98-95-3 Nitrobenzene not detected 0.46 ug/L 10 78-59-1 Isophorone not detected 0.35 ug/L 100 88-75-5 2-Nitrophenol not detected 0.23 ug/L 105-67-9 2,4-Dimethylphenol not detected 0.27 ug/L 100 111-91-1 bis(2-Chloroethoxy)methane not detected 0.46 ug/L 120-83-2 2,4-Dichlorophenol not detected 0.12 ug/L 20 65-85-0 Benzoic Acid not detected 0.26 ug/L 120-82-1 1,2,4-Trichlorobenzene not detected 0.25 ug/L 9 91-20-3 Naphthalene not detected 0.25 ug/L 106-47-8 4-Chloroaniline not detected 0.19 ug/L 87-68-3 Hexachlorobutadiene not detected 0.38 ug/L 1 59-50-7 4-Chloro-3-methylphenol not detected 0.18 ug/L 91-57-6 2-Methylnaphthalene not detected 0.16 ug/L 77-47-4 Hexachlorocyclopentadiene not detected 1.50 ug/L 50 88-06-2 2,4,6-Trichlorophenol not detected 0.42 ug/L 20 2,4,5-Trichlorophenol not detected 0.31 ug/L 700 91-58-7 2-Chloronaphthalene not detected 0.32 ug/L 88-74-4 2-Nitroaniline not detected 0.21 ug/L 131-11-3 Dimethylphthalate not detected 0.18 ug/L 7000 208-96-8 Acenaphthylene not detected 0.19 ug/L 606-20-2 2,6-Dinitrotoluene not detected 0.31 ug/L 99-09-2 3-Nitroaniline not detected 0.26 ug/L 83-32-9 Acenaphthene not detected 0.26 ug/L 400 2,4-Dinitrophenol 51-28-5 not detected 0.69 ug/L 40

132-64-9	Dibenzofuran	T		not detected	0.32 ug/L	T
100-02-7	4-Nitrophenol		·	not detected	0.32 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate	16.43	425642	4.74 ug/L	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	300
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene		·	not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.30	707494	4.73 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate	23.77	75719	1.01 ug/L	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Data File Name

bn0644.d

Sample Name

3088.04

Operator

Skelton

Field ID

MW31

Date Acquired

10/28/97 23:18

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine	· ·		not detected	0.94 ug/L	20
62-53-3	Aniline			not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol			not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene	İ		not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	200
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.33 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone		<u> </u>	not detected	0.35 ug/L	100
88-75-5	2-Nitrophenol			not detected	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	0.27 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane			not detected	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene	-		not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene		· · · · · · · · · · · · · · · · · · ·	not detected	0.19 ug/L	-,000
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09 <b>-</b> 2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40
				and describe	0.07 ug/L	70

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate	16.43	153490	1.58 ug/L	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	200
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	<del> </del>
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.29	210883	1.30 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
<b>85-68-7</b>	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Data File Name

bn0645.d

Sample Name

3088.05

Operator

Skelton

Field ID

MW32

Date Acquired

10/29/97 00:00

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine			not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline	<del></del>		not detected	0.15 ug/L	
108-95-2	Phenol	1 -		not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether	<u> </u>		not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol	<u> </u>		not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene	1		not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene	ĺ		not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol	†		not detected	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	0.16 ug/L	600
	2-Methylphenol			not detected	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether	<del></del>		not detected	0.61 ug/L	300
	4-Methylphenol			not detected	0.14 ug/L	300
621-64-7	n-Nitroso-di-n-propylamine			not detected	0.36 ug/L	20
67-72-1	Hexachloroethane			not detected	0.36 ug/L	10
98-95-3	Nitrobenzene			not detected	0.46 ug/L	10
78-59-1	Isophorone	<u> </u>		not detected	0.46 lg/L 0.35 ug/L	
88-75-5	2-Nitrophenol	· · · · · · · · · · · · · · · · · · ·	i	not detected		100
105-67-9	2,4-Dimethylphenol		<u> </u>	not detected	0.23 ug/L	100
111-91-1	bis(2-Chloroethoxy)methane	<del>                                     </del>		not detected	0.27 ug/L 0.46 ug/L	100
120-83-2	2,4-Dichlorophenol	<u> </u>		not detected	0.48 ug/L 0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.12 ug/L 0.26 ug/L	20
120-82-1	1,2,4-Trichlorobenzene	<del> </del>		not detected		
91-20-3	Naphthalene	<del> </del>		not detected	0.25 ug/L	9
106-47-8	4-Chloroaniline			not detected	0.25 ug/L 0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	·	·
59-50-7	4-Chloro-3-methylphenol			not detected	0.38 ug/L 0.18 ug/L	1
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	1.50 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	50
00 00 2	2,4,5-Trichlorophenol		<del></del>	not detected	0.42 ug/L	700
91-58-7	2-Chloronaphthalene		<del>   -</del>	not detected		/00
88-74-4	2-Nitroaniline	····		not detected	0.32 ug/L 0.21 ug/L	
131-11-3	Dimethylphthalate	<del>                                     </del>		not detected	0.21 ug/L 0.18 ug/L	7000
208-96-8	Acenaphthylene	<del></del>	<del></del>	not detected	0.18 ug/L 0.19 ug/L	7000
606-20-2	2.6-Dinitrotoluene		<del></del>	not detected		
99-09-2	3-Nitroaniline			not detected	0.31 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	0.26 ug/L	400
J1 20-5	2, Dimuophonoi			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol		···	not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate	16.43	172779	1.95 ug/L	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.29	214070	1.45 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate			not detected	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	- 30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	. 10
207-08-9	Benzo[k]fluoranthene		,	not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Data File Name

Date Acquired

bn0646.d

Operator

Skelton

10/29/97 00:42

Sample Name

3088.06

Field ID

MW33

Pyridine N-nitroso-dimethylamine Aniline Phenol bis(2-Chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl alcohol			not detected not detected not detected not detected not detected not detected not detected	5.00 ug/L 0.94 ug/L 0.15 ug/L 0.47 ug/L 0.48 ug/L	20 4000
Aniline Phenol bis(2-Chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl alcohol			not detected not detected not detected	0.94 ug/L 0.15 ug/L 0.47 ug/L 0.48 ug/L	4000
Phenol bis(2-Chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl alcohol			not detected not detected	0.15 ug/L 0.47 ug/L 0.48 ug/L	
bis(2-Chloroethyl)ether 2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl alcohol			not detected	0.47 ug/L 0.48 ug/L	
2-Chlorophenol 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl alcohol				0.48 ug/L	10
1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzyl alcohol			not detected		10
1,4-Dichlorobenzene Benzyl alcohol				0.18 ug/L	40
Benzyl alcohol			not detected	0.15 ug/L	600
			not detected	0.23 ug/L	75
			not detected	0.18 ug/L	
1,2-Dichlorobenzene			not detected		600
2-Methylphenol			not detected		
bis(2-chloroisopropyl)ether			not detected		300
4-Methylphenol			not detected		
n-Nitroso-di-n-propylamine			not detected		20
Hexachloroethane			not detected		10
Nitrobenzene			not detected		10
Sophorone			not detected		100
2-Nitrophenol			not detected		
2,4-Dimethylphenol			not detected		100
ois(2-Chloroethoxy)methane			not detected		
2,4-Dichlorophenol			not detected		20
Benzoic Acid	1		not detected		
1,2,4-Trichlorobenzene			not detected		9
Vaphthalene			not detected		
-Chloroaniline			not detected		
Hexachlorobutadiene			not detected		1
-Chloro-3-methylphenol			not detected		
2-Methylnaphthalene			not detected		
Hexachlorocyclopentadiene			not detected		50
2,4,6-Trichlorophenol			not detected		20
2,4,5-Trichlorophenol			not detected		700
-Chloronaphthalene			not detected		
-Nitroaniline			not detected		
Dimethylphthalate			not detected		7000
Acenaphthylene			not detected		
,6-Dinitrotoluene		-	not detected		
-Nitroaniline			not detected		
cenaphthene		<del></del>	not detected		400
,4-Dinitrophenol					40
2 b 4 p E N L 2 2 b 2 B L N 4 H L 2 H N L 2 C 1 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C 2 C	ois(2-chloroisopropyl)ether  i-Methylphenol a-Nitroso-di-n-propylamine Hexachloroethane Nitrobenzene sophorone i-Nitrophenol a-Dimethylphenol dis(2-Chloroethoxy)methane a-Chlorophenol denzoic Acid a-2,4-Trichlorobenzene Japhthalene -Chloroaniline Hexachlorobutadiene -Chloro-3-methylphenol -Methylnaphthalene Hexachlorocyclopentadiene a-A,6-Trichlorophenol a-Chloronaphthalene Hexachlorocyclopentadiene a-Nitroaniline Dimethylphthalate Dimethylphthalate Leenaphthylene a-G-Dinitrotoluene -Nitroaniline	2-Methylphenol bis(2-chloroisopropyl)ether 1-Methylphenol bis(2-chloroisopropyl)ether 1-Methylphenol bis(a-n-propylamine) 1-Methylphenol bis(a-chloroethane) 1-Nitrophenol 1-Nitrophenol 1-A-Dimethylphenol 1-A-Dimethylphenol 1-A-Dichlorophenol 1-A-Dichlorophenol 1-A-Dichlorophenol 1-Chloroaniline 1-Chloroaniline 1-Chloroaniline 1-Methylnaphthalene 1-Chloro-3-methylphenol 1-Methylnaphthalene 1-A-5-Trichlorophenol 1-A-5-Trichlorophenol 1-Chloronaphthalene 1-Nitroaniline 1-Mitroaniline 1-Mitroaniline 1-Mitroaniline 1-Mitroaniline 1-Nitroaniline	2-Methylphenol 2-Methylphenol 3-Methylphenol 3-Nitroso-di-n-propylamine 4-Exachloroethane Nitrobenzene 5-Nitrophenol 3-Nitrophenol 3-Nitrophenol 3-L-Dimethylphenol 3-L-Dimethylphenol 3-L-Dichlorophenol 3-L-Dichlorophenol 3-Renzoic Acid 3-2,4-Trichlorobenzene 4-Pichloroaniline 4-Chloroaniline 4-Chloroaniline 4-Exachlorobutadiene 4-Chloro-3-methylphenol 4-Methylnaphthalene 4-S-Trichlorophenol 5-Chloroaphthalene 6-Nitroaniline 6-Initroaniline 7-Nitroaniline 8-Initroaniline 8-I	A-Methylphenol not detected obs(2-chloroisopropyl)ether not detected obs(2-chloroisopropyl)ether not detected obs(2-chloroisopropyl)ether not detected obs(2-chlorosopropyl)ether not detected obs(2-chloroethane not detected observed obser	Note   Note

132-64-9	Dibenzofuran			not detected	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate	16.43	427149	4.65 ug/L	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether		· ·	not detected	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01-8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.29	718494	4.67 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate	23.77	88747	1.17 ug/L	0.47 ug/L	100
56-55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218-01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

Data File Name

bn0647.d

Sample Name

3088.07

1

Operator

Skelton

Field ID

Field Dup

Date Acquired

10/29/97 01:24

CAS#	Name	R.T.	Response	Amount	MDL	GW Criteria
110-86-1	Pyridine	Ī	T I	not detected	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.94 ug/L	20
62-53-3	Aniline	1		not detected	0.15 ug/L	
108-95-2	Phenol			not detected	0.47 ug/L	4000
111-44-4	bis(2-Chloroethyl)ether			not detected	0.48 ug/L	10
95-57-8	2-Chlorophenol			not detected	0.18 ug/L	40
541-73-1	1,3-Dichlorobenzene			not detected	0.15 ug/L	600
106-46-7	1,4-Dichlorobenzene			not detected	0.23 ug/L	75
100-51-6	Benzyl alcohol		<del> </del>	not detected	0.18 ug/L	7.5
95-50-1	1,2-Dichlorobenzene	1		not detected	0.16 ug/L	600
	2-Methylphenol	<b></b>	-	not detected	0.14 ug/L	000
108-60-1	bis(2-chloroisopropyl)ether			not detected	0.61 ug/L	300
100 00 1	4-Methylphenol			not detected		300
621-64-7	n-Nitroso-di-n-propylamine	1		not detected	0.14 ug/L	
67-72-1	Hexachloroethane				0.36 ug/L	20
98-95-3	Nitrobenzene	<del> </del>		not detected	0.33 ug/L	10
78-59-1	Isophorone			not detected	0.46 ug/L	10
88-75-5	2-Nitrophenol	<del> </del>		not detected	0.35 ug/L	100
105-67-9	2,4-Dimethylphenol		, , , , , , , , , , , , , , , , , , , ,	not detected	0.23 ug/L	
		<del> </del>		not detected	0.27 ug/L	100
111-91-1 120-83-2	bis(2-Chloroethoxy)methane	-		not detected	0.46 ug/L	
	2,4-Dichlorophenol			not detected	0.12 ug/L	20
65-85-0	Benzoic Acid			not detected	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	0.25 ug/L	9
91-20-3	Naphthalene			not detected	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	0.38 ug/L	1
59-50-7	4-Chloro-3-methylphenol			not detected	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene	<u> </u>		not detected	1.50 ug/L	50
88-06-2	2,4,6-Trichlorophenol			not detected	0.42 ug/L	20
	2,4,5-Trichlorophenol			not detected	0.31 ug/L	700
91-58-7	2-Chloronaphthalene			not detected	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	0.18 ug/L	7000
208-96-8	Acenaphthylene			not detected	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	0.26 ug/L	
83-32-9	Acenaphthene			not detected	0.26 ug/L	400
51-28-5	2,4-Dinitrophenol			not detected	0.69 ug/L	40

132-64-9	Dibenzofuran	T		not detected	0.32 ug/L	<u> </u>
100-02-7	4-Nitrophenol			not detected	0.27 ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	0.36 ug/L	10
84-66-2	Diethylphthalate	16.43	388876	4.47 ug/L	0.82 ug/L	5000
86-73-7	Fluorene			not detected	0.29 ug/L	300
7005-72-3	4-Chlorophenyl-phenylether			not detected	0.31 ug/L	200
100-01-6	4-Nitroaniline			not detected	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	0.23 ug/L	20
103-33-3	Azobenzene			not detected	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	0.55 ug/L	
118-74-1	Hexachlorobenzene			not detected	0.82 ug/L	10
87-86-5	Pentachlorophenol			not detected	1.08 ug/L	1
85-01 <b>-</b> 8	Phenanthrene			not detected	0.18 ug/L	
120-12-7	Anthracene			not detected	0.19 ug/L	2000
84-74-2	Di-n-butylphthalate	20.30	722116	· 5.03 ug/L	0.23 ug/L	900
206-44-0	Fluoranthene			not detected	0.41 ug/L	300
92-87-5	Benzidine			not detected	1.45 ug/L	50
129-00-0	Pyrene			not detected	0.32 ug/L	200
85-68-7	Butylbenzylphthalate	23.77	110095	1.52 ug/L	0.47 ug/L	100
56 <b>-</b> 55-3	Benzo[a]anthracene			not detected	0.22 ug/L	10
91-94-1	3,3'-Dichlorobenzidine			not detected	0.46 ug/L	60
218 <b>-</b> 01-9	Chrysene			not detected	0.20 ug/L	20
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	0.51 ug/L	30
117-84-0	Di-n-octylphthalate			not detected	0.82 ug/L	100
205-99-2	Benzo[b]fluoranthene			not detected	0.37 ug/L	10
207-08-9	Benzo[k]fluoranthene			not detected	0.32 ug/L	2
50-32-8	Benzo[a]pyrene			not detected	0.31 ug/L	20
193 <b>-</b> 39-5	Indeno[1,2,3-cd]pyrene			not detected	0.79 ug/L	20
53-70-3	Dibenz[a,h]anthracene			not detected	0.28 ug/L	20
191-24-2	Benzo[g,h,i]perylene			not detected	0.40 ug/L	

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

	•				EXT. BL	ANK
Lab Name: FME	TL	Lab Co	de <u>13461</u>			
Project	Case No.: 3088	Loca	tion CW-2	_ \$D	G No.:	
Matrix: (soil/water)	WATER		Lab Sample	ID: E	Extraction Bl	ank
Sample wt/vol:	1000 (g/ml) ML		Lab File ID:	E	3N0636.D	
Level: (low/med)	LOW		Date Receiv	ed: 1	0/22/97	
% Moisture:	decanted: (Y/N)	N	Date Extract	ed: 1	10/27/97	<del></del> -
Concentrated Extra	ct Volume: 1000 (uL)		Date Analyz	ed: 1	0/28/97	
Injection Volume:	1.0 (uL)		Dilution Fact	or: 1	1.0	
GPC Cleanup: (Y/N	) <u>N</u> pH: <u>7</u>					in in the second
Number TICs found	: <u> </u>	CONCE	NTRATION (	JNITS JG/L	<b>S</b> :	,
CAS NUMBER	COMPOUND NAME		RT	EST	CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4	-methyl	5.04		32	JN

7.60

000111-46-6 Ethanol, 2,2'-oxybis-

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name: FMETI		Lab Code 13461	Field Blank
Project	Case No.: 3088	Location CW-2 S	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3088.02
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN0642.D
Level: (low/med)	LOW	Date Received:	10/22/97
% Moisture:	decanted: (Y/N)	N Date Extracted:	10/27/97
Concentrated Extract	Volume: 1000 (uL)	Date Analyzed:	10/28/97
Injection Volume: 1	.0 (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N)	N pH: 7		
Number TICe found		CONCENTRATION UNI	
Number TICs found:	3	(ug/L or ug/Kg) UG/	<u> </u>
CAS NUMBER	COMPOUND NAME	RT ES	ST. CONC. Q

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIE	LD	ID
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Lab Name:	FMETL			_ La	b Code 13461	MAAAA
Project		Ca	se No.: 3088		Location CW-2 S	DG No.:
Matrix: (soil/v	vater)	WATER	_		Lab Sample ID:	3088.03
Sample wt/vo	ol:	1000	(g/ml) ML		Lab File ID:	BN0643.D
Level: (low/n	ned)	LOW	_		Date Received:	10/22/97
% Moisture:		dec	anted: (Y/N)	N	Date Extracted:	10/27/97
Concentrated	Extract	Volume:	1000 (uL)		Date Analyzed:	10/28/97
Injection Volu	ıme: <u>1.(</u>	(uL) .			Dilution Factor:	1.0
GPC Cleanu	p: (Y/N)	<u>N</u>	pH: <u>7</u>			·

#### **CONCENTRATION UNITS:**

Number TICs found:	5	(ug/L or ug/Kg)	UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.05	20	J
2. 000111-77-3	Ethanol, 2-(2-methoxyethoxy)-	6.89	11	JN
3. 000111-46-6	Ethanol, 2,2'-oxybis-	7.62	30	JN
4. 000084-74-2	Dibutyl phthalate	19.37	30	JN
5. 000301-02-0	9-Octadecenamide, (Z)-	26.97	8	JN

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

17

34

JN

ĴΝ

Lab Name: FMETI		Lab Code 13461	MW31
Project	Case No.: 3088	Location CW-2 S	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3088.04
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN0644.D
Level: (low/med)	LOW	Date Received:	10/22/97
% Moisture:	decanted: (Y/N)	N Date Extracted:	10/27/97
Concentrated Extract	Volume: <u>1000</u> (uL)	Date Analyzed:	10/28/97
Injection Volume: 1	.0 (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N)	N pH: 7		
		CONCENTRATION UNIT	rs:
Number TICs found:	3	(ug/L or ug/Kg) UG/I	<del>-</del>
CAS NUMBER	COMPOUND NAME	RT ES	T. CONC. Q

5.05

7.60

19.36

unknown hydrocarbon

1,2-Benzenedicarboxylic acid, but

Ethanol, 2,2'-oxybis-

000111-46-6

3. 000084-64-0

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

40

JN

JN

Lab Name: FME	ETL	Lab Code 13461	MW32
Project	Case No.: 3088	Location CW-2 S	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3088.05
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN0645.D
Level: (low/med)	LOW	Date Received:	10/22/97
% Moisture:	decanted: (Y/N) _	N Date Extracted:	10/27/97
Concentrated Extr	act Volume: 1000 (uL)	Date Analyzed:	10/29/97
Injection Volume:	<u>1.0</u> (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/	N) N pH: 7		•
		CONCENTRATION UNI	rs:
Number TICs foun	d: <u>3</u>	(ug/L or ug/Kg) UG/	<u>L</u>
CAS NUMBER	COMPOUND NAME	RT ES	T. CONC. Q
1.	unknown hydrocarbon	5.05	29 J

7.61

19.36

000111-46-6

000084-74-2

Ethanol, 2,2'-oxybis-

Dibutyl phthalate

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name: FMETL		Lab Code 13461	MW33
Project	Case No.: 3088	Location CW-2 S	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3088.06
Sample wt/vol:	1000 (g/mi) ML	Lab File ID:	BN0646.D
Level: (low/med)	LOW	Date Received:	10/22/97
% Moisture:	decanted: (Y/N)	N Date Extracted:	10/27/97
Concentrated Extract	Volume: 1000 (uL)	 Date Analyzed:	10/29/97
Injection Volume: 1.	0 (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N)	<u>N</u> pH: <u>7</u>		
		CONCENTRATION UNI	ΓS:
Number TICs found:	4	(ug/L or ug/Kg) UG/I	_

			<u> </u>		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	5.06	32	JN	
2. 000111-77-3	Ethanol, 2-(2-methoxyethoxy)-	6.88	11	JN	
3. 000111-46-6	Ethanol, 2,2'-oxybis-	7.61	30	JN	
4. 000084-69-5	1,2-Benzenedicarboxylic acid, bis	19.38	29	JN	

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name: FMETL	Lab Code 13461	Field Dup
Project Case No.:	3088 Location CW-2 SD	G No.:
Matrix: (soil/water) WATER	Lab Sample ID: 3	088.07
Sample wt/vol: 1000 (g/ml)	ML Lab File ID:	3N0647.D
Level: (low/med) LOW	Date Received: 1	0/22/97
% Moisture: decanted: (	Y/N) N Date Extracted: 1	0/27/97
Concentrated Extract Volume: 1000	(uL) Date Analyzed: 1	0/29/97
Injection Volume: 1.0 (uL)	Dilution Factor: 1	.0
GPC Cleanup: (Y/N) N pH: 7	·	
Number TICs found: 4	CONCENTRATION UNITS	<b>3</b> :

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown hydrocarbon	5.05	28	J
2. 000111-77-3	Ethanol, 2-(2-methoxyethoxy)-	6.88	11	JN
3. 000111-46-6	Ethanol, 2,2'-oxybis-	7.65	49	JN
4. 000084-64-0	1,2-Benzenedicarboxylic acid, but	19.37	28	JN

Client:

U.S. Army

Lab. ID #:

Extraction Blank

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

10/23/97

Ft. Monmouth, NJ 07703

Analysis Date:

12/2/97

Analysis:

EPA Method 608

Matrix:

Location:

Aqueous

Analyst:

D. Wright

Field ID:

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep.	Funnel				
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1	=	0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	. 0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID #:

3088.02

DPW, SELFM-PW-EV

Date Rec'd:

10/22/97

Bldg. 173

**Extraction Date:** 

10/23/97

Ft. Monmouth, NJ 07703

Analysis Date:

12/2/97

Analysis:

EPA Method 608

Location:

CW-2

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

Field Blank

Ext. Meth:

Sep. Funnel

Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Ext. Meth. Sep. Full					
Deta-BHC	Pesticide/PCB		IB .	lfi	MDL (ug/L)	Result (ug/L)
Samma-BHC	alpha-BHC	1		0.02	0.0023	ND
delfa-BHC         1         NLE         0.0029         ND           Heptachlor         1         0.40         0.0027         ND           Aldrin         1         0.04         0.0028         ND           Heptachlor Epoxide         1         0.20         0.0024         ND           Endosulfan I         1         0.40         0.0024         ND           4,4'-DDE         1         0.10         0.0034         ND           Dieldrin         1         0.03         0.0019         ND           Endrin         1         2.00         0.0030         ND           Endrin Ketone         1         NLE         0.0100         ND           Endrin Ketone         1         0.40         0.0027         ND           4,4'-DDD         1         0.10         0.0066         ND           4,4'-DDT         1         0.10         0.0015         ND           Endosulfan-Sulfate         1 <th>beta-BHC</th> <th>1</th> <th></th> <th>0.20</th> <th>0.0026</th> <th>ND</th>	beta-BHC	1		0.20	0.0026	ND
Heptachlor	gamma-BHC	1		0.20	0.0026	ND
Aldrin         1         0.04         0.0028         ND           Heptachlor Epoxide         1         0.20         0.0024         ND           Endosulfan I         1         0.40         0.0024         ND           4,4'-DDE         1         0.10         0.0034         ND           Dieldrin         1         0.03         0.0019         ND           Endrin         1         2.00         0.0030         ND           Endrin Ketone         1         NLE         0.0100         ND           Endrin Ketone         1         NLE         0.0100         ND           Endosulfan II         1         0.40         0.0027         ND           Endosulfan II         1         0.10         0.0066         ND           4,4'-DDT         1         0.10         0.0015         ND           Endosulfan-Sulfate         1         0.10         0.0015         ND           Methoxychlor         1         NLE         0.0100         ND           Methoxychlor         1         NLE         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane	delta-BHC	1		NLE	0.0029	ND .
Heptachlor Epoxide	Heptachlor	1		0.40	0.0027	ND
Endosulfan I         1         0.40         0.0024         ND           4,4'-DDE         1         0.10         0.0034         ND           Dieldrin         1         0.03         0.0019         ND           Endrin         1         2.00         0.0030         ND           Endrin Ketone         1         NLE         0.0100         ND           Endosulfan II         1         0.40         0.0027         ND           4,4'-DDD         1         0.10         0.0066         ND           4,4'-DDT         1         0.10         0.0015         ND           Endosulfan-Sulfate         1         0.40         0.0015         ND           Methoxychlor         1         NLE         0.0100         ND           Methoxychlor         1         NLE         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1232	Aldrin	1		0.04	0.0028	ND
4,4'-DDE         1         0.10         0.0034         ND           Dieldrin         1         0.03         0.0019         ND           Endrin         1         2.00         0.0030         ND           Endrin Ketone         1         NLE         0.0100         ND           Endosulfan II         1         0.40         0.0027         ND           4,4'-DDD         1         0.10         0.0066         ND           4,4'-DDT         1         0.10         0.0015         ND           Endosulfan-Sulfate         1         0.40         0.0010         ND           Methoxychlor         1         NLE         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248	Heptachlor Epoxide	1		0.20	0.0024	ND
Dieldrin         1         0.03         0.0019         ND           Endrin         1         2.00         0.0300         ND           Endrin Ketone         1         NLE         0.0100         ND           Endosulfan II         1         0.40         0.0027         ND           4,4'-DDD         1         0.10         0.0066         ND           4,4'-DDT         1         0.10         0.0015         ND           Endosulfan-Sulfate         1         0.40         0.0010         ND           Methoxychlor         1         NLE         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254	Endosulfan I	1		0.40	0.0024	ND
Endrin 1 2.00 0.0030 ND  Endrin Ketone 1 NLE 0.0100 ND  Endosulfan II 1 0.40 0.0027 ND  4,4'-DDD 1 0.10 0.0066 ND  4,4'-DDT 1 0.10 0.0015 ND  Endosulfan-Sulfate 1 0.40 0.0010 ND  Methoxychlor 1 NLE 0.0100 ND  Alpha-chlordane 1 0.50 0.0140 ND  Gamma-chlordane 1 0.50 0.0140 ND  Toxaphene 1 3.00 0.0182 ND  Arochlor 1016 1 0.50 0.0640 ND  Arochlor 1221 1 0.50 0.0500 ND  Arochlor 1232 1 0.50 0.0500 ND  Arochlor 1242 1 0.50 0.0280 ND  Arochlor 1248 1 0.50 0.0500 ND  Arochlor 1254 1 0.50 0.0500 ND	4,4'-DDE	1		0.10	0.0034	ND
Endrin Ketone 1 NLE 0.0100 ND  Endosulfan II 1 0.40 0.0027 ND  4,4'-DDD 1 0.10 0.0066 ND  4,4'-DDT 1 0.10 0.0015 ND  Endosulfan-Sulfate 1 0.40 0.0010 ND  Methoxychlor 1 NLE 0.0100 ND  Alpha-chlordane 1 0.50 0.0140 ND  Gamma-chlordane 1 0.50 0.0140 ND  Toxaphene 1 3.00 0.0182 ND  Arochlor 1016 1 0.50 0.0640 ND  Arochlor 1221 1 0.50 0.0500 ND  Arochlor 1232 1 0.50 0.0500 ND  Arochlor 1242 1 0.50 0.0500 ND  Arochlor 1248 1 0.50 0.0500 ND  Arochlor 1248 1 0.50 0.0500 ND  Arochlor 1254 1 0.50 0.0500 ND	Dieldrin	1		0.03	0.0019	ND
Endosulfan II         1         0.40         0.0027         ND           4,4'-DDD         1         0.10         0.0066         ND           4,4'-DDT         1         0.10         0.0015         ND           Endosulfan-Sulfate         1         0.40         0.0010         ND           Methoxychlor         1         NLE         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Endrin	1		2.00	0.0030	ND
4,4'-DDD       1       0.10       0.0066       ND         4,4'-DDT       1       0.10       0.0015       ND         Endosulfan-Sulfate       1       0.40       0.0010       ND         Methoxychlor       1       NLE       0.0100       ND         Alpha-chlordane       1       0.50       0.0140       ND         Gamma-chlordane       1       0.50       0.0140       ND         Toxaphene       1       3.00       0.0182       ND         Arochlor 1016       1       0.50       0.0640       ND         Arochlor 1221       1       0.50       0.0500       ND         Arochlor 1232       1       0.50       0.0500       ND         Arochlor 1242       1       0.50       0.0500       ND         Arochlor 1248       1       0.50       0.0500       ND         Arochlor 1254       1       0.50       0.0500       ND	Endrin Ketone	1		NLE	0.0100	ND
4,4'-DDT         1         0.10         0.0015         ND           Endosulfan-Sulfate         1         0.40         0.0010         ND           Methoxychlor         1         NLE         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0500         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Endosulfan II	1		0.40	0.0027	ND
Endosulfan-Sulfate         1         0.40         0.0010         ND           Methoxychlor         1         NLE         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	4,4'-DDD	1		0.10	0.0066	ND
Methoxychlor         1         NLE         0.0100         ND           Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	4,4'-DDT	1		0.10	0.0015	ND
Alpha-chlordane         1         0.50         0.0140         ND           Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Endosulfan-Sulfate	1		0.40	0.0010	ND
Gamma-chlordane         1         0.50         0.0140         ND           Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Methoxychlor	1		NLE	0.0100	ND
Toxaphene         1         3.00         0.0182         ND           Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Alpha-chlordane	1		0.50	0.0140	ND
Arochlor 1016         1         0.50         0.0640         ND           Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Gamma-chlordane	1		0.50	0.0140	ND
Arochlor 1221         1         0.50         0.0500         ND           Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Toxaphene	1		3.00	0.0182	ND
Arochlor 1232         1         0.50         0.0500         ND           Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1242         1         0.50         0.0280         ND           Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1248         1         0.50         0.0500         ND           Arochlor 1254         1         0.50         0.0500         ND	Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1254 1 0.50 0.0500 ND	Arochior 1242	1		0.50	0.0280	ND
- 0.0000 100	Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1260 1 0.50 0.0680 ND	Arochlor 1254	1		0.50	0.0500	ND
	Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID #:

3088.03

DPW, SELFM-PW-EV

Ft. Monmouth, NJ 07703

Date Rec'd:

10/22/97

Bldg. 173

10/23/97

**Extraction Date:** Analysis Date:

12/2/97

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

CW-2

Analyst:

D. Wright

Field ID:

MW-30

Ext. Meth:

Sep. Funnel

Ext. Meth:	sep. runnei				
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND
ATTS - NT-4 TS-441		<u> </u>			

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID #:

3088.04

DPW, SELFM-PW-EV

Date Rec'd:

10/22/97

Bldg. 173

**Extraction Date:** 

10/23/97

Ft. Monmouth, NJ 07703

Analysis Date:

12/2/97

Analysis:

EPA Method 608

Location:

CW-2

Matrix:

Aqueous

Analyst: Ext. Meth: D. Wright Sep. Funnel Field ID: MW-31

Pesticide/PCB		D 1
-1-L. DITC	Т	

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1	<u> </u>	0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	·ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID # :

3088.05

DPW, SELFM-PW-EV

Date Rec'd:

10/22/97

Bldg. 173

**Extraction Date:** 

10/23/97

Ft. Monmouth, NJ 07703

Analysis Date:

12/2/97

Analysis:

EPA Method 608

Location:

Matrix:

CW-2

Aqueous

Analyst:

D. Wright

Field ID:

MW-32

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. Fun	TCI.				
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND .
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	.1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID #:

3088.06

DPW, SELFM-PW-EV

Date Rec'd:

10/22/97

Bldg. 173

**Extraction Date:** 

10/23/97

Ft. Monmouth, NJ 07703

**Analysis Date:** 

12/2/97

Analysis:

EPA Method 608

Location:

Matrix:

CW-2

Aqueous

Field ID:

MW-33

Analyst:

D. Wright

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1 .		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID #:

3088.07

DPW, SELFM-PW-EV

Date Rec'd:

10/22/97

Bldg. 173

**Extraction Date:** 

10/23/97

Ft. Monmouth, NJ 07703

**Analysis Date:** 

12/2/97

Analysis:

EPA Method 608

Location:

CW-2

Matrix:

Aqueous

Analyst: Ext. Meth: D. Wright Sep. Funnel

Field ID:

Field DUP

Ext. Meth:	Sep. Funnel				
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	. 1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND .
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND
ND = Not Detected		Column Drimo		D4= 5 20=-/20	3TD/25

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: Method Blank

Sample Received: NA

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: NA

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	ND	200	10.0
Antimony	01/29/98	ND	20	2.0
Arsenic	01/29/98	ND	8	2.0
Barium	01/29/98	ND	2000	0.5
Beryllium	01/29/98	ND	20	0.5
Cadmium	01/29/98	ND	4	0.5
Calcium	01/29/98	ND	NLE	10.0
Chromium	01/29/98	ND	100	0.5
Cobalt	01/29/98	ND	NLE	0.5
Copper	01/29/98	ND	1000	3.0
Iron	01/29/98	ND	300	5.0
Lead	01/29/98	ND	10	2.0
Magnesium	01/29/98	ND	NLE	10.0
Manganese	01/29/98	ND	50	0.5
Mercury	11/10/97	ND	2	0.2
Nickel	01/29/98	ND	100	0.5
Potassium	01/29/98	ND	NLE	10.0
Selenium	01/29/98	ND	50	3.0
Silver	01/29/98	ND	20	3.0
Sodium	01/29/98	ND	50000	10.0
Thallium	01/29/98	ND	10	3.0
Vanadium	01/29/98	ND	NLE	1.0
Zinc	01/29/98	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established, NA = Not Applicable

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3088.02

Sample Received: 10/22/97

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	163.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	4.2	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	1570.0	NLE	20.0
Chromium	01/29/98	1.5	100	1.0
Cobalt	01/29/98	1.6	NLE	1.0
Copper	01/29/98	15.0	1000	6.0
Iron	01/29/98	173.0	300	10.0
Lead	01/29/98	5.0	10	4.0
Magnesium	01/29/98	250.0	NLE	20.0
Manganese	01/29/98	2.9	50	1.0
Mercury	11/10/97	ND	2	0.2
Nickel	01/29/98	2.9	100	1.0
Potassium	01/29/98	ND	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	790.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	82.0	5000	2.0

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3088.03

Sample Received: 10/22/97

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-30

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	175.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	5.0	8	4.0
Barium	01/29/98	112.5	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND ·	4	1.0
Calcium	01/29/98	68240.0	NLE	20.0
Chromium	01/29/98	2.7	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	17.0	1000	6.0
Iron	01/29/98	34760.0	300	10.0
Lead	01/29/98	5.0	10	4.0
Magnesium	01/29/98	6640.0	NLE	20.0
Manganese	01/29/98	171.3	50	1.0
Mercury	11/10/97	0.2	2	0.2
Nickel	01/29/98	1.5	100	1.0
Potassium	01/29/98	12240.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	19320.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	72.0	5000	2.0

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3088.04

Sample Received: 10/22/97

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-31

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	93.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	197.3	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	45780.0	NLE	20.0
Chromium	01/29/98	11.2	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	11.0	1000	6.0
Iron	01/29/98	52340.0	300	10.0
Lead	01/29/98	6.0	10	4.0
Magnesium	01/29/98	5430.0	NLE	20.0
Manganese	01/29/98	243.5	50	1.0
Mercury	11/10/97	0.6	2	0.2
Nickel	01/29/98	1.4	100	1.0
Potassium	01/29/98	11040.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	11920.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	476.0	5000	2.0

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3088.05

Sample Received: 10/22/97

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-32

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
<u> </u>	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	297.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	166.9	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	67870.0	NLE	20.0
Chromium	01/29/98	11.3	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	17.0	1000	6.0
Iron	01/29/98	51100.0	300	10.0
Lead	01/29/98	7.0	10	4.0
Magnesium	01/29/98	7570.0	NLE	20.0
Manganese	01/29/98	260.7	50	1.0
Mercury	11/10/97	ND	2	0.2
Nickel	01/29/98	2.5	100	1.0
Potassium	01/29/98	13540.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	17300.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	461.0	5000	2.0

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3088.06

Sample Received: 10/22/97

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	94.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	. 4.0
Barium	01/29/98	126.5	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	39300.0	NLE	20.0
Chromium	01/29/98	1.1	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	12.0	1000	6.0
Iron	01/29/98	26770.0	300	10.0
Lead	01/29/98	4.0	10	4.0
Magnesium	01/29/98	5370.0	NLE	20.0
Manganese	01/29/98	151.8	50	1.0
Mercury	11/10/97	0.2	2	0.2
Nickel	01/29/98	1.4	100	1.0
Potassium	01/29/98	7680.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	16360.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	49.0	5000	2.0

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3088.07

Sample Received: 10/22/97

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Dup.

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	30.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	119.0	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	37940.0	NLE	20.0
Chromium	01/29/98	2.0	100	1.0
Cobalt	01/29/98	1.2	NLE	1.0
Copper	01/29/98	8.0	1000	6.0
Iron	01/29/98	2576.0	300	10.0
Lead	01/29/98	384.0	10	4.0
Magnesium	01/29/98	5100.0	NLE	20.0
Manganese	01/29/98	147.0	50	1.0
Mercury	11/10/97	0.3	2	0.2
Nickel	01/29/98	ND	100	1.0
Potassium	01/29/98	6820.0	NLE	20.0
Selenium	01/29/98	ND	50 .	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	17220.0	50000	20.0
Thallium	01/29/98	6.0	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	112.0	5000	2.0

# FORT MONMOUTH ENVIRONMENTAL

# TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



### ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

#### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3271.03	MW-30	29-32594	01/08/98
3271.04	MW-31	29-32595	01/08/98
3271.05	MW-32	29-32596	01/08/98
3271.06	MW-33	29-32597	01/08/98

NJDEP Laboratory Certification # 13461

Report Date: 18 February,1998

Daniel Wright

**Laboratory Director** 

### **METHODOLOGY SUMMARY**

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
A1 ,	
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

# Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (908)532-4359 Fax (908)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

**Chain of Custody Record** 

Customer: I. Fallon	\ 	Project No:						Ana	lysis I	Parame	eters			Comments:
Phone #: X J G J J J	-	Location:	BldyDro	0										
(X)DERA ( )OMA ( )Other		X	ch-d			TIL	(a.)	TCL	Tel.					
Samplers Name / Company :	RAY POGU.	5T / Tu	'S	Sample	#	Tel VOA Ts	nela le	BNA	PST					
Lab Sample I.D. Sa	mple Location	Date	Time	Туре	bottles	5			rpers					Remarks / Preservation Method
32711 61 TA	ip Blank	1/8/48	0800	AB	ょ	Х			م					All Snaples Kept L 400 Von - Hel LapH Metals HNO3 EdpH
01 Fic	12 Blank		1000		5	X	×	×	X					16x-Hel ZdpH
03 MW30	12 6/2016 0 #2932594		1/30											METALS HNOZ EdpH
	1 # 29 32 595		1120											
05MW30	L # 1932596		1505											
66 MW3	3 42932 597		1420											·
57 Field	Dup	V		4	$\downarrow$	1	J	↓ ↓	J					
			· · · · · · · · · · · · · · · · · · ·			<u> </u>								
												<u> </u>		
		·						<u> </u>						
								<u></u>	<u> </u>					
Relinquished by (signature):	Date/Time: 1/8/94/1500	Received by	(signature): UUU	k.	Relin	quished	l by (sig	gnature	):	Date/	Time:	Recei	ved by	(signature):
Relinquished by (signature):	Date/Time:	Received by			Relin	quished	l by (sig	gnature	):	Date/	Time:	Recei	ved by	(signature):
Report Type: (_)Full, (_)Reduced,	, (_)Standard, (_)Scre	en / non-certifi	ied			Rema	rks:							
Turnaround time: (_)Standard 4 w	ks, (_)Rush Day:	s, (_)ASAP V	erbal H	rs.										

# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATASHEET

BLDG: CW-2

MW#_30			
NJDEP ID# 2932594			
NJDEP CERT# <u>13461</u>	•		-
SAMPLING CONTRATOR TVS		•	
SAMPLER RAY POGWIST	•		
DATE: 01/08/98	WEATHER:	OVERCAST 50'S	
ELEVATION OF CASING SURVI	EY MARK		
DTW: 5.20			•
DEPTH OF WELL: 17.90			
HEIGHT OF WATER 12.7	_		•
$12.7 \times 0.65 \times 3 = 24.76$			
GAL OF H2O TO BE EVACUATE	· · · - <del>-</del>	AL	_
PURGE METHOD: (FLOW OF <	0.5 TO >5.0 G	PM) <u>PERISTALI</u>	<u> </u>
PURGERATE 0.2 GPM			
Hnu READING COULD NOT US	E-WEATER		
DIDCE CTART TREE. 0.25			
PURGE START TIME: 9:25	10.1	DEC 00	•
•	13.1		100/
DISSOLVED O2 4.7 PPM	SPECIFIC	CONDUCTIVITY	120 us/cm
PURGE END TIME: 11:29			
	13.2	DEG °C	
DISSOLVED 02 4.2 PPM			130 us/cm
	DI DOM IO	CONDUCTIVITI	150 43/0111
DEPTH TO H2O AFTER PURGIN	G AND BEFO	ORE SAMPLING 7	.20 FT
sampling method : dedicated (law N			.20 11
TOTAL VOLUME PURGED: 24.		1992) terion & curior	•
	0.12		
pH: 7.30 TEMP	13.2	DEG °C	
DISSOLVED 02 4.2 PPM		CONDUCTIVITY	130 us/cm
COMMENTS:	·		

# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATASHEET

BLDG: CW-2	
MW# <u>31</u>	
NJDEP ID# 2932595	
NJDEP CERT# <u>13461</u>	
SAMPLING CONTRATOR TVS	
SAMPLER RAY POGWIST _	
DATE: 01/08/98 WEATHER: OVERCAST 50'S	
ELEVATION OF CASING SURVEY MARK	
DTW: 6.30	•
DEPTH OF WELL: 16.80	
HEIGHT OF WATER 10.5	
$10.5 \times 0.65 \times 3 = 20.475$	
GAL OF H2O TO BE EVACUATED 20.6 GAL	
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC	
PURGE RATE 0.2 GPM	
Hnu READING COULD NOT USE-WEATER	
PURGE START TIME: 9:35	
pH: 8.64 TEMP 13.9 DEG °C	
DIGGOT IND OR ALL DRIVE	us/cm
PURGE END TIME: 11:18	
pH: 6.40 TEMP 15.3 DEG °C	
DISSOLVED 02 1.0 PPM SPECIFIC CONDUCTIVITY 170	us/cm
DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 7.10 F	er.
sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer	1
TOTAL VOLUME PURGED: 20.6 GAL	
pH: 6.35 TEMP 15.2 DEG °C	
DISSOLVED O2 0.9 PPM SPECIFIC CONDUCTIVITY 170	us/cm
COLO CONTRO	
COMMENTS:	

# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATASHEET

BLDG: CW-2			
MW# <u>32</u>			
NJDEP ID# 2932596			
NJDEP CERT# <u>13461</u>			
SAMPLING CONTRATOR TVS			
SAMPLER <u>RAY POGWIST</u> _			
DATE: 01/08/98	WEATHER:	OVERCAST 50'S	
ELEVATION OF CASING SURVE	EY MARK		
DTW: 4.5			
DEPTH OF WELL: 16.80			
HEIGHT OF WATER 12.30			
12.30 $\times 0.65 \times 3 = 23.98$			
GAL OF H2O TO BE EVACUATE			
PURGE METHOD: (FLOW OF <0	.5 TO >5.0 G	PPM) <u>PERISTALIC</u>	·
PURGE RATE 0.2 GPM			
Hnu READING COULD NOT USE	S-WEATER		
PURGE START TIME: 13:00			
pH: 6.46 TEMP	10.7	DEG °C	
DISSOLVED O2 5.2 PPM			50 us/cm
PURGE END TIME: 15:00			
pH: 7.11 TEMP			
DISSOLVED O2 4.8 PPM	SPECIFIC	CONDUCTIVITY	160 us/cm
DEPTH TO H2O AFTER PURGING sampling method: dedicated (law N. TOTAL VOLUME PURGED: 24	JDEP FSPM		) FT
pH: 7.15 TEMP	11.6	DEG °C	
DISSOLVED O2 4.8 PPM			160 us/cm
COMMENTS:			
	<del> </del>		

# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATASHEET

BLDG: CW-2		
MW# <u>33</u>		
NJDEP ID# 2932597		
NJDEP CERT# <u>13461</u>	·	
SAMPLING CONTRATOR TVS		
SAMPLER <u>RAY POGWIST</u> _		
DATE: 01/08/98	WEATHER:	OVERCAST 50'S
ELEVATION OF CASING SURVE	Y MARK	
DTW: 9.00		
DEPTH OF WELL: 16.00	•	
HEIGHT OF WATER 7.0		
$7.0 \times 0.65 \times 3 = 13.65$		
GAL OF H2O TO BE EVACUATE		
PURGE METHOD: (FLOW OF <0	.5 TO >5.0 G	PERISTALIC
PURGE RATE 0.2 GPM		
Hnu READING COULD NOT USE	5-WEATEK	
PURGE START TIME: 13:15		
pH: 6.76 TEMP	16.3	DEG °C
DISSOLVED O2 2.1 PPM	SPECIFIC	CONDUCTIVITY 200 us/cm
PURGE END TIME: 14:19		
pH: 5.58 TEMP	16.5	DEG °C
DISSOLVED O2 1.0 PPM		
	or boar to	CONDUCTIVITY 200 us/on
DEPTH TO H2O AFTER PURGING	G AND BEFO	ORE SAMPLING 13.8 FT
sampling method: dedicated (law N.	JDEP FSPM	1992) teflon ® bailer
TOTAL VOLUME PURGED: 13.8	GAL	,
pH: 5.59 TEMP	16.5	DEG °C
DISSOLVED O2 0.9 PPM		
213502 VLD 02 0.9 11W	bi Eciric	CONDUCTIVITI 200 us/cm
COMMENTS:		· ·

### US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY **NJDEPE # 13461**

#### **Definition of Qualifiers**

MDL: Method Detection Limit

: Compound identified below detection limit J

: Compound in both sample and blank : Results from dilution of sample В

D

: Compound searched for but not detected U

Data File Name v02752.d Operator

Date Acquired

Skelton

14 Jan 1998 12:08

Sample Name

VBLK14 VBLK14

Sample Multiplier

Field ID

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	1
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	<del> </del>
74-87-3	Chloromethane	1.		not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane	<del>                                     </del>		not detected	<del>                                     </del>		
75-35-4	1,1-Dichloroethene	<del> </del>		not detected	nle 2	1.31 ug/L	<u> </u>
67-64-1	Acetone	<del>                                     </del>		not detected	1	0.74 ug/L	
75-15-0	Carbon Disulfide	+		·	700	1.57 ug/L	
75-09-2	Methylene Chloride	<del>                                     </del>		not detected	nle	0.54 ug/L	· · · · · · · · · · · · · · · · · · ·
156-60-5	trans-1,2-Dichloroethene	<del> </del>		not detected	2	1.66 ug/L	
75-35-3	1,1-Dichloroethane	<del>                                     </del>		not detected	100	0.50 ug/L	
108-05-4		+		not detected	70	0.83 ug/L	
	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone	<u> </u>		not detected	300	2.06 ug/L	
(5.66.0	cis-1,2-Dichloroethene	<del> </del>		not detected	10	0.65 ug/L	
67-66-3	Chloroform	<del> </del>		not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride		_	not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene	<u> </u>		not detected	1	0.94 ug/L	
78-87 <b>-</b> 5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	•
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	-
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Нехаполе		i	not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene	T		not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes		<del></del>	not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene	† <u>†</u>		not detected	nle	2.33 ug/L 1.92 ug/L	
100-42-5	Styrene	†		not detected	100		
75-25-2	Bromoform		<del></del>	not detected		1.57 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	<del>                                     </del>			4	1.68 ug/L	<del></del>
541-73-1	1,3-Dichlorobenzene	1		not detected	2	1.71 ug/L	
106-46-7	1,4-Dichlorobenzene	1		not detected	600	2.51 ug/L	
95-50-1	1,2-Dichlorobenzene	<del>  </del>		not detected	. 74	3.08 ug/L	
73-30-1	[1,2-DichlorobenZene	<u> </u>	Qualifiers	not detected	600	2.75 ug/L	

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Name v02753.d Operator

Date Acquired

Skelton

14 Jan 1998 13:26

Sample Name

Field ID

Sample Multiplier

Trip Blank 1

3271.01

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane	1		not detected	nle	1.31 ug/L	i
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone		<del></del>	not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide	1		not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride	· · · · · · · · · · · · · · · · · · ·		not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene	<del>                                     </del>		not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane	1		not detected	70		
108-05-4	Vinyl Acetate	1		not detected	nle	0.83 ug/L	
78-93-3	2-Butanone	1		not detected	300	2.07 ug/L	
70 75 5	cis-1,2-Dichloroethene	-				2.06 ug/L	
67-66-3	Chloroform	18.26	9417	not detected 1.34 ug/L	10	0.65 ug/L	
75-55-6	1,1,1-Trichloroethane	10.20	. 3417	not detected	6	0.43 ug/L	
56-23-5	Carbon Tetrachloride	<del> </del>		not detected	30	0.81 ug/L	
71-43-2	Benzene	+			2	1.20 ug/L	
107-06-2	1,2-Dichloroethane	<del> </del>		not detected not detected	1	0.51 ug/L	
79-01-6	Trichloroethene	<del> </del>			2	1.27 ug/L	:
78-87-5	1,2-Dichloropropane	<del> </del>		not detected	1	0.94 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.78 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	1	0.77 ug/L	
10061-01-5	cis-1,3-Dichloropropene	<del> </del>		not detected	nle	1.05 ug/L	
108-10-1	4-Methyl-2-Pentanone	<del> </del>		not detected	nle	0.60 ug/L	
108-88-3	Toluene			not detected	400	1.33 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1000	0.73 ug/L	
79-00-5	1,1,2-Trichloroethane	<del>  </del>		not detected	nle	1.43 ug/L	
127-18-4	Tetrachloroethene	<del> </del>		not detected	3	1.49 ug/L	
591-78-6	2-Hexanone	,		not detected	1	0.92 ug/L	
126-48-1	Dibromochloromethane	<del></del>		not detected	nle	1.12 ug/L	
108-90-7	Chlorobenzene	<del>                                     </del>		not detected	10	1.36 ug/L	
100-41-4	Ethylbenzene	<del> </del>		not detected	4	0.66 ug/L	
1330-20-7	m+p-Xylenes	<del>                                     </del>		not detected	700	1.14 ug/L	
1330-20-7	o-Xylene	<del>  </del>		not detected	nle .	2.53 ug/L	
100-42-5	Styrene	<del>  </del>		not detected	nle	1.92 ug/L	
75-25-2	Bromoform	<del>                                     </del>		not detected	100	1.57 ug/L	· · · · · · · · · · · · · · · · · · ·
79-34-5	1,1,2,2-Tetrachloroethane	<del> </del>		not detected	4	1.68 ug/L	
541-73-1		<del>                                     </del>		not detected	2	1.71 ug/L	
106-46-7	1,3-Dichlorobenzene	<del>  </del>		not detected	600	2.51 ug/L	
95-50-1	1,4-Dichlorobenzene	<del>                                     </del>		not detected	74	3.08 ug/L	
37-30-1	1,2-Dichlorobenzene	<u> </u>	<u>Oualifiers</u>	not detected	600	2.75 ug/L	

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Name v02754.d Operator

Date Acquired

1330-20-7

1330-20-7

100-42-5

75-25-2

79-34-5

541-73-1

106-46-7

95-50-1

m+p-Xylenes

o-Xylene

Bromoform

1,1,2,2-Tetrachloroethane

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,2-Dichlorobenzene

Styrene

Skelton

14 Jan 1998 14:18

Sample Name

3271.02

1

Field ID

Field Blank

CW/

2.53 ug/L

1.92 ug/L

1.57 ug/L

1.68 ug/L

1.71 ug/L

2.51 ug/L

3.08 ug/L

2.75 ug/L

Sample Multiplier

C 1 C#	C		_		GW		
CAS#	Compound Name	R.T.	Response	Result	Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol	ļ <b></b>		not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether	_		not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene	<b>—</b>		not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide		<u> </u>	not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70		<u> </u>
108-05-4	Vinyl Acetate	<del></del>		not detected	nle	0.83 ug/L	
78-93-3	2-Butanone	+		not detected		2.07 ug/L	
70 70 7	cis-1,2-Dichloroethene	<del>                                     </del>	· <u> </u>		300	2.06 ug/L	
67-66-3	Chloroform	18.27	8334	not detected	10	0.65 ug/L	
75-55-6	1,1,1-Trichloroethane	10.27	2224	1.15 ug/L	6	0.43 ug/L	
56-23-5	Carbon Tetrachloride	<del> </del>		not detected	_30	0.81 ug/L	
71-43-2	Benzene	-		not detected	2	1.20 ug/L	<u> </u>
107-06-2	1,2-Dichloroethane			not detected	1	0.51 ug/L	· · · · · · · · · · · · · · · · · · ·
79-01-6	Trichloroethene	<del> </del>		not detected	2	1.27 ug/L	
78-87-5	1,2-Dichloropropane		· · ·	not detected	1	0.94 ug/L	
75-27-4		-		not detected	1	0.78 ug/L	·
110-75-8	Bromodichloromethane	<del> </del>		not detected	1	0.77 ug/L	
	2-Chloroethyl vinyl ether	<del> </del>		not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene	-		not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene	<b></b>		not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene	ļ <u>.</u>		not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane	4		not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene	<b></b>		not detected	1	0.92 ug/L	
591-78-6	2-Hexanone	ļ <u>.</u>		not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1220 20 7	mark = 37 - 1						

#### **Qualifiers**

B = Compound found in related blank

not detected

nle

nle

100

4

600

74

600

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Name v02755.d Operator

Date Acquired

Skelton

14 Jan 1998 15:07

Sample Name

3271.03

Field ID

MW30

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
<u>-</u>	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride		!	not detected	5	2.61 ug/L	<b>1</b>
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene	1		not detected	2	0.74 ug/L	
67-64-1	Acetone	1		not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene	<del>                                     </del>		not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane	1		not detected	70	0.83 ug/L	<del></del>
108-05-4	Vinyl Acetate	1	-	not detected	nle	2.07 ug/L	
78-93-3	2-Butanone	<del> </del>		not detected	300		
	cis-1,2-Dichloroethene	<b>—</b>		not detected	10	2.06 ug/L	
67-66-3	Chloroform	ļ		not detected	6	0.65 ug/L	<u></u>
75-55-6	1,1,1-Trichloroethane	1		not detected	30	0.43 ug/L	
56-23-5	Carbon Tetrachloride	<del>                                     </del>		not detected	2	0.81 ug/L	
71-43-2	Benzene			not detected	1	1.20 ug/L	
107-06-2	1,2-Dichloroethane			not detected	1 2	0.51 ug/L	
79-01-6	Trichloroethene		-	not detected	<del></del>	1.27 ug/L	
78-87-5	1,2-Dichloropropane	<del>                                     </del>			1	0.94 ug/L	
75-27-4	Bromodichloromethane	<del> </del>		not detected	1	0.78 ug/L	
110-75-8	2-Chloroethyl vinyl ether	<u> </u>		not detected	1	0.77 ug/L	
10061-01-5	cis-1,3-Dichloropropene	<del> </del> -		not detected	nle	1.05 ug/L	
108-10-1	4-Methyl-2-Pentanone	<u> </u>		not detected	nle	0.60 ug/L	
108-88-3	Toluene	-		not detected	400	1.33 ug/L	
10061-02-6	trans-1,3-Dichloropropene	-		not detected	1000	0.73 ug/L	
79-00-5	1,1,2-Trichloroethane	ļ <u>.</u>		not detected	nle	1.43 ug/L	
127-18-4	Tetrachloroethene			not detected	3	1.49 ug/L	
591-78-6				not detected	1	0.92 ug/L	
126-48-1	2-Hexanone	-		not detected	nle	1.12 ug/L	
	Dibromochloromethane	<u> </u>	<del></del>	not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene	-		not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not_detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes	ļl		not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene	<u> </u>		not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene	<u> </u>		not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene	I	}	not detected	600	2.75 ug/L	

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Name v02756.d Operator

Date Acquired

Skelton

14 Jan 1998 15:58

Sample Name

3271.04

Field ID

MW31

Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	milets
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene		- ","	not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-1 <i>5-</i> 0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane	†		not detected	30	0.43 ug/L 0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2		
71-43-2	Benzene	1		not detected	1	1.20 ug/L	_
107-06-2	1,2-Dichloroethane	<del></del>		not detected	2	0.51 ug/L	
79-01-6	Trichloroethene			not detected	1	1.27 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.94 ug/L	
75-27-4	Bromodichloromethane	<del>   </del>		not detected	<del>  </del>	0.78 ug/L	
110-75-8	2-Chloroethyl vinyl ether	·	<del></del>		1	0.77 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	1.05 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.60 ug/L	
108-88-3	Toluene	╂	<del></del>	not detected	400	1.33 ug/L	
10061-02-6	trans-1,3-Dichloropropene	· <del> </del>		not detected	1000	0.73 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	nle	1.43 ug/L	
127-18-4	Tetrachloroethene	<del>                                     </del>		not detected	3	1.49 ug/L	
591-78-6	2-Hexanone	<del>                                     </del>		not detected	1	0.92 ug/L	
126-48-1	Dibromochloromethane	<del> </del>			nle	1.12 ug/L	
108-90-7	Chlorobenzene		<del></del>	not detected	10	1.36 ug/L	
100-41-4	Ethylbenzene	1		not detected not detected	4	0.66 ug/L	
1330-20-7	m+p-Xylenes		<del></del>		700	1.14 ug/L	
1330-20-7	o-Xylene	<del>  </del>		not detected not detected	nle	2.53 ug/L	•
100-42-5	Styrene	<del>  - </del>			nle	1.92 ug/L	<u> </u>
75-25-2	Bromoform	<del>  </del>	<del></del>	not detected	100	1.57 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	<del>                                     </del>		not detected	4	1.68 ug/L	
541-73-1	1,3-Dichlorobenzene	<del>   </del>	<del></del>	not detected	2	1.71 ug/L	
106-46-7	1,4-Dichlorobenzene	<del>                                     </del>	· · ·	not detected	600	2.51 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	74	3.08 ug/L	
	L1,2-Dictionogenzene		<u>Oualifiers</u>	not detected	600	2.75 ug/L	

#### <u>Qualifiers</u>

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Name v02757.d

Operator Date Acquired Skelton

14 Jan 1998 16:49

Sample Name

3271.05

Field ID

MW32

Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane	1		not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	_
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene	<b>†</b>		not detected	100	0.50 ug/L	<del> </del>
75-35-3	1,1-Dichloroethane			not detected	70		<u> </u>
108-05-4	Vinyl Acetate		<del></del>		1	0.83 ug/L	
78-93-3	2-Butanone	<del>                                     </del>		not detected	nle	2.07 ug/L	
, 6-23-3	cis-1,2-Dichloroethene	<del> </del>		not detected	300	2.06 ug/L	
67-66-3	Chloroform	-		not detected	10	0.65 ug/L	
75-55-6	1,1,1-Trichloroethane	<del> </del>		not detected	6	0.43 ug/L	
56-23-5	Carbon Tetrachloride	-	· ·	not detected	30	0.81 ug/L	
71-43-2	Benzene			not detected	2	1.20 ug/L	
107-06-2	1,2-Dichloroethane	<del> </del>		not detected	1	0.51 ug/L	
79-01-6	Trichloroethene	+		not detected	2	1.27 ug/L	
78-87-5	1,2-Dichloropropane	+	<del></del>	not detected	1 1	0.94 ug/L	
75-27-4		-		not detected	1 1	0.78 ug/L	
110-75-8	Bromodichloromethane			not detected	1	0.77 ug/L	
· · · · · · · · · · · · · · · · · · ·	2-Chloroethyl vinyl ether	ļ		not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone	<del> </del>		not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene	<b></b>		not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane		·	not detected	3	1.49 ug/L	
127-18-4	Tetrachioroethene	<del>                                     </del>	····	not detected	1	0.92 ug/L	
591-78-6	2-Hexanone	ļ <u>.</u>		not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane	<del>  </del>		not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene	<del> </del>		not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene	<u> </u>		not detected	nle	1.92 ug/L	
100-42-5	Styrene		<u></u>	not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71. ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene	J		not detected	600	2.75 ug/L	

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Name v02758.d Operator

Date Acquired

Skelton

14 Jan 1998 17:39

Sample Name

3271.06

Field ID

**MW33** 

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	<del>                                     </del>
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride	1		not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	_
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	1
67-64-1	Acetone	<del>                                     </del>		not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide	<u> </u>		not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride	<del>                                     </del>		not detected	2		
156-60-5	trans-1,2-Dichloroethene	1	<del></del>	not detected	100	1.66 ug/L 0.50 ug/L	
75-35-3	1,1-Dichloroethane	†	<del></del>	not detected	70		
108-05-4	Vinyl Acetate	<u> </u>		not detected	<del>!                                    </del>	0.83 ug/L.	
78-93-3	2-Butanone	<del></del>		not detected	nle 300	2.07 ug/L	
70 35 5	cis-1,2-Dichloroethene	<del>                                     </del>		not detected	<del>                                     </del>	2.06 ug/L	
67-66-3	Chloroform	<del>                                     </del>		not detected	10	0.65 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	6	0.43 ug/L	
56-23-5	Carbon Tetrachloride	<del> </del>			30	0.81 ug/L	
71-43-2	Benzene			not detected	2	1.20 ug/L	
107-06-2	1,2-Dichloroethane	<del>                                     </del>		not detected	1 1	0.51 ug/L	
79-01-6	Trichloroethene			not detected not detected	2	1.27 ug/L	
78-87-5	1,2-Dichloropropane				1	0.94 ug/L	
75-27-4	Bromodichloromethane	1		not detected	1	0.78 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	1	0.77 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	1.05 ug/L	
108-10-1	4-Methyl-2-Pentanone	<del> </del>		not detected	nle	0.60 ug/L	
108-88-3	Toluene	<del>  </del>		not detected	400	1.33 ug/L	
10061-02-6	trans-1,3-Dichloropropene	<del> </del>		not detected	1000	0.73 ug/L	
79-00-5	1,1,2-Trichloroethane	+	<del></del>	not detected	nle	1.43 ug/L	'
127-18-4	Tetrachloroethene	<del> </del>		not detected	3	1.49 ug/L	
591-78-6	2-Hexanone	1		not detected	1	0.92 ug/L	
126-48-1	Dibromochloromethane	<del>   </del>		not detected	nle	1.12 ug/L	
108-90-7	Chlorobenzene		<del></del>	not detected	10	1.36 ug/L	
100-41-4	Ethylbenzene	+		not detected	4	0.66 ug/L	
1330-20-7	T	<del> </del>		not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes	<del>   </del>		not detected	nle	2.53 ug/L	:
	o-Xylene	<del>                                     </del>		not detected	nle	1.92 ug/L	
100-42-5 75-25-2	Styrene	<del> </del>		not detected	100	1.57 ug/L	
75-25-2	Bromoform	<del>[                                    </del>		not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	<del> </del>	· · · · · · · · · · · · · · · · · · ·	not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene	<del>  </del>		not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene		Oualifiers	not detected	600	2.75 ug/L	

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

#### Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name V02759.D Operator

Date Acquired

Skeiton

14 Jan 1998 18:28

Sample Name

3271.07

1

Field ID

Field Dup

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile	_].		not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether	<u> </u>		not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	<u></u>
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene		-	not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.43 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane	1		not detected	2	1.27 ug/L	
79-01-6	Trichloroethene	-		not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane	† · · · · · · · · · · · · · · · · · · ·		not detected	1	0.74 ug/L	
75-27-4	Bromodichloromethane	1		not detected	1		
110-75-8	2-Chloroethyl vinyl ether	1		not detected	nle	0.77 ug/L 1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene	1		not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400		
108-88-3	Toluene	<del>                                     </del>	<del></del>	not detected	1000	1.33 ug/L	
10061-02-6	trans-1,3-Dichloropropene	† <del>-</del>		not detected	nle	0.73 ug/L	
79-00-5	1,1,2-Trichloroethane	<del>  </del>		not detected	3	1.43 ug/L 1.49 ug/L	
127-18-4	Tetrachloroethene	<del> </del>		not detected	1		
591-78-6	2-Hexanone	1		not detected	nle	0.92 ug/L	
126-48-1	Dibromochloromethane	<del>†</del>		not detected	10	1.12 ug/L	
108-90-7	Chlorobenzene	1				1.36 ug/L	
100-41-4	Ethylbenzene	<del>  </del>		not detected	700	0.66 ug/L	
1330-20-7	m+p-Xylenes	1		not detected	700	1.14 ug/L	
1330-20-7	o-Xylene	<del>  </del>	<del></del>	not detected	nle	2.53 ug/L	
100-42-5	Styrene	+	<del></del>	not detected	nle	1.92 ug/L	
75-25-2	Bromoform	<del>                                     </del>		not detected	100	1.57 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane		<del></del>	not detected	4	1.68 ug/L	
541-73-1	1,3-Dichlorobenzene	<del>                                     </del>		not detected	2	1.71 ug/L	
106-46-7	1,4-Dichlorobenzene	<del>                                     </del>		not detected	600	2.51 ug/L	
95-50-1	1,4-Dichlorobenzene	<del>  </del>		not detected	74	3.08 ug/L	
33-30-1	11,2-Dichiorobenzene	<u> </u>		not detected	600	2.75 ug/L	

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

### 1E VOLATILE ORGANICS ANA! TEN

TILE ORGANICS ANALTSIS DATA SHEET	FIELD ID
NTATIVELY IDENTIFIED COMPOUNDS	
	VBLK

Lab Name:	FMETL			Project			VBLK14	ļ. ļ
NJDEP#	13461	Case	e No.: <u>3271</u>	Location	CW-2	SDG	 No.:	
Matrix: (soil/w	rater)	WATER		Lab	Sample II	): <u>VB</u> I	_K14	
Sample wt/vo	l:	5.0	(g/ml) ML	Lab	File ID:	V02	2752.D	_
Level: (iow/m	ned)	LOW		Dat	e Receive	d: <u>01/</u> 0	08/98	- -
% Moisture: n	ot dec.			Dat	e Analyzed	d: <u>01/</u>	14/98	_
GC Column:	<u>RTX-50</u>	0.25 D: 0.25	5 (mm)	Dilu	ition Factor	r: <u>1.0</u>		₹ _
Soil Extract V	olume: _		(uL)	Soil	Aliquot Vo	olume:		(uL)
				CONCENTRAT		S:		
Number TICs	found:	0		(ug/L or ug/Kg)	UG/L		<b>.</b> .	
CAS NO.		COMPOUN	ID		RT i	EST. C	ONC	

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL		Project	Trip Blank
NJDEP#	13461	Case No.: 327	'1 Location CW-2 S	DG No.:
Matrix: (soil/v	water)	WATER	Lab Sample ID:	3271.01
Sample wt/vo	oi:	5.0 (g/ml) ML	Lab File ID:	V02753.D
Level: (low/r	ned)	LOW	Date Received:	01/08/98
% Moisture:	not dec.	······································	Date Analyzed:	01/14/98
GC Column:	RTX-5	502 ID: <u>0.25</u> (mm)	Dilution Factor:	1.0
Soil Extract \	/olume:	(uL)	Soil Aliquot Volu	me: (uL
•			CONCENTRATION UNITS:	
Number TICs	s found:	<u> </u>	(ug/L or ug/Kg) UG/L	
CAS NO.		COMPOUND	RT ES	ST. CONC. Q

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID	F	IELD	ID
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Lab Name:	<b>FMETL</b>	<u> </u>	Project	Field Blank
NJDEP#	13461	Case No.: 327	1 Location CW-2 SD	G No.:
Matrix: (soil/	water)	WATER	Lab Sample ID: 3	3271.02
Sample wt/vo	ol:	5.0 (g/ml) ML	Lab File ID:	/02754.D
Level: (low/r	med)	LOW	Date Received: 0	1/08/98
% Moisture:	not dec.		Date Analyzed: 0	)1/14/98
GC Column:	RTX-8	502 ID: <u>0.25</u> (mm)	Dilution Factor: 1	.0
Soil Extract \	Volume:	(uL)	Soil Aliquot Volum	e: (uL)
Number TICs	s found:	0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	<del></del>
CAS NO.		COMPOUND	RT EST	CONC. Q

# 1E VOLATILE ORGANICS ANALYSIS DATA SHEET

DITTEL OTTO MINOU MINEL TOTO DATA OF IL	-1-1
TENTATIVELY IDENTIFIED COMPOUNDS	<b>.</b>

FIELD ID
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Lab Name:	FMETL		Project			M\	W30
NJDEP#	13461	Case No.: 3271	Locatio	n CW-	2 S	DG No.:	
Matrix: (soil/v	water)	WATER	La	b Sampl	e ID:	3271.03	
Sample wt/vo	ol:	5.0 (g/ml) ML	La	b File ID	);	V02755.D	
Level: (low/r	ned)	LOW	Da	ite Rece	ived:	01/08/98	
% Moisture:	not dec.	·	Da	ite Analy	zed:	01/14/98	
GC Column:	RTX-	502 ID: <u>0.25</u> (mm)	Dil	ution Fa	ctor:	1.0	_
Soil Extract \	/olume:	(uL)	So	il Aliquo	t Volu	me:	(uL)
Number TICs	s found:	1	CONCENTRAT		NTS: B/L		
CAS NO.		COMPOUND		RT	ES	ST. CONC.	Q
1		unknown hydrocarbon	· ·	13.81	1	15	1

### VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL		Project			MW	/31
NJDEP#	13461	Case No.: 3271	 Locat	ion CW-2	S[	DG No.:	
Matrix: (soil/	water)	WATER	. 1	ab Sample	ID:	3271.04	
Sample wt/ve	ol:	5.0 (g/ml) ML		ab File ID:		V02756.D	
Level: (low/r	med)	LOW	. п	Date Receiv	ed:	01/08/98	
% Moisture:	not dec.		Г	Date Analyz	ed:	01/14/98	
GC Column:	RTX-	502 ID: <u>0.25</u> (mm)	Ε	Dilution Fac	tor:	1.0	
Soil Extract \	Volume:	(uL)	5	Soil Aliquot	Volur	ne:	(uL)
Number TICs	s found:	1	CONCENTRA (ug/L or ug/K				
CAS NO.		COMPOUND		RT	ES	T. CONC.	Q
1.		unknown hydrocarbon		13.80		30	.1

### VOLATILE ORGANICS ANALYSIS DATA SHEET

ENTATIVELY IDENTIFIED COMPOUNDS
ENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL	·	Project			MW3	32
NJDEP#	13461	Case No.: 327	<u> </u>	CW-2	SD	G No.:	·
Matrix: (soil/v	water)	WATER	Lab	Sample	- ID: 3	3271.05	
Sample wt/vo	ol:	5.0 (g/ml) ML	Lab	File ID:	•	V02757.D	
Level: (low/r	ned)	LOW	Dat	e Receive	ed: <u>(</u>	01/08/98	<del>.</del>
% Moisture:	not dec.		Dat	e Analyze	ed: (	01/14/98	<del></del>
GC Column:	RTX-	502 ID: <u>0.25</u> (mm)	Dilu	tion Facto	or:	1.0	
Soil Extract Volume:		(uL)	Soil Aliquot Volum			ne:	(uL)
Number TICs	s found:	11	CONCENTRATI (ug/L or ug/Kg)	ION UNIT			
CAS NO.		COMPOUND		RT	EST	CONC.	Q
1.		unknown hydrocarbon		13.81		33	J

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		Project		MW3	3
NJDEP#	13461	Case No.: 327	Location CW	/-2 S	 DG No.:	
Matrix: (soil/	water)	WATER	Lab Sam	ple ID:	3271.06	
Sample wt/ve	ol:	5.0 (g/ml) ML	Lab File I	D:	V02758.D	
Level: (low/r	med)	LOW	Date Red	eived:	01/08/98	
% Moisture:	not dec.		Date Ana	lyzed:	01/14/98	
GC Column:	RTX-	502 ID: 0.25 (mm)	Dilution F	actor:	1.0	
Soil Extract \	Volume:	(uL)	Soil Aliqu	ot Volui	me:	(u <b>L</b> )
Number TICs	s found:	1	CONCENTRATION L (ug/L or ug/Kg) L	JNITS: JG/L		
CAS NO.		COMPOUND	RT	ES	T. CONC.	Q
1. 00106	6-40-6	Silanol, trimethyl-	13.8	1	50	IN

### VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

65

JN

Lab Name:	FMETL		Project			Field i	Dup
NJDEP#	13461	Case No.: 3	271 Location	on CW-2	SD	G No.:	
Matrix: (soil/	water)	WATER	La	ab Sample	_ ID: <u>3</u>	3271.07	<u> </u>
Sample wt/ve	ol:	5.0 (g/ml) <u>M</u>	VILLa	ab File ID:	١	V02759.D	
Level: (low/r	ned)	LOW	D	ate Receiv	ed: (	01/08/98	
% Moisture:	not dec.		. Da	ate Analyz	ed: (	01/14/98	<del></del>
GC Column:	RTX-8	502 ID: <u>0.25</u> (mm	ı) Di	lution Fact	or: _1	1.0	
Soil Extract \	/olume:	(uL)	So	oil Aliquot \	- /olum	ne:	(uL)
Number TICs	s found:	2	CONCENTRA (ug/L or ug/Kg				
CAS NO.		COMPOUND		RT	EST	CÒNC.	Q
1,		unknown hydrocarbo	on	6.50		8	J
2. 00106	6-40-6	Silanol, trimethyl-		13.80		65	JN

13.80

#### Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name bn0910.d

Sample Name

SBLK17

Operator

Skelton

Misc Info

01/09/98

Date Acquired 01/27/98 16:48

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 սք	z/L
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug	z/L
62-53-3	Aniline			not detected	NLE	0.15 ug	z/L
108-95-2	Phenol			not detected	4000	0.47 ug	z/L
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug	z/L
95-57-8	2-Chlorophenol			not detected	40	0.18 ug	<sub>2</sub> /L
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug	
106-46-7	1,4-Dichlorobenzene			not detected	75	0,23 ug	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug	
	2-Methylphenol			not detected	NLE	0.14 ug	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug	
	4-Methylphenol			not detected	NLE	0.14 ug	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug	
67-72-1	Hexachloroethane			not detected	10	0.33 ug	
98-95-3	Nitrobenzene			not detected	10	0.46 ug	
78-59-1	Isophorone			not detected	100	0.35 ug	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug	
120-83-2	2,4-Dichlorophenol			not detected	20	0.40 ug	
65-85-0	Benzoic Acid			not detected			
120-82-I	1,2,4-Trichlorobenzene			not detected	NLE	0.26 ug	
91-20-3	Naphthalene				9	0.25 ug 0.25 ug	
106-47-8	4-Chloroaniline			not detected not detected	NLE		
87-68-3	Hexachlorobutadiene			not detected	NLE .	0.19 ug	
59-50-7	4-Chloro-3-methylphenol			not detected	1	0.38 ug 0.18 ug	
91-57-6	2-Methylnaphthalene			not detected	NLE		
77-47-4	Hexachiorocyclopentadiene			not detected	NLE 50	0.16 ug 1.50 ug	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug	
	2,4,5-Trichlorophenol			not detected	700	0.42 ug	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.31 ug	
88-74-4	2-Nitroaniline			not detected		0.32 ug	
131-11-3	Dimethylphthalate			not detected	NLE	0.21 ug	
208-96-8	Acenaphthylene		· ·	not detected	7000		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.19 ug	
99-09-2	3-Nitroaniline	+	<del></del>		NLE	0.31 ug	
83-32-9	Acenaphthene		<del></del>	not detected	NLE	0.26 ug	
51-28-5	2,4-Dinitrophenol		<del></del>	not detected	400	0.26 ug	
132-64-9	Dibenzofuran			not detected	40	0.69 ug	
100-02-7	4-Nitrophenol			not detected	_ NLE	0.32 ug	
100-02-7	[4-миориено]			not detected	NLE	0.27 ug	<u>/L [</u>

#### Semi-Volatile Analysis Report Page 2

Data File Name bn0910.d

Operator

Skelton

Sample Name

SBLK17

Misc Info

01/09/98

Date Acquired 01/27/98 16:48 Sample Multiplier 1

		<del></del>			· · · · · · · · · · · · · · · · · · ·			
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine		·	not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene		:	not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18		
120-12-7	Anthracene	T		not detected	2000	0.19		
84-74-2	Di-n-butylphthalate	20.22	899160	7.96 ug/L	900	0.23		
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79		
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40		

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name bn0930.d

Sample Name

3271-2

Operator

Skelton

Misc Info

FIELD BLANK

Date Acquired

01/28/98 06:49

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug/L	
62-53-3	Aniline			not detected	NLE	0.15 ug/L	
108-95-2	Phenol			not detected	4000	0.47 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug/L	
	2-Methylphenol	<u> </u>		not detected	NLE	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/L	
	4-Methylphenol			not detected	NLE	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46 ug/L	
78-59-1	Isophorone			not detected	100	0.35 ug/L	
88-75-5	2-Nitrophenol		·	not detected	NLE	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug/L	<u> </u>
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0:38 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	. 20	0.42 ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31 ug/L	
91-58-7	2-Chioronaphthalene			not detected	NLE	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/L	
131-11-3	Dimethylphthalate		'	not detected	7000	0.18 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/L	· ·
83-32-9	Acenaphthene			not detected	400	0.26 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name

bn0930.d

Skelton

Sample Name

3271-2

Misc Info

FIELD BLANK

Date Acquired

Operator

01/28/98 06:49

Sample Multiplier 1

					·			
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20		ug/L	
103-33-3	Azobenzene			not detected	NLE		ug/L	
101-55-3	4-Bromophenyl-phenylether			not détected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10		ug/L	
87-86-5	Pentachlorophenol			not detected	1		ug/L	
85-01-8	Phenanthrene		***	not detected	NLE		ug/L	
120-12-7	Anthracene			not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate	20.20	198093	1.86 ug/L	900		ug/L	В
206-44-0	Fluoranthene			not detected	300		ug/L	
92-87-5	Benzidine			not detected	50		ug/L	
129-00-0	Pyrene			not detected	200	0.32	_	
85-68-7	Butylbenzylphthalate			not detected	100	0.47		
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	25.21	1166369	22.37 ug/L	30	0.51	ug/L	
117-84-0	Dì-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene	e		not detected	2	0.32		
50-32-8	Benzo[a]pyrene			not detected	20	0.31		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20		ug/L	<del> </del>
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40		

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

### NLE = No Limit Established U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name bn0931.d

Sample Name

3271-3

Operator

Skelton

Misc Info

MW 30

Date Acquired 01/28/98 07:31

Sample Multiplier 1

110-86-1	CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
62-75-9   N-nitroso-dimethylamine   not detected   20   0.94 ug/L	110-86-1	Pyridine			not detected	NLE	5.00	ug/L	
108-95-2   Phenol	62-75-9	N-nitroso-dimethylamine			not detected	20			
108-95-2   Phenol	62-53-3	Aniline		_	not detected	NLE			
111-44-4   bis(2-Chlorophenol   not detected   10   0.48 ug/L     95-57-8   2-Chlorophenol   not detected   40   0.18 ug/L     1.3-Dichlorobenzene   not detected   40   0.18 ug/L     106-46-7   1,4-Dichlorobenzene   not detected   75   0.23 ug/L     100-51-6   Benzyl alcohol   not detected   NLE   0.18 ug/L     95-50-1   1,2-Dichlorobenzene   not detected   NLE   0.18 ug/L     108-60-1   bis(2-chlorospropyl)ether   not detected   NLE   0.14 ug/L     108-60-1   bis(2-chlorospropyl)ether   not detected   NLE   0.14 ug/L     4-Methylphenol   not detected   NLE   0.14 ug/L     621-64-7   n-Nitroso-di-n-propylamine   not detected   0.0 0.61 ug/L     98-95-3   Nitrobenzene   not detected   0.0 0.50 ug/L     98-95-3   Nitrobenzene   not detected   10 0.46 ug/L     98-95-3   Nitrobenzene   not detected   10 0.33 ug/L     98-95-3   Sisphorone   not detected   10 0.46 ug/L     105-67-9   2,4-Dimethylphenol   not detected   NLE   0.12 ug/L     105-67-9   2,4-Dimethylphenol   not detected   NLE   0.21 ug/L     111-91-1   bis(2-Chloroethoxy)methane   not detected   NLE   0.46 ug/L     120-83-2   2,4-Dimethylphenol   not detected   NLE   0.46 ug/L     120-83-2   2,4-Dichlorophenol   not detected   NLE   0.46 ug/L     120-83-2   2,4-Dichlorophenol   not detected   NLE   0.26 ug/L     120-83-1   1,2,4-Trichlorobenzene   not detected   NLE   0.26 ug/L     120-83-2   4-Chloroaniline   not detected   NLE   0.29 ug/L     191-20-3   Naphthelene   not detected   NLE   0.19 ug/L     191-37-6   4-Chloro-amethylphenol   not detected   NLE   0.29 ug/L     191-37-6   2-Methylpapthhalene   not detected   NLE   0.18 ug/L     191-38-6-8   A-Chloro-amethylphenol   not detected   NLE   0.19 ug/L     191-38-70-4   4-Chloro-amethylphenol   not detected   NLE   0.19 ug/L     191-39-30-30-30-30-30-30-30-30-30-30-30-30-30-	108-95-2	Phenol			not detected	4000			
95-57-8   2-Chlorophenol   not detected   40   0.18 ug/L     541-73-1   1,3-Dichlorobenzene   not detected   50   0.15 ug/L     105-45-7   1,4-Dichlorobenzene   not detected   75   0.23 ug/L     100-51-6   Benzyl alcohol   not detected   Nie   0.18 ug/L     95-50-1   1,2-Dichlorobenzene   not detected   Nie   0.16 ug/L     2-Methylphenol   not detected   Nie   0.16 ug/L     108-60-1   bis/2-chloroisopropyl)ether   not detected   Nie   0.14 ug/L     4-Methylphenol   not detected   Nie   0.14 ug/L     4-Methylphenol   not detected   Nie   0.14 ug/L     521-64-7   n-Nitroso-di-n-propylamine   not detected   20   0.36 ug/L     67-72-1   Hexachlorostane   not detected   10   0.33 ug/L     67-73-1   Hexachlorostane   not detected   10   0.33 ug/L     78-99-1   Isophorone   not detected   10   0.35 ug/L     88-75-5   2-Nitrophenol   not detected   100   0.33 ug/L     105-67-9   2,4-Dimetylphenol   not detected   Nie   0.23 ug/L     111-91-1   bis/2-Chlorothoxy)methane   not detected   Nie   0.27 ug/L     111-91-1   bis/2-Chlorothoxy)methane   not detected   Nie   0.46 ug/L     120-83-2   2,4-Diinforophenol   not detected   Nie   0.40 ug/L     120-83-2   1,2,4-Trichlorobenzene   not detected   Nie   0.40 ug/L     91-20-3   Naphthalene   not detected   Nie   0.25 ug/L     106-47-8   4-Chloro-amethylphenol   not detected   Nie   0.29 ug/L     91-20-3   Naphthalene   not detected   Nie   0.38 ug/L     95-50-7   4-Chloro-amethylphenol   not detected   Nie   0.19 ug/L     91-57-6   2-Methylmaphthalene   not detected   Nie   0.38 ug/L     91-58-7   2-Chlorophenol   not detected   Nie   0.19 ug/L     91-58-7   2-Chlorophenol   not detected   Nie   0.19 ug/L     91-58-7   2-Chlorophenol   not detected   Nie   0.19 ug/L     91-59-6   2-Methylmaphthalene   not detected   Nie   0.19 ug/L     92-90-92   3-Nitroaniline   not detected   Nie   0.19 ug/L     90-90-2   3-Dinitrophenol   not detected   Nie   0.19 ug/L     90-90-2   3-Dinitrophenol   not detected   Nie   0.19 ug/L     90-90-2   3-Dinitrophenol   not detected   Nie   0.	111-44-4	bis(2-Chloroethyl)ether			not detected	10			
S41-73-1   1,3-Dichlorobenzene   not detected   600   0.15 ug/L	95-57-8	2-Chlorophenol		·	not detected	40			
106-46-7	541-73-1	1,3-Dichlorobenzene			not detected	600			<u> </u>
100-51-6   Benzyl alcohol   not detected   Nie   0.18   ug/L	106-46-7	1,4-Dichlorobenzene			not detected	75	1		
95-50-1   1,2-Dichlorobenzene   not detected   600   0.16   ug/L	100-51-6	Benzyl alcohol			not detected	NLE			
2-Methylphenol	95-50-1	1,2-Dichlorobenzene			not detected				
108-60-1   bis(2-chloroisopropyl)ether		2-Methylphenol			not detected	NLE			
4-Methylphenol   not detected   Nie   0.14   ug/L	108-60-1	bis(2-chloroisopropyl)ether							
621-64-7   n-Nitroso-di-n-propylamine   not detected   20   0.36 ug/L									
Section   Sect	621-64-7	n-Nitroso-di-n-propylamine							
98-95-3   Nitrobenzene   not detected   10   0.46 ug/L	67-72-1	Hexachloroethane			not detected				
T8-59-1   Isophorone	98-95-3	Nitrobenzene							
88-75-5   2-Nitrophenol   not detected   NLE   0.23 ug/L	78-59-1	Isophorone		***************************************	not detected				
105-67-9   2,4-Dimethylphenol   not detected   100   0.27   ug/L	88-75-5	"" <u>"</u>			not detected				
111-91-1   bis(2-Chloroethoxy)methane   not detected   NLE   0.46   ug/L     120-83-2   2,4-Dichlorophenol   not detected   20   0.12   ug/L     65-85-0   Benzoic Acid   not detected   NLE   0.26   ug/L     120-82-1   1,2,4-Trichlorobenzene   not detected   9   0.25   ug/L     91-20-3   Naphthalene   not detected   NLE   0.25   ug/L     106-47-8   4-Chloroaniline   not detected   NLE   0.19   ug/L     87-68-3   Hexachlorobutadiene   not detected   1   0.38   ug/L     59-50-7   4-Chloro-3-methylphenol   not detected   NLE   0.18   ug/L     91-57-6   2-Methylnaphthalene   not detected   NLE   0.16   ug/L     77-47-4   Hexachlorocyclopentadiene   not detected   50   1.50   ug/L     88-06-2   2,4,6-Trichlorophenol   not detected   700   0.31   ug/L     91-58-7   2-Chloronaphthalene   not detected   NLE   0.32   ug/L     83-74-4   2-Nitroaniline   not detected   NLE   0.21   ug/L     131-11-3   Dimethylphthalate   not detected   NLE   0.19   ug/L     208-96-8   Acenaphthylene   not detected   NLE   0.31   ug/L     99-09-2   3-Nitroaniline   not detected   NLE   0.31   ug/L     83-32-9   Acenaphthene   not detected   NLE   0.26   ug/L     51-28-5   2,4-Dinitrophenol   not detected   400   0.69   ug/L	105-67-9	2,4-Dimethylphenol							
120-83-2   2,4-Dichlorophenol   not detected   20   0.12 ug/L	111-91-1	bis(2-Chloroethoxy)methane							
120-82-1   1,2,4-Trichlorobenzene   not detected   9   0.25 ug/L     120-82-1   1,2,4-Trichlorobenzene   not detected   9   0.25 ug/L     106-47-8   4-Chloroaniline   not detected   NLE   0.19 ug/L     87-68-3   Hexachlorobutadiene   not detected   1   0.38 ug/L     59-50-7   4-Chloro-3-methylphenol   not detected   NLE   0.18 ug/L     91-57-6   2-Methylnaphthalene   not detected   NLE   0.16 ug/L     77-47-4   Hexachlorocyclopentadiene   not detected   50   1.50 ug/L     88-06-2   2,4,6-Trichlorophenol   not detected   20   0.42 ug/L     2,4,5-Trichlorophenol   not detected   NLE   0.32 ug/L     91-58-7   2-Chloronaphthalene   not detected   NLE   0.32 ug/L     88-74-4   2-Nitroaniline   not detected   NLE   0.21 ug/L     131-11-3   Dimethylphthalate   not detected   NLE   0.21 ug/L     208-96-8   Acenaphthylene   not detected   NLE   0.19 ug/L     208-96-8   Acenaphthylene   not detected   NLE   0.31 ug/L     99-09-2   3-Nitroaniline   not detected   NLE   0.31 ug/L     83-32-9   Acenaphthene   not detected   NLE   0.26 ug/L     83-32-5   2,4-Dinitrophenol   not detected   400   0.26 ug/L     51-28-5   2,4-Dinitrophenol   not detected   400   0.69 ug/L	120-83-2	2,4-Dichlorophenol							<u></u>
120-82-1   1,2,4-Trichlorobenzene   not detected   9   0.25   ug/L     91-20-3   Naphthalene   not detected   NLE   0.25   ug/L     106-47-8   4-Chloroaniline   not detected   NLE   0.19   ug/L     87-68-3   Hexachlorobutadiene   not detected   1   0.38   ug/L     59-50-7   4-Chloro-3-methylphenol   not detected   NLE   0.18   ug/L     91-57-6   2-Methylnaphthalene   not detected   NLE   0.16   ug/L     77-47-4   Hexachlorocyclopentadiene   not detected   50   1.50   ug/L     88-06-2   2,4,6-Trichlorophenol   not detected   20   0.42   ug/L     2,4,5-Trichlorophenol   not detected   NLE   0.31   ug/L     91-58-7   2-Chloronaphthalene   not detected   NLE   0.32   ug/L     88-74-4   2-Nitroaniline   not detected   NLE   0.21   ug/L     131-11-3   Dimethylphthalate   not detected   NLE   0.19   ug/L     208-96-8   Acenaphthylene   not detected   NLE   0.19   ug/L     606-20-2   2,6-Dinitrotoluene   not detected   NLE   0.31   ug/L     99-09-2   3-Nitroaniline   not detected   NLE   0.26   ug/L     83-32-9   Acenaphthene   not detected   400   0.26   ug/L     51-28-5   2,4-Dinitrophenol   not detected   400   0.69   ug/L	65-85-0	<del></del>							
91-20-3 Naphthalene	120-82-1	<del></del>							<del> </del>
106-47-8	91-20-3								
87-68-3         Hexachlorobutadiene         not detected         1         0.38 ug/L           59-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.18 ug/L           91-57-6         2-Methylnaphthalene         not detected         NLE         0.16 ug/L           77-47-4         Hexachlorocyclopentadiene         not detected         50         1.50 ug/L           88-06-2         2,4,6-Trichlorophenol         not detected         20         0.42 ug/L           2,4,5-Trichlorophenol         not detected         700         0.31 ug/L           91-58-7         2-Chloronaphthalene         not detected         NLE         0.32 ug/L           88-74-4         2-Nitroaniline         not detected         NLE         0.21 ug/L           131-11-3         Dimethylphthalate         not detected         NLE         0.19 ug/L           208-96-8         Acenaphthylene         not detected         NLE         0.31 ug/L           99-09-2         3-Nitroaniline         not detected         NLE         0.26 ug/L           83-32-9         Acenaphthene         not detected         40         0.69 ug/L	106-47-8	4-Chloroaniline	1						
59-50-7   4-Chloro-3-methylphenol   not detected   NLE   0.18 ug/L	87-68-3	Hexachlorobutadiene		·	<u> </u>				
91-57-6         2-Methylnaphthalene         not detected         NLE         0.16 ug/L           77-47-4         Hexachlorocyclopentadiene         not detected         50         1.50 ug/L           88-06-2         2,4,6-Trichlorophenol         not detected         20         0.42 ug/L           2,4,5-Trichlorophenol         not detected         700         0.31 ug/L           91-58-7         2-Chloronaphthalene         not detected         NLE         0.32 ug/L           88-74-4         2-Nitroaniline         not detected         NLE         0.21 ug/L           131-11-3         Dimethylphthalate         not detected         NLE         0.19 ug/L           208-96-8         Acenaphthylene         not detected         NLE         0.31 ug/L           606-20-2         2,6-Dinitrotoluene         not detected         NLE         0.31 ug/L           99-09-2         3-Nitroaniline         not detected         NLE         0.26 ug/L           83-32-9         Acenaphthene         not detected         400         0.26 ug/L           51-28-5         2,4-Dinitrophenol         not detected         40         0.69 ug/L	59-50-7	4-Chloro-3-methylpheno!							
77-47-4         Hexachlorocyclopentadiene         not detected         50         1.50 ug/L           88-06-2         2,4,6-Trichlorophenol         not detected         20         0.42 ug/L           2,4,5-Trichlorophenol         not detected         700         0.31 ug/L           91-58-7         2-Chloronaphthalene         not detected         NLE         0.32 ug/L           88-74-4         2-Nitroaniline         not detected         NLE         0.21 ug/L           131-11-3         Dimethylphthalate         not detected         NLE         0.19 ug/L           208-96-8         Acenaphthylene         not detected         NLE         0.19 ug/L           606-20-2         2,6-Dinitrotoluene         not detected         NLE         0.31 ug/L           99-09-2         3-Nitroaniline         not detected         NLE         0.26 ug/L           83-32-9         Acenaphthene         not detected         400         0.26 ug/L           51-28-5         2,4-Dinitrophenol         not detected         40         0.69 ug/L	91-57-6	2-Methylnaphthalene							· · · · ·
88-06-2         2,4,6-Trichlorophenol         not detected         20         0.42 ug/L           2,4,5-Trichlorophenol         not detected         700         0.31 ug/L           91-58-7         2-Chloronaphthalene         not detected         NLE         0.32 ug/L           88-74-4         2-Nitroaniline         not detected         NLE         0.21 ug/L           131-11-3         Dimethylphthalate         not detected         NLE         0.19 ug/L           208-96-8         Acenaphthylene         not detected         NLE         0.19 ug/L           606-20-2         2,6-Dinitrotoluene         not detected         NLE         0.31 ug/L           99-09-2         3-Nitroaniline         not detected         NLE         0.26 ug/L           83-32-9         Acenaphthene         not detected         400         0.26 ug/L           51-28-5         2,4-Dinitrophenol         not detected         40         0.69 ug/L	77-47-4	Hexachlorocyclopentadiene			-				
2,4,5-Trichlorophenol         not detected         700         0.31 ug/L           91-58-7         2-Chloronaphthalene         not detected         NLE         0.32 ug/L           88-74-4         2-Nitroaniline         not detected         NLE         0.21 ug/L           131-11-3         Dimethylphthalate         not detected         7000         0.18 ug/L           208-96-8         Acenaphthylene         not detected         NLE         0.19 ug/L           606-20-2         2,6-Dinitrotoluene         not detected         NLE         0.31 ug/L           99-09-2         3-Nitroaniline         not detected         NLE         0.26 ug/L           83-32-9         Acenaphthene         not detected         400         0.26 ug/L           51-28-5         2,4-Dinitrophenol         not detected         40         0.69 ug/L	88-06-2	2,4,6-Trichlorophenol							
91-58-7         2-Chloronaphthalene         not detected         NLE         0.32 ug/L           88-74-4         2-Nitroaniline         not detected         NLE         0.21 ug/L           131-11-3         Dimethylphthalate         not detected         7000         0.18 ug/L           208-96-8         Acenaphthylene         not detected         NLE         0.19 ug/L           606-20-2         2,6-Dinitrotoluene         not detected         NLE         0.31 ug/L           99-09-2         3-Nitroaniline         not detected         NLE         0.26 ug/L           83-32-9         Acenaphthene         not detected         400         0.26 ug/L           51-28-5         2,4-Dinitrophenol         not detected         40         0.69 ug/L		2,4,5-Trichlorophenol							
88-74-4         2-Nitroaniline         not detected         NLE         0.21 ug/L           131-11-3         Dimethylphthalate         not detected         7000         0.18 ug/L           208-96-8         Acenaphthylene         not detected         NLE         0.19 ug/L           606-20-2         2,6-Dinitrotoluene         not detected         NLE         0.31 ug/L           99-09-2         3-Nitroaniline         not detected         NLE         0.26 ug/L           83-32-9         Acenaphthene         not detected         400         0.26 ug/L           51-28-5         2,4-Dinitrophenol         not detected         40         0.69 ug/L	91-58-7								
131-11-3         Dimethylphthalate         not detected         7000         0.18 ug/L           208-96-8         Acenaphthylene         not detected         NLE         0.19 ug/L           606-20-2         2,6-Dinitrotoluene         not detected         NLE         0.31 ug/L           99-09-2         3-Nitroaniline         not detected         NLE         0.26 ug/L           83-32-9         Acenaphthene         not detected         400         0.26 ug/L           51-28-5         2,4-Dinitrophenol         not detected         40         0.69 ug/L	88-74-4	<del>  "                                   </del>						_	
208-96-8         Acenaphthylene         not detected         NLE         0.19 ug/L           606-20-2         2,6-Dinitrotoluene         not detected         NLE         0.31 ug/L           99-09-2         3-Nitroaniline         not detected         NLE         0.26 ug/L           83-32-9         Acenaphthene         not detected         400         0.26 ug/L           51-28-5         2,4-Dinitrophenol         not detected         40         0.69 ug/L								-	
606-20-2   2,6-Dinitrotoluene   not detected   NLE   0.31 ug/L		· · · · · · · · · · · · · · · · · · ·							
99-09-2         3-Nitroaniline         not detected         NLE         0.26 ug/L           83-32-9         Acenaphthene         not detected         400         0.26 ug/L           51-28-5         2,4-Dinitrophenol         not detected         40         0.69 ug/L				<del></del>	***			_	
83-32-9   Acenaphthene   not detected   400   0.26   ug/L		<del></del>							
51-28-5 2,4-Dinitrophenol not detected 40 0.69 ug/L									1 1
10 July 10 Jul								$\overline{}$	
								_	
100-02-7 4-Nitrophenol not detected NLE 0.27 ug/L		· · · · · · · · · · · · · · · · · · ·							

#### Semi-Volatile Analysis Report Page 2

Data File Name bn0931.d

Sample Name

3271-3

Operator

Skelton

Misc Info

MW 30

Date Acquired

01/28/98 07:31

Sample Multiplier 1

121-14-2	2,4-Dinitrotoluene	not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate	not detected	5000	0.82	ug/L	
86-73-7	Fluorene	not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline	not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	20	0.23	ug/L	
103-33-3	Azobenzene	not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene	not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenoi	not detected	1		ug/L	
85-01-8	Phenanthrene	not detected	NLE	0.18	ug/L	
120-12-7	Anthracene	not detected	2000	0.19	ug/L	•
84-74-2	Di-n-butylphthalate	not detected	900	0.23	ug/L	
206-44-0	Fluoranthene	not detected	300	- 0.41	ug/L	
92-87-5	Benzidine	not detected	50	1.45	ug/L	-
129-00-0	Pyrene	not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate	not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene	not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine	not detected	60	0.46	ug/L	
218-01-9	Chrysene	not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate	not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene	not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene .	not detected	2	0.32		
50-32-8	Benzo[a]pyrene	not detected	20		ug/L	·
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20		ug/L	***
53-70-3	Dibenz[a,h]anthracene	not detected	20	0.28		
191-24-2	Benzo[g,h,i]perylene	not detected	NLE	0.40		

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

#### Semi-Volatile Analysis Report

### NJDEP Certification #13461

Data File Name bn0932.d

Sample Name

3271-4

Operator

Skelton

Misc Info

MW 31

Date Acquired

01/28/98 08:13

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 ug/L	<u> </u>
62-75-9	N-nitroso-dimethylamine	<u> </u>		not detected	20	0.94 ug/L	
62-53-3	Aniline			not detected	NLE	0.15 ug/L	
108-95-2	Phenoi			not detected	4000	0.47 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug/L	
	2-Methylphenoi			not detected	NLE	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/L	
	4-Methylphenol			not detected	NLE	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug/L	
67-72-1	Hexachloroethane			not detected	10	0:33 ug/L	
98-95-3	Nitrobenzene	<b></b>		not detected	10	0.46 ug/L	
78-59-1	Isophorone			not detected	100	0.35 ug/L	****
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug/L	<del>  "</del>
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug/L	<del>                                     </del>
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/L	
106-47-8	4-Chloroaniline	,		not detected	NLE	0.19 ug/L	·
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/L	
77-47-4	Hexachiorocyclopentadiene			not detected	50	1.50 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/L	
83-32-9	Acenaphthene			not detected	400	0.26 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name bn0932.d

Date Acquired

Operator

Skelton

Sample Name

3271-4

01/28/98 08:13

Misc Info

MW 31

Sample Multiplier 1

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121-14-2	2,4-Dinitrotoluene			not detected	10		ug/L	
84-66-2	Diethylphthalate	<u> </u>		not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline	<u>                                     </u>		not detected	NLE	0,90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1	ug/L	
118-74-1	Hexachlorobenzene			not detected	10		ug/L	
87-86-5	Pentachlorophenol			not detected	1		ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate	20.21	447067	3.75 ug/L	900		ug/L	В
206-44-0	Fluoranthene			not detected	300		ug/L	
92-87-5	Benzidine			not detected	50		ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20		ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30		ug/L	
117-84-0	Di-n-octylphthalate			not detected	100		ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10		ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2		ug/L	
50-32-8	Benzo[a]pyrene			not detected	20		ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20		ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40		

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

#### Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name bn0933.d

Sample Name

3271-5

Operator

Skelton

Misc Info

MW 32

Date Acquired

01/28/98 08:55

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug/L	
62-53-3	Aniline			not detected	NLE	0.15 ug/L	
108-95-2	Phenol			not detected	4000	0.47 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug/L	
	2-Methylphenol			not detected	NLE	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/L	
	4-Methylphenol			not detected	NLE	0.14 ug/L	· · · · · · · · · · · · · · · · · · ·
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46 ug/L	
78-59-1	Isophorone			not detected	100	0.35 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/L	<u> </u>
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug/L	<u> </u>
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/L	
83-32-9	Acenaphthene			not detected	400	0.26 ug/L	[ <del></del>
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name bn0933.d

Operator

Skelton

Sample Name

3271-5

Misc Info

MW 32

Date Acquired 01/28/98 08:55 Sample Multiplier 1

			· · · · · · · · · · · · · · · · · · ·					
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate	<u> </u>		not detected	5000		ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate	20.20	326963	2.98 ug/L	900	0.23	ug/L	В
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine		·	not detected	50	1.45	ug/L	-
129-00-0	Pyrene			not detected	200		ug/L	
85-68 <del>-</del> 7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine		·	not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51		
117-84-0	Di-n-octylphthalate		<del></del>	not detected	100	0.82		
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37		<del></del>
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32		
50-32-8	Benzo[a]pyrene			not detected	20	0.31		<del></del>
193-39-5	Indeno[1,2,3-cd]pyrene	·	777.00	not detected	20	0.79		
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40		

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

#### Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name bn0934.d

Sample Name

3271.06

Operator

Skelton

Misc Info

MW33

Date Acquired

01/28/98 09:44

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 u	ıg/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ս	ıg/L	
62-53-3	Aniline			not detected	NLE	0.15 u	ıg/L	
108-95-2	Phenol			not detected	4000	0.47 u	ıg/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 u	ıg/L	
95-57-8	2-Chlorophenol			not detected	40	0.18 u	ıg/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 u	ıg/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 u	ıg/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 u	ıg/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 u	ıg/L	
	2-Methylphenol			not detected	NLE	0.14 u	$\neg$	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 u	g/L	
- -	4-Methylphenol		·	not detected	NLE	0.14 u	g/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 u		
67-72-1	Hexachloroethane			not detected	10	0.33 u	_	
98-95-3	Nitrobenzene			not detected	10	0.46 u		<u></u> .
78-59-1	Isophorone			not detected	100	0.35 u		
88-75-5	2-Nitrophenol			not detected	NLE	0.23 u	$\overline{}$	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 u		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 u		
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 u		
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 นรู		
91-20-3	Naphthalene			not detected	NLE	0.25 ug		
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug		
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug	-	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug		
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 սց		
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug		
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug	$\overline{}$	
	2,4,5-Trichlorophenol			not detected	700	0.31 ug		
91-58-7	2-Chioronaphthalene			not detected	NLE	0.32 ug	$\overline{}$	
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug	$\overline{}$	
131-11-3	Dimethylphthalate			not detected	7000	0.18 սց		
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug		
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug		
83-32-9	Acenaphthene			not detected	400	0.26 ug		
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug		
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug	_	
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug	_	

#### Semi-Volatile Analysis Report Page 2

Data File Name bn0934.d

Sample Name

3271.06

Operator

Skelton

Misc Info

MW33

Date Acquired

01/28/98 09:44

Sample Multiplier 1

121-14-2	2.4-Dinitrotoluene	not detected	10	0.26	υ~ <i>π</i>	· · · · · ·
84-66-2	Diethylphthalate	not detected	10		ug/L	
86-73-7	Fluorene		5000		ug/L	
7005-72-3		not detected	300		ug/L	
	4-Chlorophenyl-phenylether 4-Nitroaniline		NLE		ug/L	
100-01-6		not detected	NLE		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE		ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	20		ug/L	
103-33-3	Azobenzene	not detected	NLE		ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene	not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol	not detected	1	1.08	ug/L	
85-01-8	Phenanthrene	not detected	NLE	0.18	ug/L	
120-12-7	Anthracene	not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate	not detected	900	0.23	ug/L	
206-44-0	Fluoranthene	not detected	300	0.41	ug/L	
92-87-5	Benzidine	not detected	50	1.45		
129-00-0	Pyrene	not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate	not detected	100	0.47		
56-55-3	Benzo[a]anthracene	not detected	10	0.22		
91-94-1	3,3'-Dichlorobenzidine	not detected	60	0:46		
218-01-9	Chrysene	not detected	20	0,20		
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	0.51		
117-84-0	Di-n-octylphthalate	not detected	100	0.82		
205-99-2	Benzo[b]fluoranthene	not detected	10	0.37		• • •
207-08-9	Benzo[k]fluoranthene	not detected	2	0.32		
50-32-8	Benzo[a]pyrene	not detected	20	0.31		
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	0.79		<del> </del>
53-70-3	Dibenz[a,h]anthracene	not detected	20	0.28		
191-24-2	Benzofg,h,i]perylene	not detected	NLE	0.40	_	

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

#### Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name BN0935.D

Sample Name

3271.07

Operator

Skelton

Misc Info

Field Dup

Date Acquired

01/28/98 10:27

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug/L	
62-53-3	Aniline			not detected	NLE	0.15 ug/L	
108-95-2	Phenol			not detected	4000	0.47 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0:48 ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug/L	
·	2-Methylphenol			not detected	NLE	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/L	
	4-Methylphenol			not detected	NLE	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46 ug/L	
78-59-1	Isophorone			not detected	100	0.35 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug/L	-
59-50 <b>-</b> 7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/L	
	2,4,5-Trichlorophenol		, ,	not detected	700	0.31 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE_	0.26 ug/L	
83-32-9	Acenaphthene			not detected	400	0.26 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name BN0935.D

Sample Name

3271.07

Operator

Skelton

Misc Info

Field Dup

Date Acquired

01/28/98 10:27

Sample Multiplier 1

121-14-2	2,4-Dinitrotoluene	1	1	not detected	10	0.26	ug/L	1
84-66-2	Diethylphthalate	<del> </del>		not detected	5000		ug/L	
86-73-7	Fluorene			not detected	300		ug/L ug/L	·
7005-72-3	4-Chlorophenyl-phenylether	<del>                                     </del>	<u></u>	not detected	NLE		ug/L ug/L	<u></u>
100-01-6	4-Nitroaniline		<u>.                                    </u>	not detected	NLE		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE		ug/L ug/L	
86-30-6	n-Nitrosodiphenylamine	<b> </b>	<u></u> .	not detected	20		ug/L ug/L	
103-33-3	Azobenzene		<del></del>	not detected	NLE			
101-55-3	4-Bromophenyl-phenylether			not detected	NLE		ug/L ug/L	-
118-74-1	Hexachlorobenzene	<del> </del>		not detected				
87-86-5	Pentachlorophenol				10		ug/L	
85-01-8	Phenanthrene	-		not detected	1		ug/L	
120-12-7	Anthracene			not detected	NLE	1	ug/L	
84-74-2	Di-n-butylphthalate	20.21	693773		2000 900		ug/L ug/L	
206-44-0	Fluoranthene	20.21	053173	6.10 ug/L not detected	300			В
92-87-5	Benzidine	<del> </del>		not detected	50		ug/L	_
129-00-0	Pyrene	$\vdash$		not detected	200		ug/L ug/L	
85-68-7	Butylbenzylphthalate			not detected	100		ug/L ug/L	
56-55-3	Benzo[a]anthracene		· · · · · · · · · · · · · · · · · · ·	not detected	100		ug/L ug/L	-
91-94-1	3.3'-Dichlorobenzidine			not detected	60		ug/L ug/L	
218-01-9	Chrysene		<del></del>	not detected	20		ug/L ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30		ug/L ug/L	
117-84-0	Di-n-octylphthalate	<del>  </del>		not detected				
205-99-2	Benzolb]fluoranthene			not detected	100		ug/L ug/L	
207-08-9	Benzo[k]fluoranthene	<del>                                     </del>	····	not detected	10			
50-32-8	Benzo[a]pyrene	<del>                                     </del>		not detected	2		ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene				20		ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20		ug/L	<u> </u>
191-24-2	Benzo[g,h,i]perylene			not detected	20		ug/L	
171-24-2	Denvois, n'ilberaiene			not detected	NLE	0.40	ug/L	

#### **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

•			· ·		I	
Lab Name: FMETI	· •	Lab Coo	de 13461		SBL	(17
Project	Case No.: 3271	Locat	ion CW-2	SDC	3 No.:	
Matrix: (soil/water)	WATER	i	ab Sample	e ID: S	BLK17	
Sample wt/vol:	1000 (g/ml) ML		ab File ID	: В	N0910.D	
Level: (low/med)	LOW	. [	Date Recei	ved: 0	1/08/98	
% Moisture:	decanted: (Y/N) _	N E	Date Extra	cted: 01	1/09/98	<del></del>
Concentrated Extract	t Volume: 1000 (uL)	Γ	Date Analy	zed: 01	1/27/98	
Injection Volume: 1.	.0 (uL)		Dilution Fac	ctor: 1.	0	
GPC Cleanup: (Y/N)	NpH: <u>7</u>				-	
		CONCEN	ITRATION	UNITS	:	
Number TICs found:	4	(ug/L or ι	ıg/Kg)	UG/L		
CAS NUMBER	COMPOUND NAME		RT	EST.	CONC.	Q
1.	unknown hydrocarbon		4 QQ		26	1

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

	· ·				
Lab Name: FMET	L	Lab Code	13461	Field I	Blank
Project	Case No.: 3271	Location	CW-2 S	DG No.:	
Matrix: (soil/water)	WATER	Lab	Sample ID:	3271-2	
Sample wt/vol:	1000 (g/ml) ML	Lab	File ID:	BN0930.D	
Level: (low/med)	LOW	Dat	e Received:	01/08/98	<del>.</del>
% Moisture:	decanted: (Y/N)	N Dat	e Extracted:	01/09/98	<del></del>
Concentrated Extrac	t Volume: 1000 (uL)	Dat	e Analyzed:	01/28/98	
Injection Volume: 1	.0 (uL)	Dilu	tion Factor:	1.0	
GPC Cleanup: (Y/N)	NpH: <u>7</u>			7,5	
		CONCENT	RATION UNI	TS:	
Number TICs found:	4	(ug/L or ug/l	Kg) <u>UG</u> /	L	
CAS NUMBER	COMPOUND NAME		RT ES	ST. CONC.	Q
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-	methyl	4.99	24	JN
2 000204 02 0	0 0 0 d a d a a a a a a a d a d a d a d		~~ ~ 4	4 =	

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name: FMETI	<u>-                                      </u>	Lab Code 13461	MW 30
Project	Case No.: 3271	Location CW-2 S	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3271-3
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN0931.D
Level: (low/med)	LOW	Date Received:	01/08/98
% Moisture:	decanted: (Y/N)	N Date Extracted:	01/09/98
Concentrated Extrac	t Volume: <u>1000</u> (uL)	Date Analyzed:	01/28/98
Injection Volume: 1.	.0 (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N)	N pH: 7		

#### **CONCENTRATION UNITS:**

Number TICs found:	8	(ug/L or ug/Kg)	UG/L_

		T		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 019549-87-2	2,4-Dimethyl-1-heptene	4.91	10	JN
2.	unknown hydrocarbon	5.01	39	J
3.	unknown hydrocarbon	19.26	9	J
4. 000057-10-3	Hexadecanoic acid	20.15	9	JN
5. 000057-11-4	Octadecanoic acid	22.00	13	JN
6. 000301-02-0	9-Octadecenamide, (Z)-	23.74	16	JN
7. 004337-65-9	Hexanedioic acid, mono(2-ethylh	24.06	270	JN
8. 001120-07-6	Nonanamide	26.88	34	JN

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET **TENTATIVELY IDENTIFIED COMPOUNDS**

FIELD ID

16

390

32

JN

 $\overline{\mathsf{JN}}$ 

Lab Name: FMET	<u> </u>	Lab Code 13461	MW 31
Project	Case No.: 3271	Location CW-2 SI	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3271-4
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN0932.D
Level: (low/med)	LOW	Date Received:	01/08/98
% Moisture:	decanted: (Y/N) _	N Date Extracted:	01/09/98
Concentrated Extrac	t Volume: 1000 (uL)	Date Analyzed:	01/28/98
Injection Volume: 1	.0 (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N)	N pH: 7		
		CONCENTRATION UNIT	<b>"</b> C-

23.75

24.09

26.88

Number TICs found: 5		(ug/L or ug/Kg)	UG/L		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	unknown	5.01	50	J	
2	unknown	10.07	45		

Hexanedioic acid, bis(2-ethylhex

Number TICs found:

4. 000103-23-1

unknown

5. 001120-16-7 Dodecanamide

FORM I SV-TIC

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET **TENTATIVELY IDENTIFIED COMPOUNDS**

FIELD ID

Lab Name: FMET	L ·		Lab Code 13461	MW 32
Project	Ca	se No.: 3271	Location CW-2	SDG No.:
Matrix: (soil/water)	WATER	_	Lab Sample ID	3271-5
Sample wt/vol:	1000	(g/ml) ML	Lab File ID:	BN0933.D
Level: (low/med)	LOW	_	Date Received:	01/08/98
% Moisture:	dec	anted: (Y/N)	N Date Extracted	01/09/98
Concentrated Extra	t Volume:	1000 (uL)	Date Analyzed:	01/28/98
Injection Volume: 1	l.0 (uL)		Dilution Factor:	1.0
GPC Cleanup: (Y/N)	<u> N</u>	pH: <u>7</u>		
			~	•

#### **CONCENTRATION UNITS:**

23.75

24.06

26.89

14

JN

JN

190

31

Number TICs found: 5		(ug/L or ug/Kg)	UG/L		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	
1.	unknown	5.01	49	J	
2.	unknown hydrocarbon	19.27	10	J	

Hexanedioic acid, bis(2-ethylhex

Number TICs found:

4. 000103-23-1

5. 001120-07-6 | Nonanamide

unknown

FORM I SV-TIC

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name: FMETL	-	Lab Code 13461	MW 33
Project	Case No.: 3271	Location CW-2 S	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3271.06
Sample wt/vol:	1000 (g/ml) ML	_ Lab File ID:	BN0934.D
Level: (low/med)	LOW	Date Received:	01/08/98
% Moisture:	decanted: (Y/N)N	Date Extracted:	01/09/98
Concentrated Extract	Volume: 1000 (uL)	Date Analyzed:	01/28/98
Injection Volume: 1.	0 (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N)	<u>N</u> pH: <u>7</u>		•
		CONCENTRATION UNIT	rs:

Number TICs found:	5(ug/L	or ug/Kg)	UG/L			
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q.		
1.	unknown	4.99	33	J		
2.	unknown	19.26	10	J		
3.	unknown	23.74	16	J		
4. 000103-23-1	Hexanedioic acid, bis(2-ethylhex	24.07	330	JN		
5. 000301-02-0	9-Octadecenamide, (Z)-	26.88	33	JN		

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name: FME	TL	Lab Code 13461	Field Dup
Project	Case No.: 3271	Location <u>CW-2</u> SI	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3271.07
Sample wt/vol:	1000 (g/ml) ML	_ Lab File ID:	BN0935.D
Level: (low/med)	LOW	Date Received:	01/08/98
% Moisture:	decanted: (Y/N)t	Date Extracted:	01/09/98
Concentrated Extra	act Volume: 1000 (uL)	Date Analyzed:	01/28/98
Injection Volume:	1.0 (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/I	N) N pH: 7		•

#### **CONCENTRATION UNITS:**

Number TICs found:	5 (ug/L c	or ug/Kg)	UG/L	G/L		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q		
1. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.99	37	JN		
2.	unknown hydrocarbon	19.28	19	J		
3.	unknown	23.76	14	J		
4. 000103-23-1	Hexanedioic acid, bis(2-ethylhex	24.11	470	JN		
5. 001120-07-6	Nonanamide	26.89	29	JN		

Client:

U.S. Army

Lab. ID #:

Extraction Blank

DPW, SELFM-PW-EV

Date Rec'd:

-Bldg, 173

**Extraction Date:** 

1/12/98

Ft. Monmouth, NJ 07703

Analysis Date:

2/21/98

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	, ND
Arochior 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID # :

3271.02

DPW, SELFM-PW-EV

Date Rec'd:

1/8/98

Bldg. 173

**Extraction Date:** 

1/12/98

Ft. Monmouth, NJ 07703

Analysis Date:

2/21/98

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

CW-2

Analyst:

D. Wright

Field ID:

Field Blank

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochior 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID #:

3271.03

DPW, SELFM-PW-EV

Date Rec'd:

1/8/98

Bldg. 173

**Extraction Date:** 

1/12/98

Ft. Monmouth, NJ 07703

Analysis Date:

2/21/98

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

CW-2

D. Wright

Field ID:

MW-30

Analyst: Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID #:

3271.04

DPW, SELFM-PW-EV

Date Rec'd:

1/8/98

Bldg. 173

**Extraction Date:** 

1/12/98

Ft. Monmouth, NJ 07703

Analysis Date:

2/21/98

Analysis:

EPA Method 608

Location:

Matrix:

CW-2

Aqueous

Analyst:

D. Wright

Field ID:

MW-31

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1	-	NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID # :

3271.05

DPW, SELFM-PW-EV

Date Rec'd:

··Bldg. 173

**Extraction Date:** 

1/8/98 1/12/98

Ft. Monmouth, NJ 07703

Analysis Date:

2/21/98

Analysis:

EPA Method 608

Location:

Matrix:

CW-2

Aqueous

D. Wright

Field ID:

MW-32

Analyst: Ext. Meth:

Sep. Funnel

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	_	
		11
		"
		11

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)	
alpha-BHC	1		0.02	0.0023	ND	
beta-BHC	1		0.20	0.0026	ND	
gamma-BHC	1		0.20	0.0026	ND	
delta-BHC	1		NLE	0.0029	ND	
Heptachlor	. 1		0.40	0.0027	ND	
Aldrin	1		0.04	0.0028	ND	
Heptachlor Epoxide	1		0.20	0.0024	ND	
Endosulfan I	1		0.40	0.0024	ND	
4,4'-DDE	1		, 0.10	0.0034	ND	
Dieldrin	1		0.03	0.0019	ND	
Endrin	1		2.00	0.0030	ND	
Endrin Ketone	1		NLE	0.0100	ND	
Endosulfan II	1		0.40	0.0027	ND	
4,4'-DDD	1		0.10	0.0066	ND	
4,4'-DDT	1		0.10	0.0015	ND	
Endosulfan-Sulfate	1		0.40	0.0010	ND	
Methoxychlor	. 1		NLE	0.0100	ND	
Alpha-chlordane	1		0.50	0.0140	ND	
Gamma-chlordane	1		0.50	0.0140	ND	
Toxaphene	1		3.00	0.0182	ND	
Arochlor 1016	1		0.50	0.0640	ND	
Arochlor 1221	1		0.50	0.0500	ND	
Arochlor 1232	1		0.50	0.0500	ND	
Arochlor 1242	1		0.50	0.0280	ND	
Arochlor 1248	1		0.50	0.0500	ND	
Arochlor 1254	1		0.50	0.0500	ND	
Arochlor 1260	1		0.50	0.0680	ND	
ND = Not Detected	Column-Primary: Rtx-5 30m/32mmID/25um					

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID#:

3271.06

DPW, SELFM-PW-EV

Date Rec'd:

1/8/98

-Bldg. 173

**Extraction Date:** 

1/12/98

Ft. Monmouth, NJ 07703

Analysis Date:

2/21/98

Analysis:

EPA Method 608

Location : ' CW

Matrix:

Aqueous

-

Analyst:

D. Wright

Field ID:

MW-33

Ext. Meth:

Sep. Funnel

Ext. Match: Sep. Funnel				
Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
1		0.02	0.0023	ND
1		0.20	0.0026	ND
1		0.20	0.0026	ND
1		NLE	0.0029	ND
1		0.40	0.0027	ND
1		0.04	0.0028	ND
1		0.20	0.0024	ND
1		0.40	0.0024	ND
1		0.10	0.0034	ND
1		. 0.03	0.0019	ND
1		2.00	0.0030	ND
1		NLE	0.0100	ND
1		0.40	0.0027	ND
1		0.10	0.0066	ND
1		0.10	0.0015	ND
1		0.40	0.0010	ND
1		NLE	0.0100	ND
1		0.50	0.0140	ND
1		0.50	0.0140	ND
1		3.00	0.0182	ND
. 1		0.50	0.0640	ND
1		<b>9.50</b>	0.0500	ND
1		0.50	0.0500	ND
1		0.50	0.0280	ND
1		0.50	0.0500	ND
1		0.50	0.0500	ND
1		0.50	0.0680	ND
	Dilution   Factor   1	Dilution   Retention   Time	Dilution Factor         Retention Time         GW Criteria           1         0.02           1         0.20           1         0.20           1         0.40           1         0.40           1         0.04           1         0.40           1         0.10           1         0.03           1         0.40           1         0.40           1         0.10           1         0.40           1         0.40           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50           1         0.50	Dilution Factor         Retention Time         GW Criteria         MDL (ug/L)           1         0.02         0.0023           1         0.20         0.0026           1         0.20         0.0026           1         0.20         0.0026           1         0.40         0.0029           1         0.40         0.0027           1         0.04         0.0028           1         0.40         0.0024           1         0.40         0.0024           1         0.10         0.0034           1         0.03         0.0019           1         0.03         0.0019           1         0.40         0.0027           1         0.40         0.0027           1         0.40         0.0027           1         0.10         0.0066           1         0.40         0.0015           1         0.40         0.0015           1         0.50         0.0140           1         0.50         0.0140           1         0.50         0.0500           1         0.50         0.0500           1         0.50

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

#### Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client:

U.S. Army

Lab. ID #:

3271.07

DPW, SELFM-PW-EV

Date Rec'd:

1/8/98

.Bldg. 173

**Extraction Date:** 

1/12/98

Ft. Monmouth, NJ 07703

**Analysis Date:** 

2/21/98

Analysis:

EPA Method 608

Location:

Matrix:

CW-2

Aqueous

Analyst:

D. Wright Sep. Funnel Field ID:

Field DUP

Ext.	Meth:	Sep. F	unne
		-	7

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochior 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

NLE = No Limit Established

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: Method Blank

Sample Received: NA

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: NA

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	ND	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	ND	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	ND	NLE	20.0
Chromium	01/29/98	ND	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	ND .	1000	6.0
Iron	01/29/98	ND	300	10.0
Lead	01/29/98	ND	10	4.0
Magnesium	01/29/98	ND	NLE	20.0
Manganese	01/29/98	ND	50	1.0
Mercury	01/14/98	ND	2	0.2
Nickel	01/29/98	ND	100	1.0
Potassium	01/29/98	ND	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	ND	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	ND	5000	2.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3271.02

Sample Received: 01/08/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	114.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	3.8	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	1040.0	NLE	20.0
Chromium	01/29/98	1.5	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	12.0	1000	6.0
Iron	01/29/98	62.0	300	10.0
Lead	01/29/98	ND	10	4.0
Magnesium	01/29/98	190.0	NLE	20.0
Manganese	01/29/98	1.8	50	1.0
Mercury	01/14/98	ND	2	0.2
Nickel	01/29/98	1.9	100	1.0
Potassium	01/29/98	ND	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	890.0	50000	20.0
Thailium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	67.0	5000	2.0

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3271.03

Sample Received: 01/08/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-30

### TAL-METALS RESULTS SUMMARY (ug/L)

				•
Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	204.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	30.9	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	41070.0	NLE	20.0
Chromium	01/29/98	5.2	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	21.0	1000	6.0
Iron	01/29/98	2795.0	300	10.0
Lead	01/29/98	4.0	10	4.0
Magnesium	01/29/98	3390.0	NLE	20.0
Manganese	01/29/98	5.0	50	1.0
Mercury	01/14/98	ND	2	0.2
Nickel	01/29/98	2.8	100	1.0
Potassium	01/29/98	7240.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	5450.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	76.0	5000	2.0

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3271.04

Sample Received: 01/08/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-31

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	129.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	204.7	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	44460.0	NLE	20.0
Chromium	01/29/98	1.4	100	1.0
Cobalt	01/29/98	4.0	NLE	1.0
Copper	01/29/98	36.0	1000	6.0
Iron	01/29/98	68450.0	300	10.0
Lead	01/29/98	25.0	10	4.0
Magnesium	01/29/98	5250.0	NLE	20.0
Manganese	01/29/98	240.0	50	1.0
Mercury	01/14/98	ND	2	0.2
Nickel	01/29/98	49.8	100	1.0
Potassium	01/29/98	9800.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	15.0	20	6.0
Sodium	01/29/98	10310.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	996.0	5000	2.0

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3271.05

Sample Received: 01/08/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-32

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	163.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	22.8	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	62370.0	NLE	20.0
Chromium	01/29/98	4.9	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	38.0	1000	6.0
Iron	01/29/98	1484.0	300	10.0
Lead	01/29/98	ND	10	4.0
Magnesium	01/29/98	6140.0	NLE	20.0
Manganese	01/29/98	3.7	50	1.0
Mercury	01/14/98	ND	2	0.2
Nickel	01/29/98	3.4	100	1.0
Potassium	01/29/98	3590.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	15990.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	84.0	5000	2.0

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3271.06

Sample Received: 01/08/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW 33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	217.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	6.0	8	4.0
Barium	01/29/98	310.9	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	72300.0	NLE	20.0
Chromium	01/29/98	3.0	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Соррег	01/29/98	10.0	1000	6.0
Iron	01/29/98	104700.0	300	10.0
Lead	01/29/98	4.0	10	4.0
Magnesium	01/29/98	7660.0	NLE	20.0
Manganese	01/29/98	341.7	50	1.0
Mercury	01/14/98	ND	2	0.2
Nickel	01/29/98	3.2	100	1.0
Potassium	01/29/98	13430.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	11780.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	69.0	5000	2.0

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3271.07

Sample Received: 01/08/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Dup.

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	01/29/98	132.0	200	20.0
Antimony	01/29/98	ND	20	4.0
Arsenic	01/29/98	ND	8	4.0
Barium	01/29/98	190.2	2000	1.0
Beryllium	01/29/98	ND	20	1.0
Cadmium	01/29/98	ND	4	1.0
Calcium	01/29/98	42040.0	NLE	20.0
Chromium	01/29/98	1.0	100	1.0
Cobalt	01/29/98	ND	NLE	1.0
Copper	01/29/98	16.0	1000	6.0
Iron	01/29/98	65180.0	300	10.0
Lead	01/29/98	7.0	10	4.0
Magnesium	01/29/98	4980.0	NLE	20.0
Manganese	01/29/98	223.8	50	1.0
Mercury	01/14/98	ND	2	0.2
Nickel	01/29/98	1.5	100	1.0
Potassium	01/29/98	9220.0	NLE	20.0
Selenium	01/29/98	ND	50	6.0
Silver	01/29/98	ND	20	6.0
Sodium	01/29/98	9700.0	50000	20.0
Thallium	01/29/98	ND	10	6.0
Vanadium	01/29/98	ND	NLE	2.0
Zinc	01/29/98	133.0	5000	2.0

# FORT MONMOUTH ENVIRONMENTAL

# **TESTING LABORATORY**

**DIRECTORATE OF PUBLIC WORKS** 

PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



## ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/ Long Term Monitoring

### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
3462.03	MW-30	29-32594	04/07/98
3462.04	MW-31	29-32595	04/07/98
3462.05	MW-32	29-32596	04/07/98
3462.06	MW-33	29-32597	04/07/98

NJDEP Laboratory Certification # 13461

Report Date: 31 July, 1998

Daniel Wright

Date:

Laboratory Director

# METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
METALS	
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B .
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

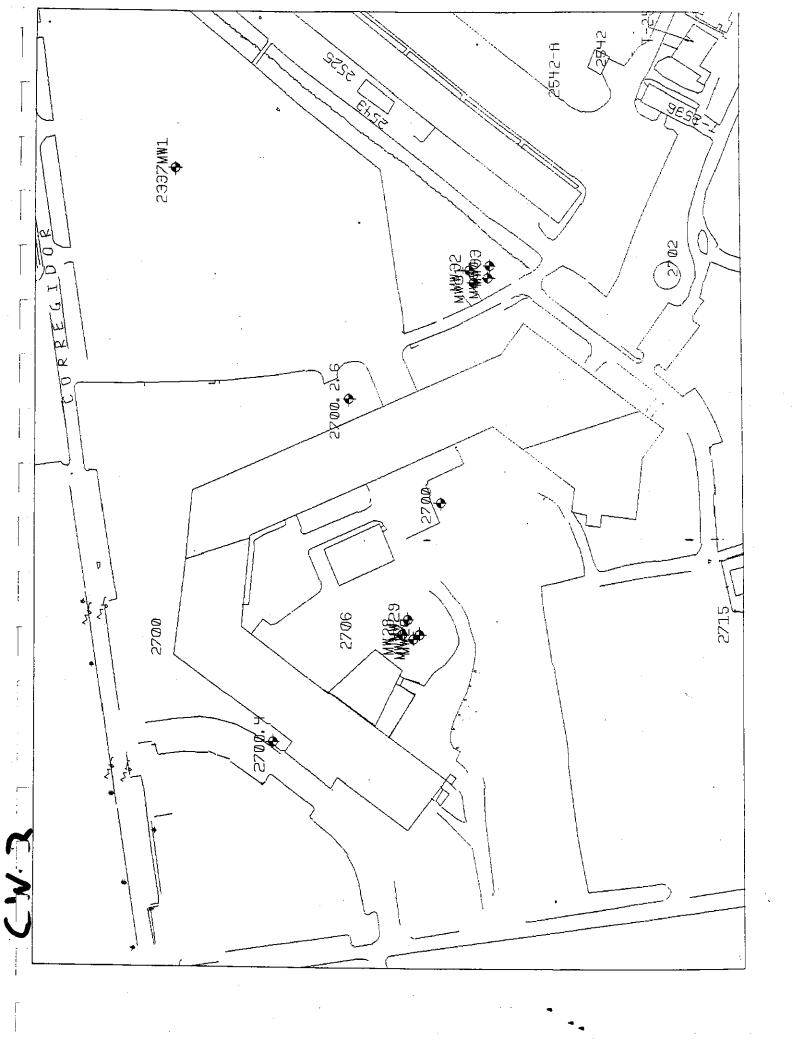


# Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

**Chain of Custody Record** 

Custome	er: J. 1	Allow	Project No:			_			Ana	lysis I	arame	ters		i	Comments:
Phone #:	X26		Location:	Blda	270	O	0	¥		-2⁄2					O HNU ALL
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Samplers 1	Name / Cor	npany: MANK h	AUNA		Sample	#	TOL VONTIS	TAL Metak	1 7	Part Con					
Lab Sam	ple I.D.	Sample Location	Date	Time	Туре	bottles	<u>)</u>	¥ <u>1</u>	ďά	건					Remarks / Preservation Method
3462	. ]01	Trip Blank	4.7.98		A Ø	2	X			,			-		
	,02	Field Blank		1050		5	X	X	X	X					VOA PRES. = HCL
	,03	MW30(42932594)		1250		5	5	X	X	X					TAL METALS PRES, = HNO3
<u> </u>		MW31 (#393593)		1310		5	X	K	X	X					BNA / PEST PRES = <40C
	105		1325		5	X	K	X	K						
	.06	MW33(#2932597)		1342		5	X	×	X	X					
	of Held Sup				4	5	X	X	X	X					
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Relinquished by (signature):  Date/Time:  Received 4-7-97 1500				signature):	(h)	Reline	quished	by (sig	gnature)	):	Date/1	ime:	Receiv	ved by	(signature):
Relinquished by (signature): Date/Time: Rece				signature):		Relin	quished	by (sig	gnature	<b>)</b> :	Date/I	ime:	Receiv	ved by	(signature):
Report Type:		en / non-certifi	ed	· · · · · · · · · · · · · · · · · · ·		Rema	rks:	nw-	3/	- ve	24	Tu	UB.	io w/RUST consisce	
Turnaround t	time: (_)Stand	dard 4 wks, (_)Rush Days	, (_)ASAP Ve	erbalH	rs.	<del> </del>	<u> </u>	<del> :</del>		·	PAR	Tico	ES_		•



SITE: CW-2

MW#\_30 NJDEP ID# 2932594 NJDEP CERT# 13461 SAMPLING CONTRACTOR TVS SAMPLER MARK LAURA DATE: 04/07/98 WEATHER: SUNNY 40'S ELEVATION OF CASING SURVEY MARK **DTW**: 6.56 DEPTH OF WELL: 17.90 HEIGHT OF WATER 11.34 11.34  $\times$  0.65  $\times$  3 = 22 GAL OF H2O TO BE EVACUATED 22 GAL PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC PURGE RATE 0.3 Hnu READING 0 **PURGE START TIME: 9:35** pH: 7.05 TEMP 14.8 DEG °C DISSOLVED O2 3.67 PPM SPECIFIC CONDUCTIVITY 111 us/cm PURGE END TIME: 11:28 DEG °C pH: 7.14 **TEMP** 14.5 DISSOLVED O2 1.79 PPM SPECIFIC CONDUCTIVITY 170 us/cm DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 9.57 sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer TOTAL VOLUME PURGED: 22 GAL pH: 8.30 DEG °C TEMP 14.5 DISSOLVED O2 2.99 PPM SPECIFIC CONDUCTIVITY 130 us/cm COMMENTS:

SITE: CW-2 MW#\_31 NJDEP ID# 2932595 NJDEP CERT# 13461 SAMPLING CONTRACTOR TVS SAMPLER MARK LAURA

DATE: 04/07/98

WEATHER: SUNNY 40'S

ELEVATION OF CASING SURVEY MARK

DTW: 6.35

DEPTH OF WELL: 16.80 HEIGHT OF WATER 10.45

 $10.45 \times 0.65 \times 3 = 20.5$ 

GAL OF H2O TO BE EVACUATED 20.5 GAL

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC

PURGE RATE 0.2 GPM

Hnu READING 0

**PURGE START TIME: 9:42** 

pH: 6.89 TEMP 14.4 DEG °C

DISSOLVED 02 1.47 PPM SPECIFIC CONDUCTIVITY 130 us/cm

**PURGE END TIME: 11:33** 

pH: 9.33 TEMP 13.8 DEG °C

DISSOLVED 02 1.07 PPM SPECIFIC CONDUCTIVITY 140 us/cm

DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 6.95 FT

sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer

TOTAL VOLUME PURGED: 20.5 GAL

pH: 6.84 TEMP 13.1 DEG °C

DISSOLVED O2 2.94 PPM SPECIFIC CONDUCTIVITY 120 us/cm

COMMENTS: Well very turbid with rust colored particles.

BLDG: CW-2 MW# 32 NJDEP ID# 2932596 NJDEP CERT# 13461 SAMPLING CONTRACTOR TVS SAMPLER MARK LAURA DATE: 04/07/98 **WEATHER: SUNNY 40'S** ELEVATION OF CASING SURVEY MARK DTW: 6.81 DEPTH OF WELL: 16.80 **HEIGHT OF WATER 9.99**  $9.99 \times 0.65 \times 3 = 19.50$ GAL OF H2O TO BE EVACUATED 19.50 GAL PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC PURGE RATE 0.2 **GPM** Hnu READING 0 PURGE START TIME: 9:50 pH: 8.06 TEMP 13.4 DEG °C DISSOLVED O2 1.82 PPM SPECIFIC CONDUCTIVITY 140 us/cm **PURGE END TIME: 11:26** pH: 9.65 TEMP 13.5 DEG °C DISSOLVED O2 1.56 PPM SPECIFIC CONDUCTIVITY 180 us/cm DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 7.7 FT sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer TOTAL VOLUME PURGED: 19.50 GAL pH: 6.69 TEMP DEG °C 13.3 DISSOLVED 02 2.56 PPM SPECIFIC CONDUCTIVITY 120 us/cm COMMENTS:

SITE: CW-2
MW# <u>33</u>
NJDEP ID# 2932597
NJDEP CERT# <u>13461</u>
SAMPLING CONTRACTOR TVS
SAMPLER MARK LAURA
DATE: 04/07/98 WEATHER: SUNNY 40'S
ELEVATION OF CASING SURVEY MARK
DTW: 9.5
DEPTH OF WELL: 16.00
HEIGHT OF WATER 6.50
$6.50 \times 0.65 \times _{\underline{}} 3 = 12.67$
GAL OF H2O TO BE EVACUATED 12.67 GAL
PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM) PERISTALIC
PURGE RATE 0.3 GPM
Hnu READING 0
PURGE START TIME: 9:54
pH: 6.57 TEMP 14.5 DEG °C
DISSOLVED O2 2.25 PPM SPECIFIC CONDUCTIVITY 160 us/cm
PURGE END TIME: 11:41
pH: 7.08 TEMP 15.1 DEG °C
DISSOLVED 02 2.33 PPM SPECIFIC CONDUCTIVITY 170 us/cm
DEPTH TO H2O AFTER PURGING AND BEFORE SAMPLING 9.11 FT
sampling method: dedicated (law NJDEP FSPM 1992) teflon ® bailer
TOTAL VOLUME PURGED: 12.67 GAL
pH: 6.91 TEMP 16.4 DEG °C
DISSOLVED O2 2.26 PPM SPECIFIC CONDUCTIVITY 120 us/cm
COMMENTS:

# US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEPE # 13461

### **Definition of Qualifiers**

MDL: Method Detection Limit

J : Compound identified below detection limit

**B**: Compound in both sample and blank

D: Results from dilution of sample

U: Compound searched for but not detected

Data File Nam vb00106.d

Sample Name

VBLK01

Operator

Skelton

Field ID

VBLK01

Date Acquired 14 Apr 1998 1:33 pm

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifier
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether		1	not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride		[	not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	-
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane		. 1	not detected	70	0.83 ug/L	·
108-05-4	Vinyl Acetate		· · · · · · · · · · · · · · · · · · ·	not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chioroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene		<u> </u>	not detected	1	0.94 ug/L	·
78-87-5	1,2-Dichloropropane		<u> </u>	not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	i	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene		· ·	not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene	i		not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene	1		not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	4
1330-20-7	m+p-Xylenes			not detected	nie	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	·
75-25-2	Bromoform	···		not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	
			Oualifiers	not devoted	000	and the state	

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam vb00113.d

Operator

Skelton

Date Acquired 14 Apr 1998 7:34 pm

Sample Name

Field ID

3462.01 Trip Blank

Sample Multiplier

107028   Acrolein	CAS#	Compound Name	R.T.	Response	Result	GW Criteri	MDL	Qualifiers
1634044   Methyl-tert-Butyl ether   not detected   nie   12.50 ug/L	107028	Acrolein			not detected	nle	6.25 ug/L	
1634044   Methyl-tert-Buyl ether	107131	Acrylonitrile			not detected	nle	6.25 ug/L	·
108203   Di-isopropyl ether	75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
Dishlorodifluoromethane	1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
T4-87-3   Chloromethane	108203		<u> </u>		not detected	nle	1.25 ug/L	
T5-01-4			ļ .		not detected		3.63 ug/L	
T4-83-9   Bromomethane					not detected	30	0.79 ug/L	
T5-00-3   Chloroethane   not detected   nle   2.20 ug/L			i		not detected	5	2.61 ug/L	
75-69-4   Trichloroffluoromethane   not detected   nle   1.31 ug/L     75-35-4   1,1-Dichloromethane   not detected   2 0.74 ug/L     75-15-0   Carbon Disulfide   not detected   nle   0.54 ug/L     75-19-2   Methylene Chloride   12.82   43849   2.98 ug/L   2   1.66 ug/L     75-09-2   Methylene Chloride   12.82   43849   2.98 ug/L   2   1.66 ug/L     75-35-3   1,1-Dichloromethane   not detected   nle   0.50 ug/L     75-35-3   1,1-Dichloromethane   not detected   nle   2.07 ug/L     78-93-3   2-Butanone   not detected   nle   2.07 ug/L     78-93-3   2-Butanone   not detected   nle   2.07 ug/L     78-93-3   2-Butanone   not detected   nle   2.07 ug/L     75-55-6   Chloroform   not detected   0 0.65 ug/L     75-55-6   Chloroform   not detected   0 0.65 ug/L     75-55-6   Carbon Tetrachloride   not detected   0 0.81 ug/L     75-55-6   Trichloromethane   not detected   1 0.51 ug/L     71-43-2   Benzene   not detected   1 0.51 ug/L     107-06-2   1,2-Dichloromethane   not detected   1 0.51 ug/L     79-01-6   Trichloromethane   not detected   1 0.78 ug/L     78-87-5   1,2-Dichloromethane   not detected   1 0.78 ug/L     78-87-5   1,2-Dichloromethane   not detected   1 0.78 ug/L     78-87-5   1,2-Dichloromethane   not detected   1 0.78 ug/L     79-01-6   S-Chloromethane   not detected   1 0.78 ug/L     79-01-6   Trichloromethane   not detected   1 0.78 ug/L     79-01-6   Trichloromethane   not detected   1 0.79 ug/L     10061-01-5   cis-1,3-Dichloropropene   not detected   nle   1.05 ug/L     108-88-3   Toluene   not detected   nle   1.05 ug/L     108-88-3   Toluene   not detected   nle   1.05 ug/L     108-89-7   Chloromethane   not detected   nle   1.20 ug/L     108-90-7   Chloromethane   not detected   nle   1.2					not detected	10	1.45 ug/L	
75-35-4   1,1-Dichloroethene   not detected   2   0.74 ug/L		**************************************			not detected	nle	2.20 ug/L	
Fig. 1.50	75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-15-0	75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
75-09-2   Methylene Chloride   12.82   43849   2.98 ug/L   2   1.66 ug/L	67-64-1	Acetone			not detected	700	1.57 ug/L	
156-60-5	75-15-0				not detected	nle	0.54 ug/L	
175-35-3   1,1-Dichloroethane   not detected   70   0.83 ug/L     108-05-4   Vinyl Acetate   not detected   nle   2.07 ug/L     78-93-3   2-Butanone   not detected   300   2.06 ug/L     0.65 ug/L   0.65 ug/L     0.67-66-3   Chloroform   not detected   0   0.65 ug/L     0.75-55-6   1,1,1-Trichloroethane   not detected   30   0.81 ug/L     175-55-6   Carbon Tetrachloride   not detected   2   1.20 ug/L     107-06-2   1,2-Dichloroethane   not detected   2   1.20 ug/L     107-06-2   1,2-Dichloroethane   not detected   1   0.51 ug/L     107-06-2   1,2-Dichloroethane   not detected   1   0.94 ug/L     178-87-5   1,2-Dichloropropane   not detected   1   0.79 ug/L     107-78-8   2-Chloroethyl vinyl ether   not detected   1   0.77 ug/L     110-75-8   2-Chloroethyl vinyl ether   not detected   nle   1.05 ug/L     108-88-3   Tolluene   not detected   nle   0.60 ug/L     108-10-1   4-Methyl-2-Pentanone   not detected   nlo   0.60 ug/L     108-10-1   4-Methyl-2-Pentanone   not detected   nlo   0.73 ug/L     10061-02-6   trans-1,3-Dichloropropene   not detected   nle   1.33 ug/L     107-18-4   Tetrachloroethane   not detected   nle   1.43 ug/L     127-18-4   Tetrachloroethene   not detected   1   0.92 ug/L     127-18-4   Tetrachloroethene   not detected   1   0.92 ug/L     126-48-1   Dibromochloromethane   not detected   1   0.92 ug/L     126-48-1   Dibromochloromethane   not detected   nle   1.12 ug/L     126-48-1   Dibromochloromethane   not detected   nle   1.12 ug/L     1330-20-7   m+p-Xylenes   not detected   nle   1.92 ug/L     1330-20-7   m-y-Xylene   not detected   nle   1.92 ug/L     1330-20-7   nt-y-Xylene   not detected   nle   1.92 ug/L     1330-20-7	75-09-2	Methylene Chloride	12.82	43849	2.98 ug/L	2	1.66 ug/L	
108-05-4   Vinyl Acetate	156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
108-05-4   Vinyl Acetate   not detected   nle   2.07 ug/L   78-93-3   2-Butanone   not detected   300   2.06 ug/L	75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
78-93-3   2-Butanone   not detected   300   2.06 ug/L	108-05-4	Vinyl Acetate			not detected	nle		
cis-1,2-Dichloroethene   not detected   10   0.65 ug/L	78-93-3	2-Butanone			not detected	300		
67-66-3   Chloroform   not detected   6   0.43 ug/L     75-55-6   1,1,1-Trichloroethane   not detected   30   0.81 ug/L     56-23-5   Carbon Tetrachloride   not detected   2   1.20 ug/L     71-43-2   Benzene   not detected   1   0.51 ug/L     107-06-2   1,2-Dichloroethane   not detected   2   1.27 ug/L     79-01-6   Trichloroethene   not detected   1   0.94 ug/L     78-87-5   1,2-Dichloropropane   not detected   1   0.78 ug/L     75-27-4   Bromodichloromethane   not detected   1   0.78 ug/L     110-75-8   2-Chloroethyl vinyl ether   not detected   nle   1.05 ug/L     10061-01-5   cis-1,3-Dichloropropene   not detected   nle   0.60 ug/L     108-10-1   4-Methyl-2-Pentanone   not detected   400   1.33 ug/L     108-88-3   Toluene   not detected   1000   0.73 ug/L     10061-02-6   trans-1,3-Dichloropropene   not detected   1.43 ug/L     79-00-5   1,1,2-Trichloroethane   not detected   3   1.49 ug/L     127-18-4   Tetrachloroethene   not detected   1   0.92 ug/L     591-78-6   2-Hexanone   not detected   1   0.92 ug/L     108-90-7   Chlorobenzene   not detected   1   1.36 ug/L     109-90-7   Chlorobenzene   not detected   1   1.36 ug/L     1330-20-7   m+p-Xylenes   not detected   nle   1.12 ug/L     1330-20-7   m+p-Xylenes   not detected   1   1.92 ug/L     1330-20-7   m+p-Xylenes   not detected   1   1.59 ug/L     1330-20-7   nt-p-Xylenes   not detected   1.59 ug/L     1330-20-7   nt-p-Xyle		cis-1,2-Dichloroethene			not detected	10		
75-55-6	67-66-3	Chloroform			not detected	6		
S6-23-5   Carbon Tetrachloride	75-55-6	1,1,1-Trichloroethane			not detected	30	Ī	
71-43-2   Benzene   not detected   1   0.51 ug/L	56-23-5	Carbon Tetrachloride			not detected	2		
107-06-2   1,2-Dichloroethane   not detected   2   1,27 ug/L	71-43-2	Benzene			not detected	1		
78-87-5         1,2-Dichloropropane         not detected         1         0.78 ug/L           75-27-4         Bromodichloromethane         not detected         1         0.77 ug/L           110-75-8         2-Chloroethyl vinyl ether         not detected         nle         1.05 ug/L           10061-01-5         cis-1,3-Dichloropropene         not detected         nle         0.60 ug/L           108-10-1         4-Methyl-2-Pentanone         not detected         400         1.33 ug/L           108-88-3         Toluene         not detected         1000         0.73 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         nle         1.43 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         1.49 ug/L           127-18-4         Tetrachloroethane         not detected         1         0.92 ug/L           591-78-6         2-Hexanone         not detected         1         0.92 ug/L           591-78-6         2-Hexanone         not detected         10         1.36 ug/L           108-90-7         Chlorobenzene         not detected         10         1.36 ug/L           108-90-7         Chlorobenzene         not detected         4         0.66 ug/L	107-06-2	1,2-Dichloroethane			not detected	2		
78-87-5         1,2-Dichloropropane         not detected         1         0.78 ug/L           75-27-4         Bromodichloromethane         not detected         1         0.77 ug/L           110-75-8         2-Chloroethyl vinyl ether         not detected         nle         1.05 ug/L           10061-01-5         cis-1,3-Dichloropropene         not detected         400         1.33 ug/L           108-10-1         4-Methyl-2-Pentanone         not detected         1000         0.73 ug/L           108-88-3         Toluene         not detected         1000         0.73 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         nle         1.43 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         1.49 ug/L           127-18-4         Tetrachloroethane         not detected         1         0.92 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.92 ug/L           126-48-1         Dibromochloromethane         not detected         1         1.36 ug/L           108-90-7         Chlorobenzene         not detected         1         1.36 ug/L           100-41-4         Ethylbenzene         not detected         ne         2.53 ug/L	79-01-6	Trichloroethene			not detected	1	0.94 ug/L	-
75-27-4         Bromodichloromethane         not detected         1         0.77 ug/L           110-75-8         2-Chloroethyl vinyl ether         not detected         nle         1.05 ug/L           10061-01-5         cis-1,3-Dichloropropene         not detected         nle         0.60 ug/L           108-10-1         4-Methyl-2-Pentanone         not detected         400         1.33 ug/L           108-88-3         Toluene         not detected         1000         0.73 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         nle         1.43 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         1.49 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.92 ug/L           591-78-6         2-Hexanone         not detected         1         1.12 ug/L           112-48-1         Dibromochloromethane         not detected         10         1.36 ug/L           108-90-7         Chlorobenzene         not detected         4         0.66 ug/L           100-41-4         Ethylbenzene         not detected         ne         2.53 ug/L           1330-20-7         m+p-Xylenes         not detected         ne         2.53 ug/L </td <td>78-87-5</td> <td>1,2-Dichloropropane</td> <td></td> <td></td> <td>not detected</td> <td>i</td> <td></td> <td></td>	78-87-5	1,2-Dichloropropane			not detected	i		
110-75-8         2-Chloroethyl vinyl ether         not detected         nle         1.05 ug/L           10061-01-5         cis-1,3-Dichloropropene         not detected         nle         0.60 ug/L           108-10-1         4-Methyl-2-Pentanone         not detected         400         1.33 ug/L           108-88-3         Toluene         not detected         1000         0.73 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         nle         1.43 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         1.49 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.92 ug/L           591-78-6         2-Hexanone         not detected         nle         1.12 ug/L           126-48-1         Dibromochloromethane         not detected         10         1.36 ug/L           108-90-7         Chlorobenzene         not detected         4         0.66 ug/L           100-41-4         Ethylbenzene         not detected         not detected         nle         2.53 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.92 ug/L           100-42-5         Styrene         not detected         100         <	75-27-4	Bromodichloromethane			not detected	1		
10061-01-5         cis-1,3-Dichloropropene         not detected         nle         0.60 ug/L           108-10-1         4-Methyl-2-Pentanone         not detected         400         1.33 ug/L           108-88-3         Toluene         not detected         1000         0.73 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         nle         1.43 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         1.49 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.92 ug/L           591-78-6         2-Hexanone         not detected         nle         1.12 ug/L           126-48-1         Dibromochloromethane         not detected         10         1.36 ug/L           108-90-7         Chlorobenzene         not detected         4         0.66 ug/L           100-41-4         Ethylbenzene         not detected         700         1.14 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         2.53 ug/L           1330-20-7         o-Xylene         not detected         nle         1.92 ug/L           100-42-5         Styrene         not detected         4         1.68 ug/L <td< td=""><td>110-75-8</td><td>2-Chloroethyl vinyl ether</td><td></td><td></td><td>not detected</td><td>nle</td><td></td><td></td></td<>	110-75-8	2-Chloroethyl vinyl ether			not detected	nle		
108-10-1         4-Methyl-2-Pentanone         not detected         400         1.33 ug/L           108-88-3         Toluene         not detected         1000         0.73 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         nle         1.43 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         1.49 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.92 ug/L           591-78-6         2-Hexanone         not detected         nle         1.12 ug/L           126-48-1         Dibromochloromethane         not detected         10         1.36 ug/L           108-90-7         Chlorobenzene         not detected         4         0.66 ug/L           100-41-4         Ethylbenzene         not detected         700         1.14 ug/L           1330-20-7         m-p-Xylenes         not detected         nle         2.53 ug/L           1330-20-7         o-Xylene         not detected         10         1.57 ug/L           100-42-5         Styrene         not detected         1         1.92 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541	10061-01-5	cis-1,3-Dichloropropene			not detected	nle		
108-88-3   Toluene   not detected   1000   0.73 ug/L     10061-02-6   trans-1,3-Dichloropropene   not detected   nle   1.43 ug/L     79-00-5   1,1,2-Trichloroethane   not detected   3   1.49 ug/L     127-18-4   Tetrachloroethene   not detected   1   0.92 ug/L     591-78-6   2-Hexanone   not detected   nle   1.12 ug/L     126-48-1   Dibromochloromethane   not detected   10   1.36 ug/L     108-90-7   Chlorobenzene   not detected   4   0.66 ug/L     100-41-4   Ethylbenzene   not detected   700   1.14 ug/L     1330-20-7   m+p-Xylenes   not detected   nle   2.53 ug/L     1330-20-7   o-Xylene   not detected   nle   1.92 ug/L     100-42-5   Styrene   not detected   100   1.57 ug/L     75-25-2   Bromoform   not detected   4   1.68 ug/L     79-34-5   1,1,2,2-Tetrachloroethane   not detected   2   1.71 ug/L     541-73-1   1,3-Dichlorobenzene   not detected   74   3.08 ug/L	108-10-1	4-Methyl-2-Pentanone			not detected	400		
10061-02-6         trans-1,3-Dichloropropene         not detected         nle         1.43 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         1.49 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.92 ug/L           591-78-6         2-Hexanone         not detected         nle         1.12 ug/L           126-48-1         Dibromochloromethane         not detected         10         1.36 ug/L           108-90-7         Chlorobenzene         not detected         4         0.66 ug/L           100-41-4         Ethylbenzene         not detected         nle         2.53 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         2.53 ug/L           100-42-5         Styrene         not detected         nle         1.92 ug/L           100-42-5         Styrene         not detected         100         1.57 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         2.51 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         74         3.08 ug/L	108-88-3	Toluene			not detected	1000		· · · · · · · · ·
79-00-5         1,1,2-Trichloroethane         not detected         3         1.49 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.92 ug/L           591-78-6         2-Hexanone         not detected         nle         1.12 ug/L           126-48-1         Dibromochloromethane         not detected         10         1.36 ug/L           108-90-7         Chlorobenzene         not detected         4         0.66 ug/L           100-41-4         Ethylbenzene         not detected         nle         2.53 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         2.53 ug/L           100-42-5         Styrene         not detected         100         1.57 ug/L           75-25-2         Bromoform         not detected         4         1.68 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         74         3.08 ug/L	10061-02-6	trans-1,3-Dichloropropene			not detected	nle		
127-18-4         Tetrachloroethene         not detected         1         0.92 ug/L           591-78-6         2-Hexanone         not detected         nle         1.12 ug/L           126-48-1         Dibromochloromethane         not detected         10         1.36 ug/L           108-90-7         Chlorobenzene         not detected         4         0.66 ug/L           100-41-4         Ethylbenzene         not detected         nle         2.53 ug/L           1330-20-7         nry-Xylenes         not detected         nle         1.92 ug/L           100-42-5         Styrene         not detected         100         1.57 ug/L           75-25-2         Bromoform         not detected         4         1.68 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         74         3.08 ug/L	79-00-5	1,1,2-Trichloroethane			not detected	3		
591-78-6         2-Hexanone         not detected         nle         1.12 ug/L           126-48-1         Dibromochloromethane         not detected         10         1.36 ug/L           108-90-7         Chlorobenzene         not detected         4         0.66 ug/L           100-41-4         Ethylbenzene         not detected         700         1.14 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         2.53 ug/L           1330-20-7         o-Xylene         not detected         nle         1.92 ug/L           100-42-5         Styrene         not detected         100         1.57 ug/L           75-25-2         Bromoform         not detected         4         1.68 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         74         3.08 ug/L	127-18-4	Tetrachloroethene			not detected	1		
126-48-1         Dibromochloromethane         not detected         10         1.36 ug/L           108-90-7         Chlorobenzene         not detected         4         0.66 ug/L           100-41-4         Ethylbenzene         not detected         700         1.14 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         2.53 ug/L           1330-20-7         o-Xylene         not detected         nle         1.92 ug/L           100-42-5         Styrene         not detected         100         1.57 ug/L           75-25-2         Bromoform         not detected         4         1.68 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         2.51 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         74         3.08 ug/L	591-78-6	2-Hexanone			not detected	nle		
108-90-7         Chlorobenzene         not detected         4         0.66 ug/L           100-41-4         Ethylbenzene         not detected         700         1.14 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         2.53 ug/L           1330-20-7         o-Xylene         not detected         nle         1.92 ug/L           100-42-5         Styrene         not detected         100         1.57 ug/L           75-25-2         Bromoform         not detected         4         1.68 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         2.51 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         74         3.08 ug/L	126-48-1	Dibromochloromethane			not detected	10		
100-41-4         Ethylbenzene         not detected         700         1.14 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         2.53 ug/L           1330-20-7         o-Xylene         not detected         nle         1.92 ug/L           100-42-5         Styrene         not detected         100         1.57 ug/L           75-25-2         Bromoform         not detected         4         1.68 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         2.51 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         74         3.08 ug/L	108-90-7	Chlorobenzene			not detected	4		
1330-20-7         m+p-Xylenes         not detected         nle         2.53 ug/L           1330-20-7         o-Xylene         not detected         nle         1.92 ug/L           100-42-5         Styrene         not detected         100         1.57 ug/L           75-25-2         Bromoform         not detected         4         1.68 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         2.51 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         74         3.08 ug/L	100-41-4	Ethylbenzene				700		
1330-20-7         o-Xylene         not detected         nie         1.92 ug/L           100-42-5         Styrene         not detected         100         1.57 ug/L           75-25-2         Bromoform         not detected         4         1.68 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         2.51 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         74         3.08 ug/L	1330-20-7	m+p-Xylenes						
100-42-5         Styrene         not detected         100         1.57 ug/L           75-25-2         Bromoform         not detected         4         1.68 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         2.51 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         74         3.08 ug/L								
75-25-2         Bromoform         not detected         4         1.68 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         2.51 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         74         3.08 ug/L								
79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         1.71 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         2.51 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         74         3.08 ug/L			1					
541-73-1         1,3-Dichlorobenzene         not detected         600         2.51 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         74         3.08 ug/L						Ī		
106-46-7 1,4-Dichlorobenzene not detected 74 3.08 ug/L								
	95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam vb00114.d

Operator Skelton
Date Acquired 14 Apr 1998 8:20 pm

elton

Sample Name

Field ID

3462.02 Field Blank

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether	1		not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane	i		not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L:	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	_
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone	10.47	32359	6.87 ug/L	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride		-	not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
70-23-3	cis-1,2-Dichloroethene			not detected	10		
67-66-3	Chloroform			not detected	6	0.65 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.43 ug/L	
56-23-5	Carbon Tetrachloride				_	0.81 ug/L	
71-43-2	Benzene			not detected	2	1.20 ng/L	
107-06-2	1,2-Dichloroethane			not detected	-	0.51 ug/L	
79-01-6	Trichloroethene			not detected	2	1.27 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.94 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.78 ug/L	
				not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone	·		not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
10061-02-6			<del></del>	not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene		· ·	not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene		·	not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene	- 1		not detected	600	2.75 ug/L	

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam vb00115.d Operator

Skelton

Date Acquired 14 Apr 1998 9:06 pm

Sample Name

Field ID

3462.03 MW30

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifier
107028	Acrolein		<u> </u>	not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	-
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	-
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
10,00	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	·
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane	1	1	not detected	2	1.27 ug/L	
79-01-6	Trichloroethene	<del></del>		not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.78 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
	Tetrachloroethene			not detected	1	0.92 ug/L	
	2-Hexanone			not detected	nle	1.12 ug/L	
	Dibromochloromethane			not detected	10	1.36 ug/L	
	Chlorobenzene			not detected	4	0.66 ug/L	
	Ethylbenzene			not detected	700	1.14 ug/L	
	m+p-Xylenes	<del> </del>		not detected	nle	2.53 ug/L	
	o-Xylene			not detected	nle	1.92 ug/L	
	Styrene			not detected	100	1.57 ug/L	
	Bromoform			not detected	4	1.68 ug/L	
	1,1,2,2-Tetrachloroethane	<del></del>		not detected	2	1.71 ug/L	
	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	-

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam vb00116.d

Operator

Skelton

Date Acquired 14 Apr 1998 9:52 pm

Sample Name

Field ID

3462.04 MW31

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether	l		not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	ı.
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.43 ug/L	
56-23-5	Carbon Tetrachioride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane		· · · · · · · · · · · · · · · · · · ·	not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nie	1.05 ug/L	
	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone	1		not detected	400	1.33 ug/L	
108-88-3	Toluene	T I		not detected	1000	0.73 ug/L	<del></del>
	trans-1,3-Dichloropropene	1		not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane		-	not detected	2	1.71 ug/L	
	1,3-Dichlorobenzene	$\overline{}$	<del></del>	not detected	600	2.51 ug/L	
	1,4-Dichlorobenzene	$\neg \uparrow$		not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600		
22 20-1	La La La La La La La La La La La La La L		Dualifiana	not detected	OVU	2.75 ug/L	

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam vb00117.d

Operator Skelton Sample Name

3462.05 MW32

Date Acquired 14 Apr 1998 10:38 pm

Field ID

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifier
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile	<u> </u>		not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nie	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane		<u></u>	not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	·
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1 1	0.51 ug/L	
107-06-2	1,2-Dichloroethane	<del></del>		not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1 1	0.78 ug/L	
75-27-4	Bromodichloromethane	·		not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not detected	1000	0.73 ug/L	
	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
127-18-4	1,1,2-Trichloroethane Tetrachloroethene			not detected	3	1.49 ug/L	
591-78-6	2-Hexanone			not detected	1	0.92 ug/L	
126-48-1	Dibromochloromethane	-		not detected not detected	nle	1.12 ug/L	
108-90-7	Chlorobenzene	-			10	1.36 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.66 ug/L	
1330-20-7	m+p-Xylenes			not detected	700	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	2.53 ug/L	
100-42-5	Styrene			not detected	nle	1.92 ug/L	
75-25-2	Bromoform	-+		not detected	100	1.57 ug/L	
				not detected	4	1.68 ug/L	···
	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1 106-46-7	1,3-Dichlorobenzene 1,4-Dichlorobenzene			not detected	600	2.51 ug/L	
				not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam vb00118.d Operator

Skelton

Sample Name Field ID

3462.06 MW33

Date Acquired 14 Apr 1998 11:24 pm

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nlc	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride		·	not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane	:		not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone		•	not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride	<u> </u>		not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform	17.66	26840	1.07 ug/L	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane		··········	not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane		<u> </u>	not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone	• 1		not detected	400	1.33 ug/L	
108-88-3	Toluene	İ		not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nie	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	• 4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam VB00127.D

Operator

Skelton

Date Acquired 15 Apr 1998 8:05 am

Sample Name

3462.07

Field ID

Sample Multiplier

Field Dup 1

CAS#	Compound Name	R.T.	Response	Result	GW Criteria		Qualifiers
107028	Acrolein			not detected	nle	6.25 ug/L	
107131	Acrylonitrile			not detected	nle	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether	<u> </u>		not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
·	Dichlorodifluoromethane			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane	<u> </u>		not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L:	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	·········
75-55-6	1,1,1-Trichloroethane		1	not detected	30	0.81 ug/L	_
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	ī	0.94 ug/L	· · · · · ·
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	1.05 ug/L	
10061-01-5				not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene	Î		not detected	1000	0.73 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	74	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

MDL = Method Detection Limit

NLE = No Limit Established

# 1E ATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID

EST. CONC.

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		IENIAI	IAELI IDENIIL	IED COMPO	פחווס		
Lab Name:	FMETL	·		Project	CW2	VBLK01	
NJDEP#	13461	Ca	se No.: 3462	SDG N	o L	ocation <u>B2700</u>	
Matrix: (soil/\	water)	WATER	_	La	b Sample ID:	VBLK01	
Sample wt/vo	ol:	5.0	(g/ml) ML	La	b File ID:	VB00106.D	
Level: (low/r	ned)	LOW	<del>_</del>	Da	te Received:	04/07/98	
% Moisture: ı	not dec.		· 	Da	te Analyzed:	04/14/98	
GC Column:	HP5M	S ID: 0.	25 (mm)	Dil	ution Factor:	1.0	
Soil Extract \	/olume:		_ (uL)	So	il Aliquot Volu	ıme:	(uL)
			C	ONCENTRAT	TION UNITS:		
Number TICs	s found:	0	(u 	g/L or ug/Kg)	UG/L		

COMPOUND NAME

#### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID

EST. CONC.

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#### TENTATIVELY IDENTIFIED COMPOUNDS

		ILIVIA	HACE! IDE	-14111111	D COMI C	OIVE	,,			
Lab Name:	FMETL				Project	CV	V2	_ Tr	ip Blank	
NJDEP#	13461	c	ase No.: <u>3</u> 4	162	SDG N	lo _	Lo	ocation	B2700	
Matrix: (soil/	water)	WATER	-		La	ab Sa	mple ID:	3462.01		
Sample wt/v	ol:	5.0	(g/ml) <u>N</u>	1L	_ La	b Fil	e ID:	VB0011	3.D	
Level: (low/i	med)	LOW			Da	ate R	eceived:	04/07/98	3	
% Moisture:	not dec.				Da	ate A	nalyzed:	04/14/98	3	
GC Column:	HP5M	<u>s</u> ID: <u>c</u>	).25 (mm	)	Di	lutior	n Factor:	1.0		
Soil Extract \	Volume:	<u> </u>	(uL)		Sc	il Ali	quot Volu	me:		(uL)
Number TICs	s found:	0			NCENTRA L or ug/Kg		UNITS:			

**COMPOUND NAME** 

#### 1E

# **VOLATILE ORGANICS ANALYSIS DATA SHEET**

FIELD ID

EST. CONC.

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		IENIAI	IVELYIL		D COMPC	ONDS				- 1
Lab Name:	FMETL		<u>.</u>		Project	CW2		Fie	ld Bla	ank
NJDEP#	13461	Ca	se No.:	3462	_ SDG N	o	_ Lo	cation	B270	10
Matrix: (soil/	water)	WATER	_		La	b Sample	ID:	3462.02	,	<u> </u>
Sample wt/ve	ol:	5.0	(g/ml)	ML	_ La	b File ID:		VB0011	4.D	
Level: (low/r	ned)	LOW	_		Da	ate Receiv	ed:	04/07/98	3	_
% Moisture:	not dec.				Da	ite Analyz	ed:	04/14/98	3	
GC Column:	HP5M	S_ ID: <u>0.</u>	<u>25</u> (m	m)	Di	lution Fac	tor:	1.0		
Soil Extract \	/olume: _		_ (uL)		So	il Aliquot	Volu	me:		_ (uL)
				CON	NCENTRA	TION UNI	TS:			
Number TiCs	found:	0	_	(ug/i	L or ug/Kg)	UG/	<u>L</u>	<del></del>		
,			•							

COMPOUND NAME

#### 1F

# VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

			· ·					B/11/1/2/0	
Lab Name:	FMETL			Project	CW2		<u></u>	MW30	
NJDEP#	13461	Ca	se No.: 3462	SDG	No	Loc	cation	B2700	)
Matrix: (soil/	water)	WATER	_	Ľ	ab Sample	e ID: 3	3462.03	3	
Sample wt/v	ol:	5.0	(g/ml) ML		ab File ID:	: <u>\</u>	/B0011	5.D	
Level: (low/i	med)	LOW	-	E	oate Recei	ved: <u>C</u>	4/07/9	8	_
% Moisture:	not dec.				ate Analy	zed: C	4/14/9	8	_
GC Column:	HP5M	S ID: 0.2	25_ (mm)	ם	Dilution Fac	ctor: 1	.0		
Soil Extract \	Volume:		_ (uL)	S	oil Aliquot	Volum	ne:		(uL)
Number TICs	s found:	0	*	ONCENTRA			<del></del>		
CAS NO.		COMPOU	ND NAME		RT	EST	. CON	<b>c</b> .	Q

#### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET

### TENTATIVELY IDENTIFIED COMPOUNDS

							1	MW31	
Lab Name:	FMETL			Project	CW2			1111101	
NJDEP#	13461	Case No.:	3462	_ SDG N	No	Loc	ation	B2700	)
Matrix: (soil/	water)	WATER	•	L	ab Sample	D: 3	462.04	·	
Sample wt/v	ol:	5.0 (g/ml)	ML	_ L:	ab File ID:	<u>\</u>	/B0011	6.D	
Level: (low/r	med)	LOW		D	ate Recei	ved: <u>0</u>	4/07/98	3	
% Moisture:	not dec.			D	ate Analyz	zed: <u>0</u>	4/14/98	3	_
GC Column:	HP5M	S ID: <u>0.25</u> (n	n <b>m</b> )	D	ilution Fac	tor: <u>1</u>	.0		
Soil Extract \	Volume:	(uL)		S	oil Aliquot	Volum	ne:		_ (uL)
Number TICs	s found:	0		NCENTRA 'L or ug/Kg				,	
CAS NO.		COMPOUND NA	ME		RT	EST	. CON	<b>5.</b>	Q

#### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Project	CW2		WWW32	
NJDEP#	13461	Case No.:	3462	SDG No	ว เ	_ocation	B2700	
Matrix: (soil/	water)	WATER		Lal	Sample ID	: <u>3462.05</u>		<u>_</u> _
Sample wt/v	ol:	5.0 (g/ml)	ML	_ Lat	File ID:	VB0011	7.D	
Level: (low/r	ned)	LOW		Dat	te Received:	04/07/98	3	
% Moisture:	not dec.			Dat	te Analyzed:	04/14/98	3	
GC Column:	HP5M	S ID: <u>0.25</u> (m	m)	Dilu	ution Factor:	1.0		
Soil Extract \	/olume:	(uL)		Soi	l Aliquot Vol	ume:		(uL)
Number TICs	s found:	0		NCENTRAT L or ug/Kg)	ON UNITS:	<u></u>		
CAS NO.		COMPOUND NAM	ΛE		RT E	ST. CONC	<b>)</b> . (	Q

# 1E VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID

EST. CONC.

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RT

TENTATI	<b>IVELY</b>	IDENTIFIED	COMPOUNDS

	TENTATIVELY IDENTIF	IED COMPOUNDS	10100
Lab Name: FMET	L	Project CW2	MW33
NJDEP# <u>13461</u>	Case No.: 3462	SDG No Lo	cation B2700
Matrix: (soil/water)	WATER	Lab Sample ID:	3462.06
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID:	VB00118.D
Level: (low/med)	LOW	Date Received:	04/07/98
% Moisture: not dec.		Date Analyzed:	04/14/98
GC Column: HP5M	MS ID: <u>0.25</u> (mm)	Dilution Factor:	1.0
Soil Extract Volume:	(uL)	Soil Aliquot Volur	me: (uL)
Number TICs found:	(u	ONCENTRATION UNITS: g/L or ug/Kg) UG/L	· ·

COMPOUND NAME

#### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMET	L.	Project CW2	Field Dup
NJDEP# 13461	Case No.: 3462	SDG No Loc	eation B2700
Matrix: (soil/water)	WATER	Lab Sample ID: 3	462.07
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID: _ <u>V</u>	/B00127.D
Level: (low/med)	LOW	Date Received: 0	14/07/98
% Moisture: not ded	)	Date Analyzed: 0	14/15/98
GC Column: HP5	MS ID: <u>0.25</u> (mm)	Dilution Factor: 1	.0
Soil Extract Volume	e: (uL)	Soil Aliquot Volum	ne: (uL)
Number TICs found	(	CONCENTRATION UNITS: ug/L or ug/Kg) UG/L	
CAS NO.	COMPOUND NAME	RT EST	CONC. Q

Data File Name BN1477.D

Date Acquired

Sample Name

SBLK 5

Operator

FITZPATRICK 04/11/19 -1:1:

Misc Info

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifier
<u>110-</u> 86-1	Pyridine			not detected	NLE	5.00 ug	/L
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug	/L
62-53-3	Aniline			not detected	NLE	0.15 us	/L
108-95-2	Phenol			not detected	4000	0.47 ug	/L
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug	/L
95-57-8	2-Chlorophenol			not detected	40	0.18 ug	/L
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug	/L
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug	
	2-Methylphenol			not detected	NLE	0.14 ug	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug	
	4-Methylphenol			not detected	NLE	0.14 ug	<del></del>
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug	
67-72-1	Hexachloroethane			not detected	10	0.33 ug	
98-95-3	Nitrobenzene			not detected	10	0.46 ug	ı
78-59-1	Isophorone			not detected	100	0.35 ug	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug	ı
120-83-2	2,4-Dichlorophenol			not detected	20	0,12 ug	
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug	L
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug/	
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug/	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug/	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/	L
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/	L
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/	L .
	2,4,5-Trichlorophenol	11		not detected	700	0.31 ug/	L
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/	L
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/	L
131-11-3	Dimethylphthalate			not detected	7000	0.18 ug/	L
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/	L
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/	
83-32-9	Acenaphthene			not detected	400	0.26 ug/	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/	
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug/	
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug/l	

### Semi-Volatile Analysis Report Page 2

Data File Name

BN1477.D

Sample Name

SBLK 5

Operator Date Acquired FITZPATRICK 04/11/19 -1:1:

Misc Info

Sample Multiplier 1

r		<u> </u>			
121-14-2	2,4-Dinitrotoluene	not detected	10	0.36 us	·/L
84-66-2	Diethylphthalate	not detected	5000	0.82 us	/L
86-73-7	Fluorene	not detected	300	0.29 us	/L
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	0.31 ug	/L
100-01-6	4-Nitroaniline	not detected	NLE	0.90 ug	/L
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	0.44 นุย	/L
86-30-6	n-Nitrosodiphenylamine	not detected	20	0.23 ug	/L
103-33-3	Azobenzene	not detected	NLE	0.80 ug	
101-55-3	4-Bromophenyl-phenylether	not detected	NLE	0.55 ug	/L
118-74-1	Hexachlorobenzene	not detected	10	0.82 ug	/L
87-86-5	Pentachlorophenol	not detected	1	1.08 นอ	/L
85-01-8	Phenanthrene	not detected	NLE	0.18 ug	<del></del>
120-12-7	Anthracene	not detected	2000	0.19 ug	
84-74-2	Di-n-butylphthalate	not detected	900	0.23 ug	
206-44-0	Fluoranthene	not detected	300	0.41 ug	
92-87-5	Benzidine	not detected	50	1.45 ug	
129-00-0	Pyrene	not detected	200	0.32 ug	
85-68-7	Butylbenzylphthalate	not detected	100	0.47 ug/	
56-55-3	Benzo[a]anthracene	not detected	10	0.22 ug/	
91-94-1	3,3'-Dichlorobenzidine	not detected	60	0.46 ug/	
218-01-9	Chrysene	not detected	20	0.20 ug/	
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	0.51 ug/	
117-84-0	Di-n-octylphthalate	not detected	100	0.82 ug/	
205-99-2	Benzo[b]fluoranthene	not detected	10	0.37 ug/	
207-08-9	Benzo k fluoranthene	not detected	2	0.32 ug/	
50-32-8	Benzo[a]pyrene	not detected	20	0.31 ug/	
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	0.79 ug/	
53-70-3	Dibenz[a,h]anthracene	not detected	20	0.28 ug/	·
191-24-2	Benzo[g,h,i]perylene	not detected	NLE	0.40 ug/	

#### **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

Data File Name

bn1506.d

Sample Name

3462.02

Operator

FITZPATRICK

Misc Info

FIELD BLANK

Date Acquired

04/27/19 -1:9:

Sample Multiplier

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE		ug/L	Variation .
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	
62-53-3	Aniline			not detected	NLE	0.15		
108-95-2	Phenol			not detected	4000	0.47		
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48		
95-57-8	2-Chlorophenol			not detected	40	0.18		
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15		
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23		
100-51-6	Benzyl alcohol			not detected	NLE	0.18		
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16		
	2-Methylphenol			not detected	NLE	0.14		
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61		
	4-Methylphenol		·	not detected	NLE	0.14	j	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36		
67-72-1	Hexachloroethane			not detected	10	0.33		
98-95-3	Nitrobenzene			not detected	10	0.46		
78-59-1	Isophorone			not detected	100	0.35		· · · · · ·
88-75-5	2-Nitrophenol			not detected	NLE	0.23		
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 1		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 t		
120-83-2	2,4-Dichlorophenol			not detected	20	0.12		
65-85-0	Benzoic Acid			not detected	NLE	0.26 ι		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 t		
91-20-3	Naphthalene			not detected	NLE	0.25 u		
106-47-8	4-Chloroaniline			not detected	NLE	0.19 v		
87-68-3	Hexachlorobutadiene		-	not detected	1	0.38 u		
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 u		
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 u		
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 u		
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 u		***
	2,4,5-Trichlorophenol			not detected	700	0.31 u		
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 u		
88-74-4	2-Nitroaniline			not detected	NLE	0.21 u		
131-11-3	Dimethylphthalate			not detected	7000	0.18 u		
208-96-8	Acenaphthylene			not detected	NLE	0.19 u		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 u	$\overline{}$	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 u		
83-32-9	Acenaphthene			not detected	400	0.26 u		
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ս		
132-64-9	Dibenzofuran			not detected	NLE	0.32 u		
100-02-7	4-Nitrophenoi			not detected	NLE	0.27 u		

# Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

Operator

bn1506.d

FITZPATRICK 04/27/19 -1:9:

Sample Name

3462.02

Misc Info

FIELD BLANK

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emphronizer 1	ample	Multi	plier :	
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121-14-2	2,4-Dinitrotoluene	not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate	not detected	5000		ug/L	
86-73-7	Fluorene	not detected	300		ug/L	
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline	not detected	NLE		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	<del>                                     </del>	ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	20		ug/L	
103-33-3	Azobenzene	not detected	NLE		ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	NLE		ug/L	
118-74-1	Hexachlorobenzene	not detected	. 10		ug/L	-
87-86-5	Pentachlorophenol	not detected	1	·	ug/L	,
85-01-8	Phenanthrene	not detected	NLE		ug/L	
120-12-7	Anthracene	not detected	2000	0.19		
84-74-2	Di-n-butylphthalate	not detected	900	0.23		
206-44-0	Fluoranthene	not detected	300	0.41		
92-87-5	Benzidine	not detected	50	1.45		-
129-00-0	Pyrene	not detected	200	0.32		
85-68-7	Butylbenzylphthalate	not detected	100	0.47		
56-55-3	Benzofalanthracene	not detected	10	0.22	_	
91-94-1	3,3'-Dichlorobenzidine	not detected	60	0.46		
218-01-9	Chrysene	not detected	20	0.20		
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	0.51		
117-84-0	Di-n-octylphthalate	not detected	100	0.82		
205-99-2	Benzo[b]fluoranthene	not detected	10	0.37		
207-08-9	Benzo[k]fluoranthene	not detected	2	0.32	-	
50-32-8	Benzo[a]pyrene	not detected	20	0.31		
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	0.79		
53-70-3	Dibenz[a,h]anthracene	not detected	20	0.28		
191-24-2	Benzo[g,h,i]perylene	not detected	NLE	0.40		

#### <u>Qualifiers</u>

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name bn1507.d

Sample Name

3462.03

Operator

FITZPATRICK

Misc Info

MW-30

Date Acquired

04/27/19 -1:0:

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Oualifiers
110-86-1	Pyridine		·	not detected	NLE	5.00 ug/I	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug/I	
62-53-3	Aniline			not detected	NLE	0.15 ug/I	
108-95-2	Phenol			not detected	4000	0.47 ug/I	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug/I	
95-57-8	2-Chlorophenoi			not detected	40	0.18 ug/I	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug/L	1
	2-Methylphenol			not detected	NLE	0.14 ug/L	
108-60-I	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/L	
	4-Methylphenol			not detected	NLE	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine		-	not detected	20	0.36 ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33 ug/L	
98-95-3	Nitrobenzene		,	not detected	10	0.46 ug/L	
78-59-1	Isophorone			not detected	100	0.35 ug/L	<del> </del>
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not · detected	100	0.27 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1.	0.38 ug/L	
59-50-7	4-Chloro-3-methylphenol	<u> </u>		not detected	NLE	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/L	
83-32-9	Acenaphthene			not detected	400	0.26 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug/L	

# Semi-Volatile Analysis Report Page 2

Data File Name

bm1507.d

FITZPATRICK

Sample Name

3462.03

Operator

Misc Info

MW-30

Date Acquired

04/27/19 -1:0:

Sample Multiplier

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121-14-2	2,4-Dinitrotoluene	not detected	10	0.36 ug/L	
84-66-2	Diethylphthalate	not detected	5000	0.82 ug/L	
86-73-7	Fluorene	not detected	300	0.29 ug/L	
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	0.31 ug/L	
100-01-6	4-Nitroaniline	not detected	NLE	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	20	0.23 ug/L	
103-33-3	Azobenzene	not detected	NLE	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	NLE	0.55 ug/L	
118-74-1	Hexachlorobenzene	not detected	10	0.82 ug/L	
87-86-5	Pentachlorophenol	not detected	1	1.08 ug/L	
85-01-8	Phenanthrene	not detected	NLE	0.18 ug/L	
120-12-7	Anthracene	not detected	2000	0.19 ug/L	
84-74-2	Di-n-butylphthalate	not detected	900	0.23 ug/L	
206-44-0	Fluoranthene	not detected	300	0.41 ug/L	
92-87-5	Benzidine	not detected	50	1.45 ug/L	
129-00-0	Pyrene	not detected	200	0.32 ug/L	
85-68-7	Butylbenzylphthalate	not detected	100	0.47 ug/L	
56-55-3	Benzo[a]anthracene	not detected	10	0.22 ug/L	
91-94-1	3,3'-Dichlorobenzidine	not detected	60	0.46 ug/L	
218-01-9	Chrysene	not detected	20	0.20 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	0.51 ug/L	
117-84-0	Di-n-octylphthalate	not detected	100	0.82 ug/L	
205-99-2	Benzo[b]fluoranthene	not detected	10	0.37 ug/L	
207-08-9	Benzo[k]fluoranthene	not detected	2	0.32 ug/L	
50-32-8	Benzo[a]pyrene	not detected	20	0.31 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	0.79 ug/L	
53-70-3	Dibenz[a,h]anthracene	not detected	20	0.75 ug/L	
191-24-2	Benzo[g,h,i]perylene	not detected	NLE	0.40 ug/L	

#### **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BN1481.D

Sample Name

3462.04

Operator

FITZPATRICK

Misc Info

MW-31

Date Acquired

04/11/19 -1:4:

Sample Multiplier

CAS#	Name	R.T.	Response	Result	GW <u>Criteria</u>	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 us	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug	/L
62-53-3	Aniline			not detected	NLE	0.15 ug	/L
108-95-2	Phenol			not detected	4000	0.47 ug	/L
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48_ug	/L
95-57-8	2-Chiorophenol			not detected	40	0.18 ug	/L
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug	/L
106-46-7	1,4-Dichlorobenzene			not detected	75_	0.23 ug	/L
100-51-6	Benzyl alcohol			not detected	NLE	_ 0.18 ug	n .
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug	лL
	2-Methylphenol			not detected	NLE	0.14 ug	/L
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug	/L
	4-Methylphenol			not detected	NLE	0.14 ug	/L
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug	/L
67-72-1	Hexachioroethane			not detected	10	0.33 ug	/L
98-95-3	Nitrobenzene			not detected	10	0.46 ug	/L
<u>78-59-1</u>	Isophorone			not detected	100	0.35 ug	/L ]
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug	/L
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug	/L
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug	/L
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug	/L
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug	r.
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/	r l
91-20-3	Naphthalene			not detected	NLE	0.25 ug/	L _
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug/	ı
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug/	'L
59-50-7	4-Chioro-3-methylphenol			not detected	NLE	0.18 ug/	ı.
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/	ı 📗 📉
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/	r L
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/	L
	2,4,5-Trichlorophenol			not detected	700_	0.31 ug/	L _
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/	L
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/	L
131-11-3	Dimethylphthalate			not detected	7000	0.18 ug/	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/	L
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/	
83-32-9	Acenaphthene			not detected	400	0.26 ug/	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/	L
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug/	L
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug/	L   I

# Semi-Volatile Analysis Report Page 2

Data File Name

BN1481.D

)1/17-401-IV

Sample Name

3462.04

Operator

FITZPATRICK

Misc Info

MW-31

Date Acquired

04/11/19 -1:4:

Sample Multiplier

121-14-2	2,4-Dinitrotoluene	ļ		not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	<u> </u>		not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine	İ		not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene	1		not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	25.11	59222	1,01 ug/L	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82		i
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37		
207-08-9	Benzo[k]fluoranthene			not detected	- 2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79		
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	,

#### **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BN1482.D

Sample Name

3462.05

Operator

FITZPATRICK

Misc Info

MW-32

Date Acquired

04/11/19 -1:5:

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine	<u> </u>		not detected	20	0.94 ug/L	
62-53-3	Aniline			not detected	NLE	0.15 ug/L	
108-95-2	Phenol			not detected	4000	0.47 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug/L	
	2-Methylphenol			not detected	NLE	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/L	
	4-Methylphenol			not detected	NLE	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46 ug/L	
78-59-1	Isophorone			not detected	100	0.35 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/L	
120-83-2	2,4-Dichlorophenol		•	not detected	20	0.12 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9 .	0.25 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	NLĒ	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/L	
83-32-9	Acenaphthene	1 1		not detected	400	0.26 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/L	
132-64-9	Dibenzofuran	$oxed{oxed}$		not detected	NLE	0.32 ug/L	
100-02-7	4-Nitrophenol	<u></u>		not detected	NLE	0.27 ug/L	

# Semi-Volatile Analysis Report Page 2

Data File Name

BN1482.D

Sample Name

3462.05

Operator

FITZPATRICK

Misc Info

MW-32

Date Acquired

04/11/19 -1:5:

Sample Multiplier

121-14-2	2,4-Dinitrotoluene	not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate	 not detected	5000	0.82	ug/L	
86-73-7	Fluorene	not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline	 not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	 not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine	 not detected	.20	0.23	ug/L	
103-33-3	Azobenzene	not detected	NLE	0.80	ug/L	<u> </u>
101-55-3	4-Bromophenyl-phenylether	not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene	 not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol	not detected	1	1.08	ug/L	
85-01-8	Phenanthrene	 not detected	NLE		ug/L	
120-12-7	Anthracene	not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate	not detected	900		ug/L	
206-44-0	Fluoranthene	 not detected	300	0.41		
92-87-5	Benzidine	not detected	50		ug/L	
129-00-0	Pyrene	not detected	200	0.32		
85-68-7	Butylbenzylphthalate	not detected	100	0.47		
56-55-3	Benzo[a]anthracene	not detected	10	0.22		
91-94-1	3,3'-Dichlorobenzidine	 not detected	60	0.46		
218-01-9	Chrysene	not detected	20	0.20		
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	0.51		
117-84-0	Di-n-octylphthalate	not detected	100	0.82		
205-99-2	Benzo[b]fluoranthene	not detected	10	0.37		
207-08-9	Benzo[k]fluoranthene	not detected	2	0.32		•
50-32-8	Benzo[a]pyrene	not detected	20	0.31		
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	0.79		
53-70-3	Dibenz[a,h]anthracene	not detected	20	0.28		
191-24-2	Benzo[g,h,i]perylene	not detected	NLE	0.40		<del></del>

#### **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name bn1510.d

Sample Name

3462.06

Operator

FITZPATRICK

Misc Info

MW-33

Date Acquired

04/28/19 -1:2:

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug/L	
62-53-3	Aniline			not detected	NLE	0.15 ug/L	
108-95-2	Phenol			not detected	4000	0.47 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18 ug/L	
541-73-1	1,3-Dichlorobenzene	J		not detected	600	0.15 ug/L	<u> </u>
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug/L	
	2-Methylphenol			not detected	NLE	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/L	
	4-Methylphenol			not detected	NLE	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46 ug/L	
78-59-1	Isophorone			not detected	100	0.35 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug/L	
111-91-1	bis(2-Chloroethoxy)methane	1		not detected	NLE	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug/L	
59-50-7	4-Chioro-3-methylphenol	1_1		not detected	NLE	0.18 ug/L	
91-57-6	2-Methylnaphthalene	<u>                                     </u>		not detected	NLE	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/L	
	2,4,5-Trichlorophenol	<del>                                     </del>		not detected	700	0.31 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/L	
88-74-4	2-Nitroaniline	1		not detected	NLE	0.21 ug/L	
. 131-11-3	Dimethylphthalate			not detected	7000	0.18 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/L	
83-32-9	Acenaphthene			not detected	400	0.26 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug/L	
100-02-7	4-Nitrophenol	<u>L1</u>		not detected	NLE	0.27 ug/L	

# Semi-Volatile Analysis Report Page 2

Data File Name

bn1510.d

Sample Name

3462.06

Operator

FITZPATRICK

Misc Info

MW-33

Date Acquired

04/28/19 -1:2:

Sample Multiplier 1

				<u> </u>
121-14-2	2,4-Dinitrotoluene	not detected	10	0.36 ug/L
84-66-2	Diethylphthalate	not detected	5000	0.82 ug/L
86-73-7	Fluorene	not detected	300	0.29 ug/L
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	0.31 ug/L
100-01-6	4-Nitroaniline	not detected	NLE	0.90 ug/L
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	0.44 ug/L
86-30-6	n-Nitrosodiphenylamine	not detected	20	0.23 ug/L
103-33-3	Azobenzene	not detected	NLE	0.80 ug/L
101-55-3	4-Bromophenyl-phenylether	not detected	NLE	0.55 ug/L
118-74-1	Hexachlorobenzene	not detected	10	0.82 ug/L
87-86-5	Pentachlorophenol	not detected	1	1.08 ug/L
85-01-8	Phenanthrene	not detected	NLE	0.18 ug/L
120-12-7	Anthracene	not detected	2000	0.19 ug/L
84-74-2	Di-n-butylphthalate	not detected	900	0.23 ug/L
206-44-0	Fluoranthene	not detected	300	0.41 ug/L
92-87-5	Benzidine	not detected	50	1.45 ug/L
129-00-0	Pyrene	not detected	200	0.32 ug/L
85-68-7	Butylbenzylphthalate	not detected	100	0.47 ug/L
56-55-3	Benzo[a]anthracene	not detected	10	0.22 ug/L
91-94-1	3,3'-Dichlorobenzidine	not detected	60	0.46 ug/L
218-01-9	Chrysene	not detected	20	0.20 ug/L
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	0.51 ug/L
117-84-0	Di-n-octylphthalate	not detected	100	0.82 ug/L
205-99-2	Benzo[b]fluoranthene	not detected	10	0.37 ug/L
207-08-9	Benzo[k]fluoranthene	not detected	2	0.32 ug/L
50-32-8	Benzo[a]pyrene	not detected	20	0.31 ug/L
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	0.79 ug/L
53-70-3	Dibenz[a,h]anthracene	not detected	20	0.28 ug/L
191-24-2	Benzo[g,h,i]perylene	not detected	NLE	0.40 ug/L

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit .

NLE = No Limit Established

R.T. = Retention Time

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name BN1511.D

Sample Name

3462.07

Operator

FITZPATRICK

Misc Info

FIELD DUP

Date Acquired

04/28/19 -1:1:

Sample Multiplier

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 ug/	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug/	
62-53-3	Aniline		·	not detected	NLE	0.15 ug/	
108-95-2	Phenol			not detected	4000	0.47 ug/	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug/	
95-57-8	2-Chlorophenol			not detected	40	0.18 ug/	-
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug/	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/	
100-51-6	Benzyl alcohol	<u> </u>		not detected	NLE	0.18 ug/l	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug/l	
	2-Methylphenol			not detected	NLE	0.14 ug/l	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/l	
	4-Methylphenol			not detected	NLE	0.14 ug/J	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug/I	
67-72-1	Hexachloroethane			not detected	10	0.33 ug/I	
98-95-3	Nitrobenzene			not detected	10	0.46 ug/I	
78-59-1	Isophorone			not detected	100	0.35 ug/I	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug/I	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug/I	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/I	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug/I	,
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug/L	,
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/L	,
106-47-8	4-Chloroaniline	<u> </u>		not detected	NLE	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/L	
77-47-4	Hexachiorocyclopentadiene			not detected	50	1.50 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	- I
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/L	
83-32-9	Acenaphthene			not detected	400	0.26 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug/L	

# Semi-Volatile Analysis Report Page 2

Data File Name

BN1511.D

Sample Name

3462.07

Operator

FITZPATRICK "

Misc Info

FIELD DUP

Date Acquired

04/28/19 -1:1:

Sample Multiplier

·				F				
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000_	0.82	ug/L	
86-73-7	Fluorene			not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE_	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1_1_	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate	21.89	348466	2.60 ug/L	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butyibenzylphthalate			not detected	100	0.47	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	26.90	138955	2.46 ug/L	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28	ug/L	
191-24-2	Benzolg,h,ilperylene	1 . 1		not detected	NLE	0.40	ug/L	

#### **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMET	L	Lab Co	de 13461		SBLK	<b>51</b>
Project	Case No.: 3462	Loca	tion <u>B.270</u>	00 SDC	3 No.: (	WZ
Matrix: (soil/water)	WATER		Lab Sampi	e ID: S	BLK51	, <u> </u>
Sample wt/vol:	1000 (g/ml) ML		Lab File ID	: <u>B</u>	N1477.D	
Level: (low/med)	LOW	1	Date Recei	ved: 04	4/07/98	
% Moisture:	decanted: (Y/N)	<u>N</u> I	Date Extra	cted: 04	4/08/98	<u> </u>
Concentrated Extra	ct Volume: 1000 (uL)	i	Date Analy:	zed: 04	1/11/98	
Injection Volume: 1	1.0 (uL)	. [	Dilution Fac	ctor: 1.	0	
GPC Cleanup: (Y/N)	N pH: 7	-			· · ·	_
		CONCE	NTRATION	UNITS	:	
Number TICs found:	1	(ug/L or i	ug/Kg)	UG/L		_
CAS NUMBER	COMPOUND NAME		RT	EST.	CONC.	Q
1.	unknown		4.85	Ï	50	

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMETL		_ Lab Code <u>13461</u>	FIELD BLANK
Project	Case No.: 3462	Location B.2700	SDG No.: CW Z
Matrix: (soil/water) WA	TER	Lab Sample	ID: <u>3462.02</u>
Sample wt/vol: 100	0 (g/ml) ML	Lab File ID;	BN1506.D
Level: (low/med) LOV	<u>v</u>	Date Receiv	ed: <u>04/07/98</u>
% Moisture:	decanted: (Y/N)	N Date Extract	ed: 04/08/98
Concentrated Extract Volume	me: 1000 (uL)	Date Analyzo	ed: 04/27/98
Injection Volume: 1.0	(uL)	Dilution Fact	or: <u>1.0</u>
GPC Cleanup: (Y/N)	N pH: 7		
		CONCENTRATION	JNITS:
Number TICs found:	0	(ug/L or ug/Kg)	JG/L
CAS NUMBER CO	MPOUND NAME	RT	EST. CONC. Q

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

# TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMETL		Lab Code	13461		MW-	30
Project	Case No.: 3462	_ Locatio	n <u>B.27</u>	00 SD	G No.:	w z
Matrix: (soil/water) WATI	ER	La	b Sampl	e ID: 3	3462.03	
Sample wt/vol: 1000	(g/ml) ML	_ La	b File ID	: <u>E</u>	3N1507.D	
Level: (low/med) LOW	·	Da	te Rece	ived: <u>C</u>	04/07/98	
% Moisture:	decanted: (Y/N)	N Da	te Extra	cted: 0	14/08/98	· <del>-</del>
Concentrated Extract Volum	e: <u>1000</u> (uL)	Da	te Analy	zed: 0	4/27/98	
Injection Volume: 1.0 (u	L)	Dil	ution Fa	ctor: 1	.0	
GPC Cleanup: (Y/N) N	pH: <u>7</u>					<del></del>
Number TICs found:	CONCENT		UNITS	S:		
CAS NUMBER COM	POUND NAME		RT	EST	. CONC.	Q

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMETI	<u>L</u>	Lab Code 13461	MW-31
Project	Case No.: 3462	Location B.2700 SD	G No.: CLD 2
Matrix: (soil/water)	WATER	Lab Sample ID:	3462.04
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN1481.D
Level: (low/med)	LOW	Date Received: (	04/07/98
% Moisture:	decanted: (Y/N) _	N Date Extracted: 0	04/08/98
Concentrated Extrac	t Volume: 1000 (uL)	Date Analyzed: 0	04/11/98
Injection Volume: 1	.0 (uL)	Dilution Factor: 1	1.0
GPC Cleanup: (Y/N)	NpH: _7		
Number TICs found:	1	CONCENTRATION UNIT	
CAS NUMBER	COMPOUND NAME	RT EST	CONC. Q
1.	unknown	4.83	30 J

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

# TENTATIVELY IDENTIFIED COMPOUNDS

104 00

22

4.84

FIELD ID

Lab Name: FMETL		Lab Co	de <u>13461</u>		IVIVV-	32
Project	Case No.: 3462	Locat	tion <u>B.270</u>	00 SE	OG No.:	W Z
Matrix: (soil/water)	WATER	ı	Lab Sample	e ID:	3462.05	
Sample wt/vol:	1000 (g/ml) ML		Lab File ID	:	BN1482.D	
Level: (low/med)	LOW	1	Date Recei	ved:	04/07/98	
% Moisture:	decanted: (Y/N) _	<u>N</u> I	Date Extra	cted:	04/08/98	
Concentrated Extract	Volume: 1000 (uL)		Date Analy	zed:	04/11/98	<del>_</del> -
Injection Volume: 1.	0 (uL)	i	Dilution Fa	ctor:	1.0_	<u></u>
GPC Cleanup: (Y/N)	<u>N</u> pH: 7					
Number TICs found:	1	CONCEI	NTRATION ug/Kg)	UNIT UG/L	-	
CAS NUMBER	COMPOUND NAME		RT	ES	T. CONC.	Q

1. 000123-42-2 2-Pentanone, 4-hydroxy-4-methyl

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMET	<u>L</u>	Lab Co	de 13461		MW-	33
Project	Case No.: 3462	Loca	tion B.270	00 SD	G No.:	12 Z
Matrix: (soil/water)	WATER		Lab Sampl	e ID: 3	3462.06	
Sample wt/vol:	1000 (g/ml) ML		Lab File ID	: <u>E</u>	3N1510.D	
Level: (low/med)	LOW		Date Recei	ved: (	04/07/98	
% Moisture:	decanted: (Y/N)	N	Date Extra	cted: 0	04/08/98	<del></del>
Concentrated Extrac	t Volume: 1000 (uL)		Date Analy:	zed: [	04/28/98	
Injection Volume: 1	.0 (uL)	į	Dilution Fac	ctor: 1	1.0	
GPC Cleanup: (Y/N)	NpH: _7					
Number TICs found:	1	CONCE	NTRATION ug/Kg)	UNIT:	S:	
CAS NUMBER	COMPOUND NAME		RT	EST	CONC.	Q
1	unknown			<u> </u>		

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL		·	Lab Code 13461	FIELD DUP
Project		Ca	se No.: 3462	Location B.2700 S	DG No.: <u>CW Z</u>
Matrix: (soil/	water)	WATER	_	Lab Sample ID:	3462.07
Sample wt/vo	ol:	1000	(g/ml) ML	_ Lab File ID:	BN1511.D
Level: (low/r	ned)	LOW	<del></del>	Date Received:	04/07/98
% Moisture:		dec	anted: (Y/N)N	Date Extracted:	04/08/98
Concentrated	i Extract \	Volume:	1000 (uL)	Date Analyzed:	04/28/98
Injection Volu	ıme: <u>1.0</u>	(uL)		Dilution Factor:	1.0
GPC Cleanu	p: <b>(Y/N)</b>	N	pH: <u>7</u>		
			ı	CONCENTRATION UNIT	ΓS:
Number TICs	found:	4		(ug/L or ug/Kg) UG/L	

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	6.51	15	J
2.	unknown	25.79	33	J
3	unknown	26.13	10	J
4.	unknown	26.24	20	J

(ug/L or ug/Kg)

UG/L

Client:

U.S. Army

Lab. ID #:

PBLK63

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

4/8/98

Ft. Monmouth, NJ 07703

Analysis Date:

5/13/98

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

Ext. Meth:

Sep. Funnel

runnel				
Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
1		0.02	0.0023	ND
1		0.20	0.0026	ND
1		0.20	0.0026	ND
1		NLE	0.0029	ND
1		0.40	0.0027	ND
1		0.04	0.0028	ND
1		0.20	0.0024	ND
1		0.40	0.0024	ND
1		0.10	0.0034	ND
1		0.03	0.0019	ND
1		2.00	0.0030	ND
1		NLE	0.0100	ND
1		0.40	0.0027	ND
1		0.10	0.0066	ND
1		0.10	0.0015	ND
1		0.40	0.0010	ND
1		NLE	0.0100	ND
1		0.50	0.0140	ND
1		0.50	0.0140	ND
1		3.00	0.0182	ND
1		0.50	0.0640	ND
1		0.50	0.0500	ND
1		0.50	0.0500	ND
1		0.50	0.0280	ND
1		0.50	0.0500	ND
1		0.50	0.0500	ND
1		0.50	0.0680	ND
	Dilution   Factor   1	Dilution   Retention   Time	Dilution   Retention   Time   CW   Criteria     1	Dilution Factor   Time   Criteria   MDL (ug/L)

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

## Quantitation Report (Not Reviewed)

Signal #1 : C:\HPCHEM\1\DATA\980513\P02730.D\ECD1A.CH

Signal #2 : C:\HPCHEM\1\DATA\980513\P02730.D\ECD2B.CH

Acq On : 13 May 98 10:17 am Operator: Skelton Sample : PBLK63 Inst : Dual ECD

Misc Multiplr: 1.00

IntFile Signal #1: EVENTS.E
IntFile Signal #2: EVENTS2.E Quant Time: May 13 14:06 1998 Quant Results File: PEST06.RES

Quant Method : C:\HPCHEM\1\METHODS\PEST06.M (Chemstation Integrator)

: pesticide cali table

Last Update : Tue May 12 15:19:47 1998 Response via : Initial Calibration

DataAcq Meth : PEST06.M

Volume Inj.

Signal #1 Phase : Signal #2 Phase: Signal #1 Info : Signal #2 Info:

Compound R.T. Response Conc Units

System Monitoring Compounds

1) SAB Tetrachlor-m-xylene		20.26	44617	5.423 ug/L
Spiked Amount 100.000		·		5.42%
20) SAB Decachlorobiphenyl		36.32	79330	12.108 ug/L
Spiked Amount 100.000		Recover	y =	
22) SAB Tetrachlor-m-xylene	#2	22.03	56205	6.008 ug/L
Spiked Amount 100.000		Recover	y =	6.01%
41) SAB Decachlorobiphenyl	#2	40.33	97272	11.388 ug/L
Spiked Amount 100.000		Recover	y =	11.39%

Target Compounds

Client:

U.S. Army

Lab. ID#:

3462.02

DPW, SELFM-PW-EV

Date Rec'd:

4/7/98

Bldg. 173

**Extraction Date:** 

4/8/98

Ft. Monmouth, NJ 07703

Analysis Date:

5/13/98

Analysis:

EPA Method 608

Location:

Bldg. 2700

Matrix:

Aqueous

CW-2

Analyst:

D. Wright

Field ID:

Field Blank

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID #:

3462.03

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

4/7/98 4/8/98

Ft. Monmouth, NJ 07703

Analysis Date:

5/13/98

Analysis:

EPA Method 608

Location:

Bldg. 2700

Matrix:

Aqueous

CW-2

Analyst:

D. Wright

Field ID:

MW30(#2932594)

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4' <b>-DD</b> T	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID#:

3462.04

DPW, SELFM-PW-EV

Date Rec'd:

4/7/98

Bldg. 173

Extraction Date:

4/8/98

Ft. Monmouth, NJ 07703

Analysis Date:

5/13/98

Analysis:

EPA Method 608

Location:

Bldg. 2700

Matrix:

Aqueous

CW-2

Analyst:

D. Wright

Field ID:

MW31(#2932595)

Ext. Meth:

Sep. Funnel

	I diffici	I	<del></del>		
Pesticide/PCB	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE ,	0.0100	ND
Alpha-chiordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND
TD - NT-+ TD-+ 1			<del></del>		

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID#:

3462.05

DPW, SELFM-PW-EV

Date Rec'd:

4/7/98

Bldg. 173

**Extraction Date:** 

4/8/98

Ft. Monmouth, NJ 07703

Analysis Date:

5/13/98

Analysis:

EPA Method 608

Location:

Bldg. 2700

Matrix:

Aqueous

CW-2

Analyst:

D. Wright

Field ID:

MW32(#2932596)

Ext. Meth:

Sep. Funnel

=						
•	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)	
alpha-BHC	1		0.02	0.0023	ND	
beta-BHC	1		0.20	0.0026	ND	
gamma-BHC	1		0.20	0.0026	ND	
delta-BHC	1		NLE	0.0029	ND	
Heptachlor	1		0.40	0.0027	ND	
Aldrin	1		0.04	0.0028	ND	
Heptachlor Epoxide	1		0.20	0.0024	ND	
Endosulfan I	1		0.40	0.0024	ND	
4,4'-DDE	1		0.10	0.0034	ND	
Dieldrin	1		0.03	0.0019	ND	
Endrin	1		2.00	0.0030	ND	
Endrin Ketone	1		NLE	0.0100	ND	
Endosulfan II	1		0.40	0.0027	ND	
4,4'-DDD	1		0.10	0.0066	ND	
4,4'-DDT	1		0.10	0.0015	ND	
Endosulfan-Sulfate	1		0.40	0.0010	ND	
Methoxychlor	1		NLE	0.0100	ND	
Alpha-chlordane	1		0.50	0.0140	ND	
Gamma-chlordane	1		0.50	0.0140	ND	
Toxaphene	1		3.00	0.0182	ND	
Arochlor 1016	1		0.50	0.0640	ND	
Arochlor 1221	1		0.50	0.0500	ND	
Arochlor 1232	1		0.50	0.0500	ND	
Arochlor 1242	1		0.50	0.0280	ND	
Arochlor 1248	1		0.50	0.0500	ND	
Arochlor 1254	1		0.50	0.0500	ND	
Arochlor 1260	1		0.50	0.0680	ND	

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID#:

3462.06

DPW, SELFM-PW-EV

Date Rec'd:

4/7/98

Bldg. 173

**Extraction Date:** 

4/8/98

Ft. Monmouth, NJ 07703

Analysis Date:

5/13/98

Analysis:

EPA Method 608

Location:

Bldg. 2700

Matrix:

Aqueous

CW-2

Analyst:

Aqueous

D. Wright

Field ID:

MW33#2932597)

Ext. Meth:

Sep. Funnel

· —·	sep. 1 dimer	. 1 compet			
	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND -
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dieldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	. 1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND
ND = Not Detected		Colores Deine		D+ 5 00 10	

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

Client:

U.S. Army

Lab. ID#:

3465.07

DPW, SELFM-PW-EV

Date Rec'd:

4/7/98

Bldg. 173

Extraction Date:

4/8/98

Ft. Monmouth, NJ 07703

Analysis Date:

5/13/98

Analysis:

EPA Method 608

Location:

Bldg. 2700

Matrix:

Aqueous

CW-2

Analyst:

D. Wright

Field ID:

Field Dup

Ext. Meth:

Sep. Funnel

EXI. Mein:	ер. ғишеі				
	Dilution Factor	Retention Time	GW Criteria	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0023	ND
beta-BHC	1		0.20	0.0026	ND
gamma-BHC	1		0.20	0.0026	ND
delta-BHC	1		NLE	0.0029	ND
Heptachlor	1		0.40	0.0027	ND
Aldrin	1		0.04	0.0028	ND
Heptachlor Epoxide	1		0.20	0.0024	ND
Endosulfan I	1		0.40	0.0024	ND
4,4'-DDE	1		0.10	0.0034	ND
Dìeldrin	1		0.03	0.0019	ND
Endrin	1		2.00	0.0030	ND
Endrin Ketone	1		NLE	0.0100	ND
Endosulfan II	1		0.40	0.0027	ND
4,4'-DDD	1		0.10	0.0066	ND
4,4'-DDT	1 .		0.10	0.0015	ND
Endosulfan-Sulfate	1		0.40	0.0010	ND
Methoxychlor	1		NLE	0.0100	ND
Alpha-chlordane	1		0.50	0.0140	ND
Gamma-chlordane	1		0.50	0.0140	ND
Toxaphene	1		3.00	0.0182	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND
ND = Not Detected		Column Prima	<del></del>	Dtv 5 20m/2	22TD/ 25

ND = Not Detected

Column-Primary:

Rtx-5 30m/.32mmID/.25um

MDL = Method Detection Limit

Column-Confirmation:

Rtx-1701 30m/.32mmID/.25um

# **Report of Analysis**

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

Lab ID #: 3462

DPW, SELFM-PW-EV

Sample Preparation: 05/26/98

Bldg. 173

Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

Site:

CW-2

Ft. Monmouth, New Jersey

# METHOD BLANK SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	05/28/98	ND	200	10.0
Antimony	05/28/98	2.8	20	2.0
Arsenic	05/28/98	ND	8	2.0
Barium	05/28/98	ND	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	ND	4	0.5
Calcium	05/28/98	53	NLE	20.0
Chromium	05/28/98	ND	100	0.5
Cobalt	05/28/98	ND	NLE	0.5
Copper	05/28/98	ND	1000	3.0
Iron	05/28/98	55	300	10.0
Lead	05/28/98	ND	10	2.0
Magnesium	05/28/98	78	NLE	20.0
Manganese	05/28/98	ND	50	0.5
Mercury	04/10/98	ND	2	0.2
Nickel	05/28/98	1.4	100	0.5
Potassium	05/28/98	ND	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	ND	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	ND	NLE	1.0
Zinc	05/28/98	2.8	5000	1.0

# Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3462.02

Sample Received: 04/07/98

Sample Matrix: Aqueous

Site: CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	05/28/98	ND	200	10.0
Antimony	05/28/98	ND	20	2.0
Arsenic	05/28/98	ND	8	2.0
Barium	05/28/98	1.3	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	ND	4	0.5
Calcium	05/28/98	76.0	NLE	20.0
Chromium	05/28/98	ND	100	0.5
Cobalt	05/28/98	ND	NLE	0.5
Copper	05/28/98	12.0	1000	3.0
Iron	05/28/98	63.0	300	10.0
Lead	05/28/98	ND	10	2.0
Magnesium	05/28/98	ND	NLE	20.0
Manganese	05/28/98	1.5	50	0.5
Mercury	04/10/98	ND	2	0.2
Nickel	05/28/98	5.8	100	0.5
Potassium	05/28/98	ND	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	ND	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	ND	NLE	1.0
Zinc	05/28/98	8,2	5000	1.0

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3462.03

Sample Received: 04/07/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-30

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	05/28/98	196	200	10.0
Antimony	05/28/98	ND	20	2.0
Arsenic	05/28/98	5.6	8	2.0
Barium	05/28/98	35.5	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	ND	4	0.5
Calcium	05/28/98	41000	NLE	20.0
Chromium	05/28/98	ND	100	0.5
Cobalt	05/28/98	ND	NLE	0.5
Copper	05/28/98	3.8	1000	3.0
Iron	05/28/98	3504	300	10.0
Lead	05/28/98	ND	10	2.0
Magnesium	05/28/98	3437	NLE	20.0
Manganese	05/28/98	39.3	50	0.5
Mercury	04/10/98	ND	2	0.2
Nickel	05/28/98	3.5	100	0.5
Potassium	05/28/98	5793	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	13010	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	2.3	NLE	1.0
Zinc	05/28/98	17.2	5000	1.0

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3462.04

Sample Received: 04/07/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-31

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	05/28/98	ND	200	10.0
Antimony	05/28/98	ND	20	2.0
Arsenic	05/28/98	ND	8	2.0
Barium	05/28/98	249	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	ND	4	0.5
Calcium	05/28/98	48520	NLE	20.0
Chromium	05/28/98	ND	100	0.5
Cobalt	05/28/98	ND	NLE	0.5
Copper	05/28/98	ND	1000	3.0
Iron	05/28/98	115100	300	10.0
Lead	05/28/98	ND	10	2.0
Magnesium	05/28/98	5663	NLE	20.0
Manganese	05/28/98	266	50	0.5
Mercury	04/10/98	ND	2	0.2
Nickel	05/28/98	ND	100	0.5
Potassium	05/28/98	12490	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	8927	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	ND	NLE	1.0
Zinc	05/28/98	29.1	5000	1.0

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3462.05

Sample Received: 04/07/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-32

# TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	05/28/98	ND	200	10.0
Antimony	05/28/98	ND	20	2.0
Arsenic	05/28/98	ND	8	2.0
Barium	05/28/98	109	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	0.6	4	0.5
Calcium	05/28/98	71090	NLE	20.0
Chromium	05/28/98	ND _	100	0.5
Cobalt	05/28/98	0.7	NLE	0.5
Copper	05/28/98	13.7	1000	3.0
Iron	05/28/98	19280	300	10.0
Lead	05/28/98	ND	10	2.0
Magnesium	05/28/98	7413	NLE	20.0
Manganese	05/28/98	287	50	0.5
Mercury	04/10/98	ND	2	0.2
Nickel	05/28/98	6.9	100	0.5
Potassium	05/28/98	10210	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	10860	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	ND	NLE	1.0
Zinc	05/28/98	257	5000	1.0

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3462.06

Sample Received: 04/07/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	05/28/98	119	200	10.0
Antimony	05/28/98	ND	20	2.0
Arsenic	05/28/98	3.4	8	2.0
Barium	05/28/98	123	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	ND	4	0.5
Calcium	05/28/98	31310	NLE	20.0
Chromium	05/28/98	ND	100	0.5
Cobalt	05/28/98	ND	NLE	0 <u>.5</u>
Copper	05/28/98	ND	1000	3.0
Iron	05/28/98	19780	300	10.0
Lead	05/28/98	ND	10	2.0
Magnesium	05/28/98	5651	NLE	20.0
Manganese	05/28/98	110	50	0.5
Mercury	04/10/98	ND	2	0.2
Nickel	05/28/98	2.2	100	0.5
Potassium	05/28/98	6223	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	14730 -	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	ND	NLE	1.0
Zinc	05/28/98	ND	5000	1.0

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3462.07

Sample Received: 04/07/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Dup.

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
<u></u>	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	05/28/98	ND	200	10.0
Antimony	05/28/98	ND	20	2.0
Arsenic	05/28/98	2.9	8	2.0
Barium	05/28/98	272	2000	0.5
Beryllium	05/28/98	ND	20	0.5
Cadmium	05/28/98	ND	4	0.5
Calcium	05/28/98	49420	NLE	20.0
Chromium	05/28/98	ND	100	0.5
Cobalt	05/28/98	ND	NLE	0,5
Copper	05/28/98	ND	1000	3.0
Iron	05/28/98	140300	300	10.0
Lead	05/28/98	ND	10	2.0
Magnesium	05/28/98	5702	NLE	20.0
Manganese	05/28/98	271	50	0.5
Mercury	04/10/98	ND	2	0.2
Nickel	05/28/98	ND	100	.0.5
Potassium	05/28/98	12710	NLE	20.0
Selenium	05/28/98	ND	50	3.0
Silver	05/28/98	ND	20	3.0
Sodium	05/28/98	13270	50000	20.0
Thallium	05/28/98	ND	10	3.0
Vanadium	05/28/98	ND	NLE	1.0
Zinc	05/28/98	ND	5000	1.0

:	Lab	Silanol, trimethyl-	Hexadeca( noic Acid	2-methyl-		2-Pentanone 4-hydroxy- 4-methyl	Iron	Manganese	Aluminum	Arsenic	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	-
NJDEP Criteria:		NLE	NLE	NLE	NLE	NLE	300	50	200	8	-
04/24/97	FMETL	31	9	51	31	18	9100	69	-		V,S,P,M
07/10/97	FMETL	ND	ND	ND	ND	ND	12590	73	25	5.0	V,S,P,M
10/22/97	FMETL	ND	ND	ND	ND	ND	34800	171	175	5.0	V,S,P,M
01/08/98	FMETL	ND	ND	ND	ND	ND	2795	5.0	204	ND	V,S,P,M
04/07/98	FMETL	ND	ND	ND	ND	ND	3504	39.3	196	5.6	V,S,P,M

SOURCE: MW30					
Sampling Dates:					
04/24/97 - 04/07/98					

NOTES:

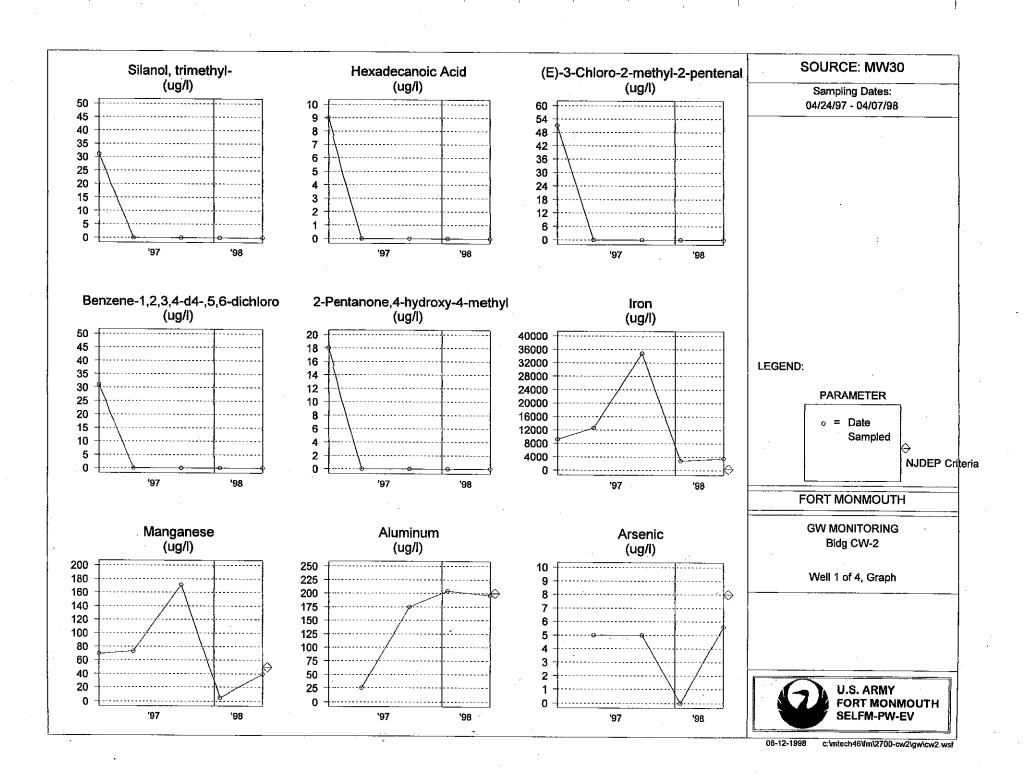
Page 1 of 2.

# FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 1 of 4





	Lab	Lead	Depth to Water							Notes
Units:	-	ugl	Feet	 						<del>                                     </del>
NJDEP Criteria:		10	-							†
04/24/97	FMETL		6.45		<del></del>			-	-	V,S,P,M
07/10/97	FMETL	ND	7.05	 					<del>                                     </del>	V,S,P,M
10/22/97	FMETL	5.0	7.60	 						V,S,P,M
01/08/98	FMETL	4.0	5.20	 			-	<del></del>	· · -	V,S,P,M
04/07/98	FMETL	ND	6.56	 		_			-	V,S,P,M

SQL	JRCE:	MW30
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Sampling Dates: 04/24/97 - 04/07/98

NOTES:

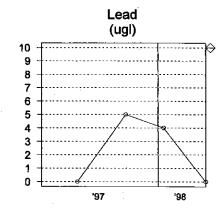
Page 2 of 2.

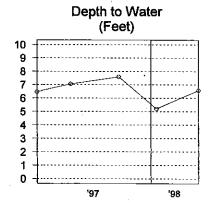
# FORT MONMOUTH

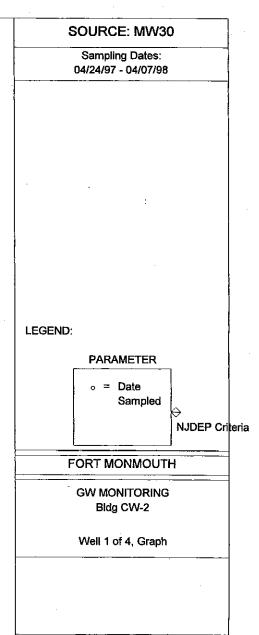
**GW MONITORING** Bldg CW-2

Well 1 of 4











	Lab	Silanol, trimethyl-	bis(2-Ethy( hexyl phthalate	2-methyl-	Benzene-1; 2,3,4,-d4,5, 6-dichloro		e Iron	Manganese	Aluminum	Arsenic	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	-
NJDEP Criteria:	•	NLE	30	NLE	NLE	NLE	300	50	200	8	_
04/24/97	FMETL	12	ND	60	35	330	59900	277	-	-	V,S,P,M
07/10/97	FMETL	ND	ND	ND	ND	ND	11830	267	ND	1.0	V,S,P,M
10/22/97	FMETL	ND	ND	ND	ND	ND	52300	243	- 93	ND	V,S,P,M
01/08/98	FMETL	ND	ND	ND	ND	ND	68450	240	129	ND	V,S,P,M
04/07/98	FMETL	ND	1.01	ND	ND	ND	115100	266	ND	ND	V,S,P,M

SOURCE: MW31						
	Sampling Dates:					
	04/24/97 - 04/07/98					
NOTES:						

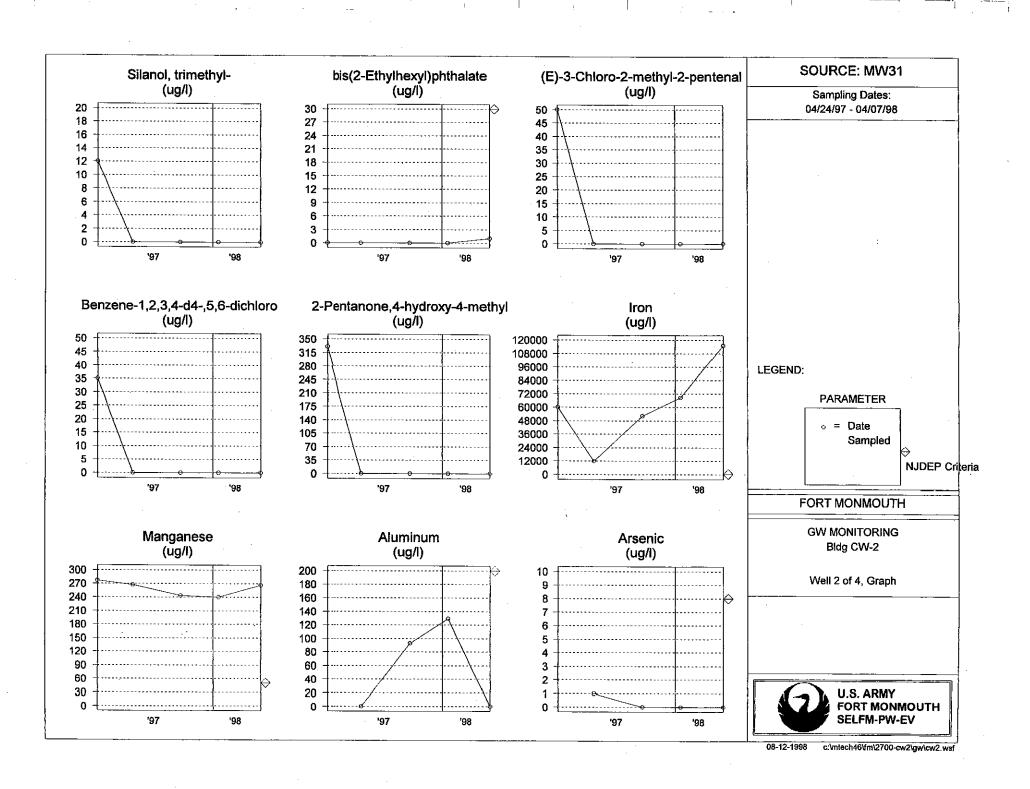
Page 1 of 2.

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 2 of 4





	Lab	Lead	Depth to Water	- Translated					Notes
Units:	_	ugl	Feet		 		 <del></del>		
NJDEP Criteria:	-	10	-				 		
04/24/97	FMETL	-	6.38		 		 		V,S,P,M
07/10/97	FMETL	ND	7.00		 		 		V,S,P,M
10/22/97	FMETL	6.0	7.50		 		 		V,S,P,M
01/08/98	FMETL	25	6.30		 <del></del>		<del> </del>	<u> </u>	V,S,P,M
04/07/98	FMETL	ND	6.35		 -	<u> </u>	_		V,S,P,M

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Sampling Dates: 04/24/97 - 04/07/98

NOTES:

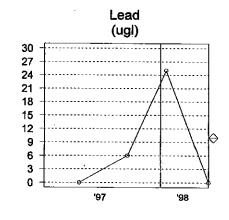
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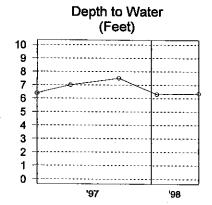
#### FORT MONMOUTH

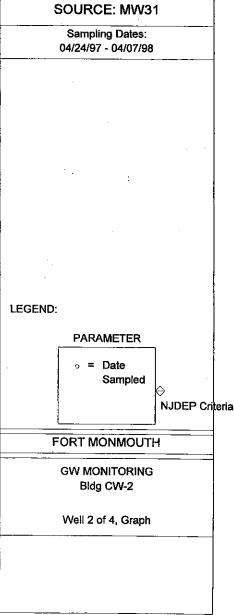
GW MONITORING Bldg CW-2

Well 2 of 4











•	Lab	Silanol, trimethyl-	bis(2-Ethyl hexyl phthalate	Hexadeca noic Acid		Pentanone 4-hydroxy- 4-methyl	Iron	Manganese	Aluminum	Lead	Notes
Units:		ug/l	ug/l	ug/l	ug/l	ug/i	ug/i	ug/l	ug/l	ugl	
NJDEP Criteria:	_	NLE	30	NLE	NLE	NLE	300	50	200	10	-
04/24/97	FMETL	4	1.54	18	100	440	18400	125	-	_	V,S,P,M
07/10/97	FMETL	ND	ND	ND	ND	ND	270	181	595	ND	V,S,P,M
10/22/97	FMETL	ND	ND	ND	ND	ND	51100	260	297	7.0	V,S,P,M
01/08/98	FMETL	ND	ND	ND	ND	ND	1484	3.7	163	ND	V,S,P,M
04/07/98	FMETL	ND	ND	ND	ND	22	19280	287	ND	ND	V,S,P,M

32

Sampling Dates: 04/24/97 - 04/07/98

NOTES:

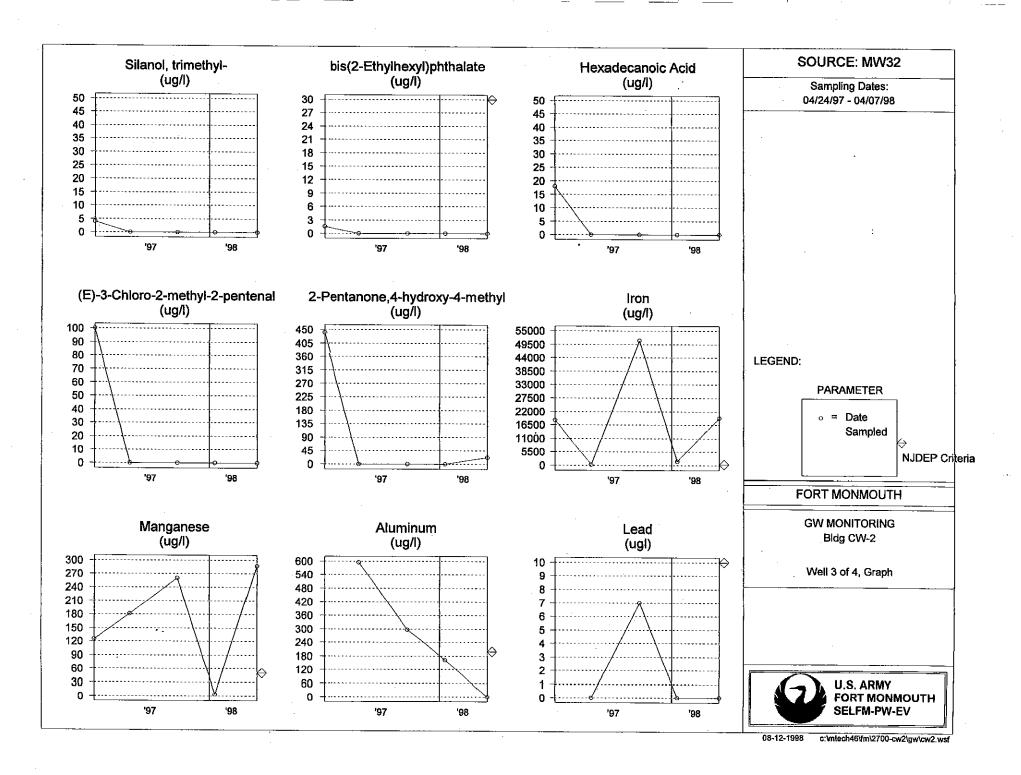
Page 1 of 2.

#### FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 3 of 4





	Lab	Depth to Water								Notes
Units:	-	Feet	 -	<u> </u>				<u> </u>	·	<u> </u>
NJDEP Criteria:	-	-					-	_		<del>                                     </del>
04/24/97	FMETL	6.65	 <del>"</del>				<del></del>		+	V,S,P,M
07/10/97	FMETL	7.20	 <u> </u>		<del></del>				<del></del>	V,S,P,M
10/22/97	FMETL	7.70			-				<del> </del>	V,S,P,M
01/08/98	FMETL	4.50	 <u> </u>	<del> </del>				<del> </del>	<del> </del>	V,S,P,M
04/07/98	FMETL	6.81	 † -				<del>-</del> -		<del> </del>	V,S,P,M

SOL	IRC	E. V	MΛΛΙ	32
	"	L. I	11 V V .	

Sampling Dates: 04/24/97 - 04/07/98

NOTES:

Page 2 of 2.

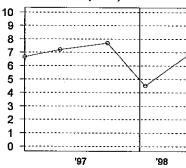
#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 3 of 4



Depth to Water (Feet)



SOURCE: MW32

Sampling Dates: 04/24/97 - 04/07/98

LEGEND:

**PARAMETER** 

DateSampled

NJDEP Criteria

FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 3 of 4, Graph



	Lab	Silanol, ( trimethyl-	E)-3-Chloro 2-methyl- 2-pentenai	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ugl	Feet	
NJDEP Criteria:	-	NLE	NLE	300	50	200	8	10	-	
04/24/97	FMETL	30	41	88600	424	-	4	-	8.95	V,S,P,M
07/10/97	FMETL	ND	ND	10260	519	2.1	1.0	ND	9.10	V,S,P,M
10/22/97	FMETL	ND	ND	26800	151	94	ND	4.0	9.10	V,S,P,M
01/08/98	FMETL	ND	ND	104700	342	217	6.0	4.0	9.00	V,S,P,M
04/07/98	FMETL	ND	ND	19780	110	119	3.4	ND	9.50	V,S,P,M

SOURCE: MW33	
Sampling Dates:	
04/24/97 - 04/07/98	

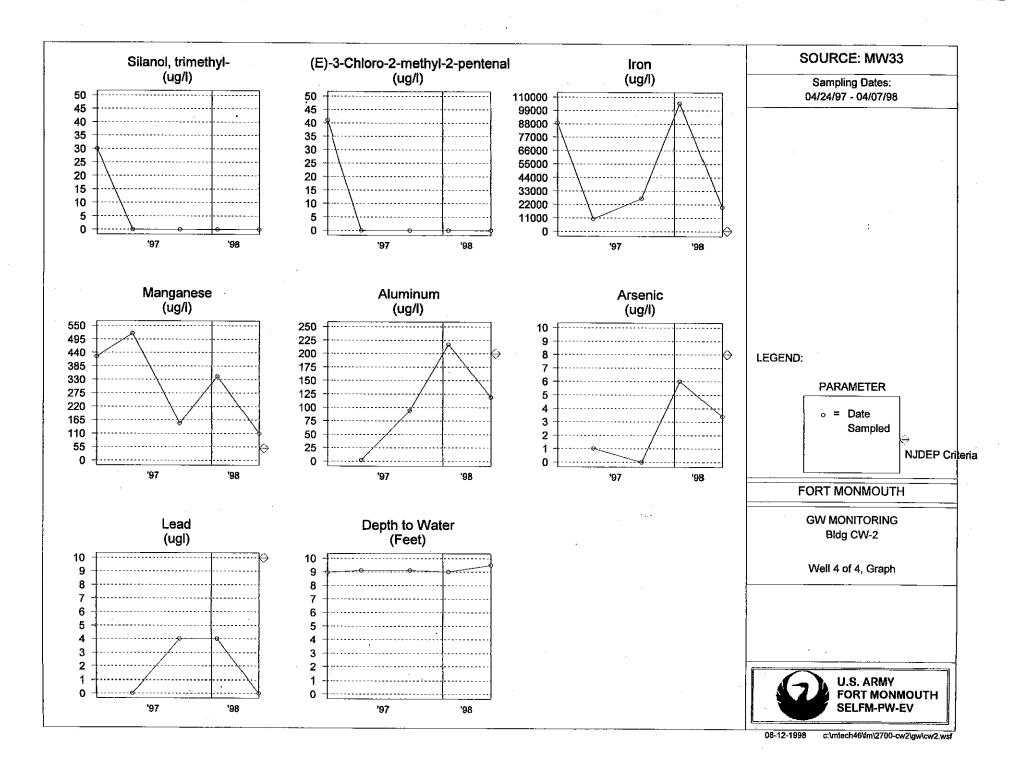
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 4 of 4





# FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

#### DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-3484

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



### ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

#### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL 1D#	SAMPLE DATE
3723.03	MW-30	29-32594	07/14/98
3723.04	MW-31	29-32595	07/14/98
3723.05	MW-32	29-32596	07/14/98
3723.06	MW-33	29-32597	07/14/98

NJDEP Laboratory Certification # 13461

Daniel Wright

Date:

Laboratory Director

## METHODOLOGY SUMMARY

PARAMETER	REFERENCE				
TARGET ANALYTE LIST	Standard Methods, 18th ed.				
METALS					
Aluminum	3120B				
Antimony	3120B				
Arsenic	3120B				
Barium	3120B				
Beryllium	3120B				
Cadmium	3120B				
Calcium	3120B				
Chromium	3120B				
Cobalt	3120B				
Copper	3120B				
Iron	3120B				
Lead	3120B				
Magnesium	3120B				
Manganese	3120B				
Mercury	3112B				
Nickel	3120B				
Potassium	3120B				
Selenium	3120B				
Silver	3120B				
Sodium	3120B				
Thallium	3120B				
Vanadium	3120B				
Zinc	3120B				

PARAMETER PARAMETER	REFERENCE
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136
ORGANICS	Appendix A
Base/Neutral and Acid	625
Extractables by GC/MS	
Purgeable Organics by	624
GC/MS	
Pesticide and PCB by GC	608

## Fort Monmouth Environmental Testing Laboratory

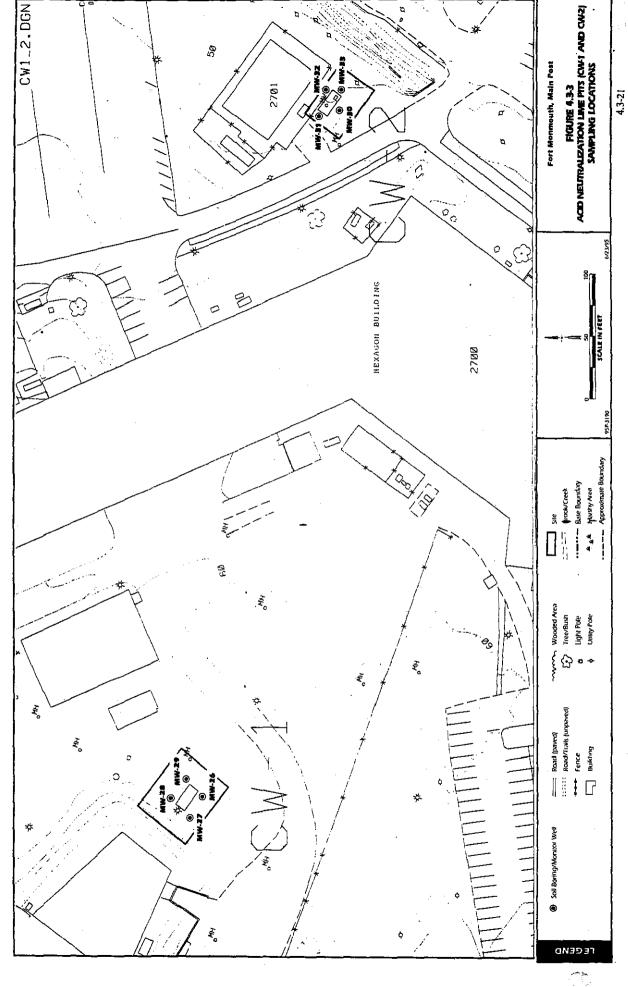
Bidg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

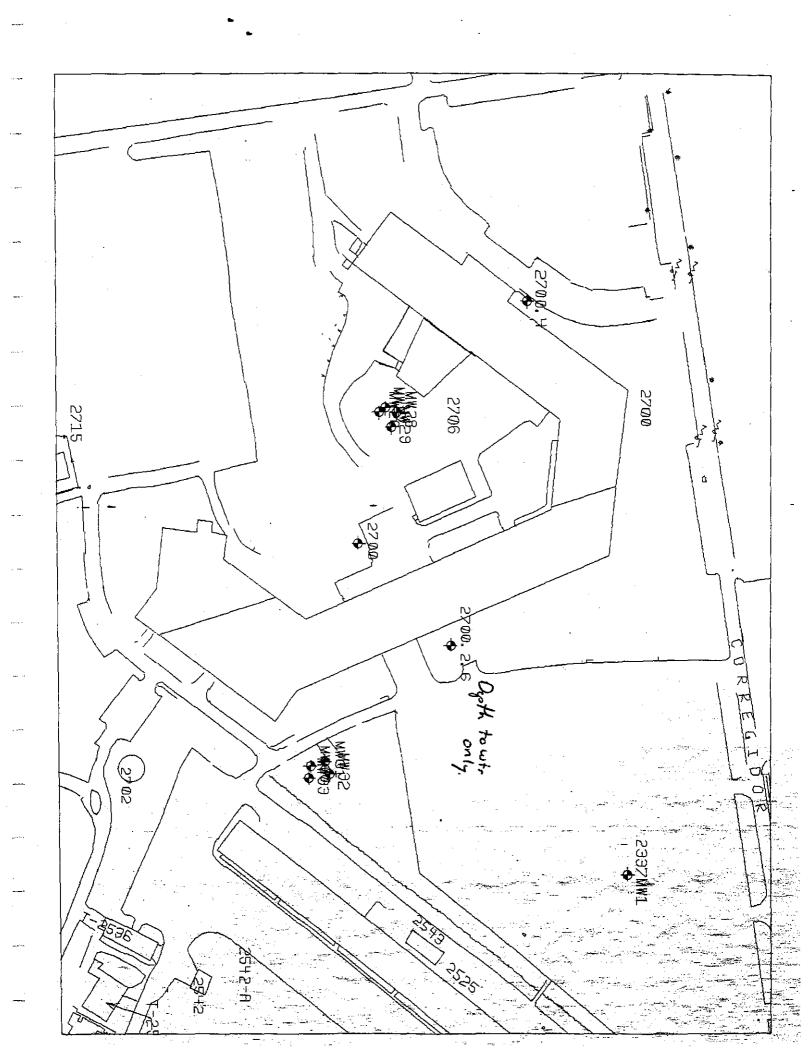
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: J.	Allon	Project No:						Ana	lysis l	Param	eters	Analysis Parameters			
Phone #: X2106	123	Location: ¿	W-267	100) M	Ws	Va	Ŋ	80	TAL Metals				T T		
(JDERA ( )OMA	( )Other:					VOA TIS	BNA+25	Pest/PeB	5				3		
Samplers Name / Co	mpany: Cores Mc	formack.	TVS	Sample	#	2	ΛA	15	7				13	HU/HNO3/24°C	
Lab Sample I.D.	Sample Location	Date	Time	Туре	bottles	>	8	a.	F	3 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (			H	Remarks / Preservation Method	
3723.01	Trip Blank	7/4/98	0710	Ag	2	/									
.02	Field Blank		0945	0	5				1					well ID#	
.03	MW-30'		1110'		5		~		-					0.0 ppm 29-32594 1.6 ppm 29-32593 2 ppm 29-32596 1.3 ppm 29-32597	
.04	mw-31		1041		5	<u></u>	/	~	~				V	1.6 pm 29-32597	
, 05	MW-32		1028		5	1	~	v	0-				V-	B pm 29-32596	
.06	mw-33		1154		5	V	سمنا	V	-				V	1.3 pm 29-32597	
07	Field Dupe	<b>—</b>		•	5	1	V	V	V					,,	
 				ı										:	
														Depth to water	
														2700 My - Ctr 5 2700.2	
														MW-DI	
							, ·						<u> </u>	13,57 ft	
Relinquished by (signature): Date/Time: Received by (signature): Receiv				Relin	quished	by (sig	nature):		Date/	Time:	Recei	ved by (	(signature):		
Relinquished by (signatur		Refinquished by (signature): Date/Time: Received by (signature):					(signature);								
Report Type: ()Full, ()	Reduced, (Standard, ()Screen	n / non-certified		ŀ		Rema	rks:								
Turnaround time: ( Stand	dard 4 wks, ()Rush Days,	()ASAP Ver	bal Hrs.	<u> </u>		<u> </u>				<del></del>					





LOCATION: CW-2

MW#: 30

NJDEP ID #: 29-32594 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 7 / 14 / 98

WEATHER: SUNNY, WARM, BREEZY

ELEV. OF CASING SURVEY MARK: 51.71 ft

DEPTH TO WATER: 6.89

ft

17.91 DEPTH OF WELL: ft

HEIGHT OF WATER: 11.02

(11.02) X .65 X 3 = 21.48

GALLONS OF H2O TO BE PURGED: 22

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.19 gpm

Hnu READING: 0.0 ppm

PURGE START TIME: 0919

pH 6.57 TEMP 20.9 su °C

DISSOLVED 02 4.06 SPECIFIC CONDUCTIVITY ppm 80 us/cm

PURGE END TIME: 1110

pH 6.16 TEMP  $^{\circ}C$ 18.3

DISSOLVED 02 3.66 ppm SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: (SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ®

BAILER)

TOTAL VOLUME PURGED: 22 gal

pH 6.32 TEMP 18.0  $^{\circ}C$ 

DISSOLVED 02 3.26 ppm SPECIFIC CONDUCTIVITY 80 us/cm

COMMENTS: DUPE HERE. DARK TINGE TO WATER.

LOCATION: CW-2

MW#: 31

NJDEP ID #: 29-32595 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 7 / 14 / 98

WEATHER: SUNNY, WARM, BREEZY

ELEV. OF CASING SURVEY MARK: 51.58 ft

**DEPTH TO WATER:** 6.71

16.86 DEPTH OF WELL: ft

HEIGHT OF WATER: 10.15

(10.15) X .65 X 3 = 19.79

GALLONS OF H2O TO BE PURGED: 20

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

ft

PURGE RATE: 0.22 gpm

Hnu READING: 1.6 ppm

PURGE START TIME: 0911

pH 6.08 su TEMP 19.8  $^{\circ}C$ 

DISSOLVED 02 3.66 ppm SPECIFIC CONDUCTIVITY 80 us/cm

PURGE END TIME: 1041

pH 6.24 19.4  $^{\circ}C$ su TEMP

DISSOLVED 02 SPECIFIC CONDUCTIVITY 3.26 ppm 79 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: ft (SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ®

BAILER)

TOTAL VOLUME PURGED: 20 gal

pH 6.14 TEMP 19.2 °C

DISSOLVED 02 SPECIFIC CONDUCTIVITY 3.26 ppm 79 us/cm

COMMENTS: RUSTY COLOR

LOCATION: CW-2

MW#: 32

NJDEP ID #: 29-32596 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 7 / 14 / 98

WEATHER: SUNNY, WARM, BREEZY

ELEV. OF CASING SURVEY MARK: 51.38

**DEPTH TO WATER:** 7.06

DEPTH OF WELL: 16.86 ft

HEIGHT OF WATER: 9.80

ft

ft

(9.80) X .65 X 3 = 19.11

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.22

gpm

Hnu READING: 0.3

ppm

PURGE START TIME: 0902

pH 6.32

su

TEMP 20.2 °C

**DISSOLVED 02** 

3.86

ppm

SPECIFIC CONDUCTIVITY

79 us/cm

PURGE END TIME: 1028

pH 6.14

su

**TEMP** 19.8 °C

DISSOLVED O2 3.56

ppm

SPECIFIC CONDUCTIVITY

78 `us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING:

(SAMPLING METHOD: DEDICATED( LAW NJDEP FSPM 1992) TEFLON ®

BAILER)

TOTAL VOLUME PURGED:

19

gal

pH 6.06

TEMP 19.6  $^{\circ}C$ 

DISSOLVED 02

3.56

ppm

SPECIFIC CONDUCTIVITY

79

us/cm

COMMENTS: LIGHT RUST TINGE

LOCATION: CW-2

MW#: 33

NJDEP ID #: 29-32597 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 7 / 14 / 98

WEATHER: SUNNY, WARM, BREEZY

ELEV. OF CASING SURVEY MARK: 51.09 ft

DEPTH TO WATER: 9.09 ft

DEPTH OF WELL: 16.04 ft

HEIGHT OF WATER: 6.95 ft

(6.95) X .65 X 3 = 13.55

GALLONS OF H2O TO BE PURGED: 14 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.07 gpm Hnu READING: 1.3 ppm

PURGE START TIME: 0845

pH 5.21 su TEMP 20.4 °C

DISSOLVED O2 3.66 ppm SPECIFIC CONDUCTIVITY 80 us/cm

PURGE END TIME:

pH 5.98 su TEMP 19.7 °C

DISSOLVED O2 3,36 ppm SPECIFIC CONDUCTIVITY 80 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.17 ft (SAMPLING METHOD: DEDICATED( LAW NJDEP FSPM 1992) TEFLON ®

BAILER)

TOTAL VOLUME PURGED: 14 gal

pH 5.92 su TEMP 19.3 °C

DISSOLVED O2 3.26 ppm SPECIFIC CONDUCTIVITY 80 us/cm

COMMENTS:

## **CASE NARRATIVE**

Bldg. CW-2 3723

Site: Lab ID:

The duplicate analysis was performed on MW-30 (3723.03).

## US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEPE # 13461

### **Definition of Qualifiers**

MDL: Method Detection Limit

J : Compound identified below detection limit

B : Compound in both sample and blank

D : Results from dilution of sample

U : Compound searched for but not detected

Data File Nam vb00964.d

Skelton

Sample Name

VBLK27 VBLK27

Operator Date Acquired 17 Jul 1998 11:22 am Field ID Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein	]	Response	not detected	50	6.25 ug/L	Quantite
107131	Acrylonitrile	i	-	not detected	50	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
100203	Dichlorodifluoromethan			not detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	***
75-01-4	Vinyl Chloride	<b>-</b>		not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene		<del></del>	not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	0.74 ug/L 1.57 ug/L	
75-15-0	Carbon Disulfide	_		not detected	nle	0.54 ug/L	
75-13-0	Methylene Chloride		<del></del>	not detected	2		
156-60-5				not detected		1.66 ug/L	
75-35-3	trans-1,2-Dichloroethene 1,1-Dichloroethane				100	0.50 ug/L	
				not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate	-		not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
(5.66.0	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform			not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 บฐ/โ	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	11	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	1.05 ug/L	
	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	1.33 ug/L	
108-88-3	Toluene			not_detected	1000	0.73 ug/L	
	trans-1,3-Dichloroprope			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
591-78-6	2-Hexanone			not detected	nle	1.12 ug/L	
126-48-1	Dibromochloromethane			not detected	10	1.36 ug/L	
108-90-7	Chlorobenzene			not detected	. 4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	2.53 ug/L	
1330-20-7	o-Xylene			not detected	nle	1.92 ug/L	
100-42-5	Styrene			not detected	100	1.57 ug/L	
75-25-2	Bromoform			not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	1.71 ug/L	-
541-73-1	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam vb00983.d

Sample Name

3723.01

Operator

Skelton

Field ID

Trip Blank

Date Acquired 18 Jul 1998 1:59 am

Sample Multiplier

Regulatory . Level Compound Name Result MDL CAS# R.T. Response (ug/l)\* Qualifier not detected 50 107028 Acrolein 6.25 ug/L 107131 Acrylonitrile not detected 50 6.25 ug/L 75650 tert-Butyl alcohol not detected nle 12.50 ug/L 1634044 Methyl-tert-Butyl ether not detected 2.50 ug/L nle 108203 Di-isopropyl ether not detected nle 1.25 ug/L Dichlorodifluoromethan not detected nle 3.63 ug/L not detected 30 0.79 ug/L 74-87-3 Chloromethane not detected 5 75-01-4 Vinyl Chloride 2.61 ug/L 10 1.45 ug/L 74-83-9 not detected Bromomethane 75-00-3 Chloroethane not detected nle 2.20 ug/L not detected 1.31 ug/L 75-69-4 Trichlorofluoromethane nle 75-35-4 1.1-Dichloroethene not detected 2 0.74 ug/L 1.57 ug/L 67-64-1 Acetone not detected 700 75-15-0 Carbon Disulfide not detected nle 0.54 ug/L 75-09-2 Methylene Chloride not detected 1.66 ug/L 2 trans-1,2-Dichloroethene not detected 100 0.50 ug/L 156-60-5 75-35-3 1,1-Dichloroethane not detected 70 0.83 ug/L 108-05-4 not detected 2.07 ug/L Vinyl Acetate nle 300 78-93-3 2-Butanone not detected 2.06 ug/L cis-1,2-Dichloroethene not detected 10 0.65 ug/L 67-66-3 Chloroform not detected 6 0.43 ug/L 75-55-6 1,1,1-Trichloroethane not detected 30 0.81 ug/L 1.20 ug/L 56-23-5 Carbon Tetrachloride not detected 2 71-43-2 not detected 0.51 ug/L Benzene 107-06-2 1,2-Dichloroethane not detected 2 1.27 ug/L 0.94 ug/L 79-01-6 Trichloroethene not detected 1 78-87-5 not detected 1 0.78 ug/L 1,2-Dichloropropane 75-27-4 Bromodichloromethane not detected 1 0.77 ug/L 1.05 ug/L 110-75-8 nle 2-Chloroethyl vinyl ethe not detected 10061-01-5 cis-1,3-Dichloropropene not detected nle 0.60 ug/L 400 108-10-1 4-Methyl-2-Pentanone not detected 1.33 ug/L 108-88-3 Toluene not detected 1000 0.73 ug/L 10061-02-6 trans-1,3-Dichloroprope not detected 1.43 ug/L nle 79-00-5 1,1,2-Trichloroethane not detected 1.49 ug/L 127-18-4 Tetrachloroethene 0.92 ug/L not detected 591-78-6 2-Hexanone not detected nle 1.12 ug/L Dibromochloromethane 126-48-1 not detected 10 1.36 ug/L 108-90-7 Chlorobenzene not detected 4 0.66 ug/L 100-41-4 Ethylbenzene not detected 700 1.14 ug/L 1330-20-7 m+p-Xylenes not detected nle 2.53 ug/L 1330-20-7 o-Xylene not detected nle 1.92 ug/L 100-42-5 Styrene not detected 100 1.57 ug/L 75-25-2 Bromoform not detected 4 1.68 ug/L 79-34-5 1,1,2,2-Tetrachioroethan not detected 2 1.71 ug/L 541-73-1 1,3-Dichlorobenzene not detected 600 2.51 ug/L 106-46-7 1,4-Dichlorobenzene not detected 75 3.08 ug/L

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

1,2-Dichlorobenzene

95-50-1

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam vb00984.d

Sample Name

3723.02

Operator

Skelton

Field ID

Field Blank

Date Acquired 18 Jul 1998 2:43 am

Sample Multiplier

Regulatory Level Compound Name R.T. Response Result (ug/I)\* MDL CAS# Qualifier 107028 Acrolein not detected 50 6.25 ug/L 107131 Acrylonitrile not detected 50 6.25 ug/L not detected 12.50 ug/L 75650 tert-Butyl alcohol nle 1634044 Methyl-tert-Butyl ether not detected nle 2.50 ug/L not detected 1.25 ug/L 108203 Di-isopropyl ether nle Dichlorodifluoromethan not detected 3.63 ug/L nle 74-87-3 Chloromethane not detected 30 0.79 ug/L not detected 5 2.61 ug/L 75-01-4 Vinyl Chloride 10 74-83-9 Bromomethane not detected 1.45 ug/L Chloroethane not detected 2.20 ug/L 75-00-3 nle 75-69-4 not detected 1.31 ug/L Trichlorofluoromethane nle 75-35**-**4 1,1-Dichloroethene not detected 0.74 ug/L not detected 700 1.57 ug/L 67-64-1 Acetone Carbon Disulfide not detected 0.54 ug/L 75-15-0 nle 75-09-2 Methylene Chloride not detected 2 1.66 ug/L 0.50 ug/L trans-1,2-Dichloroethene not detected 100 156-60-5 70 0.83 ug/L 75-35-3 1,1-Dichloroethane not detected 2.07 ug/L 108-05-4 not detected nle Vinyl Acetate 78-93-3 not detected 300 2.06 ug/L 2-Butanone cis-1,2-Dichloroethene not detected 10 0.65 ug/L 0.43 ug/L 67-66-3 Chloroform not detected 6 75-55-6 1,1,1-Trichloroethane not detected 30 0.81 ug/L 56-23-5 Carbon Tetrachloride not detected 2 1.20 ug/L 71-43-2 not detected 0.51 ug/L Benzene 107-06-2 1,2-Dichloroethane not detected 2 1.27 ug/L 79-01-6 not detected 0.94 ug/L Trichloroethene 1 78-87-5 not detected 1 0.78 ug/L 1,2-Dichloropropane 75-27-4 Bromodichloromethane not detected 1 0.77 ug/L 110-75-8 2-Chloroethyl vinyl ethe not detected nle 1.05 ug/L 10061-01-5 cis-1,3-Dichloropropene not detected nle 0.60 ug/L 4-Methyl-2-Pentanone not detected 400 108-10-1 1.33 ug/L 108-88-3 Toluene not detected 1000 0.73 ug/L 10061-02-6 trans-1,3-Dichloroprope not detected 1.43 ug/L nle 79-00-5 1,1,2-Trichloroethane not detected 1.49 ug/L 127-18-4 Tetrachloroethene 0.92 ug/L not detected 591-78-6 2-Hexanone not detected nle 1.12 ug/L 126-48-1 Dibromochloromethane not detected 10 1.36 ug/L 108-90-7 Chlorobenzene not detected 4 0.66 ug/L 100-41-4 Ethylbenzene not detected 700 1.14 ug/L 1330-20-7 m+p-Xylenes not detected nle 2.53 ug/L 1330-20-7 o-Xvlene not detected nle 1.92 ug/L 100-42-5 Styrene not detected 100 1.57 ug/L 75-25-2 Bromoform not detected 4 1.68 ug/L 1,1,2,2-Tetrachloroethan 79-34-5 not detected 2 1.71 ug/L 541-73-1 1,3-Dichlorobenzene not detected 600 2.51 ug/L 106-46-7 1,4-Dichlorobenzene not detected 75 3.08 ug/L

not detected 600 2.75 ug/L

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

1,2-Dichlorobenzene

95-50-1

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam vb00985.d

Sample Name

3723.03

Operator

Skelton

Field ID

MW30

Date Acquired 18 Jul 1998 3:28 am

Sample Multiplier

Regulatory Level Compound Name CAS# R.T. Response Result (ug/l)\* MDL Qualifier 107028 Acrolein not detected 50 6.25 ug/L Acrylonitrile 107131 not detected 50 6.25 ug/L 75650 tert-Butyl alcohol not detected 12.50 ug/L nle 2.50 ug/L 1634044 Methyl-tert-Butyl ether not detected nle 108203 Di-isopropyl ether not detected 1.25 ug/L nle Dichlorodifluoromethan not detected 3.63 ug/L nle 74-87-3 Chloromethane not detected 30 0.79 ug/L 75-01-4 Vinyl Chloride not detected 2.61 ug/L 74-83-9 Bromomethane 10 not detected 1.45 ug/L 75-00-3 Chloroethane not detected nle 2.20 ug/L 75-69-4 Trichlorofluoromethane not detected 1.31 ug/L nle 75-35-4 1,1-Dichloroethene not detected 2 0.74 ug/L 67-64-1 10.51 48170 9.84 ug/L 700 1.57 ug/L Acetone 75-15-0 Carbon Disulfide 0.54 ug/L not detected nle 75-09-2 Methylene Chloride not detected 2 1.66 ug/L 156-60-5 trans-1,2-Dichloroethene not detected 100 0.50 ug/L 75-35-3 1,1-Dichloroethane not detected 70 0.83 ug/L 108-05-4 Vinyl Acetate not detected nle 2.07 ug/L 78-93-3 2-Butanone not detected 300 2.06 ug/L cis-1,2-Dichloroethene not detected 10 0.65 ug/L 67-66-3 Chloroform not detected 6 0.43 ug/L 75-55-6 1,1,1-Trichloroethane not detected 30 0.81 ug/L 56-23-5 Carbon Tetrachloride not detected 2 1.20 ug/L 71-43-2 not detected 0.51 ug/L Benzene 107-06-2 1,2-Dichloroethane not detected 2 1.27 ug/L 79-01-6 Trichloroethene not detected 0.94 ug/L 78-87-5 1,2-Dichloropropane not detected 1 0.78 ug/L 75-27-4 Bromodichloromethane not detected 1 0.77 ug/L 110-75-8 2-Chloroethyl vinyl ethe not detected nle 1.05 ug/L 10061-01-5 cis-1,3-Dichloropropene not detected nle 0.60 ug/L 4-Methyl-2-Pentanone 108-10-1 not detected 400 1.33 ug/L 108-88-3 Toluene not detected 1000 0.73 ug/L 10061-02-6 trans-1,3-Dichloroprope not detected 1.43 ug/L nle 79-00-5 1,1,2-Trichloroethane not detected 1.49 ug/L 127-18-4 Tetrachloroethene not detected 1 0.92 ug/L 591-78-6 2-Hexanone not detected 1.12 ug/L nie 126-48-1 Dibromochloromethane not detected 10 1.36 ug/L 108-90-7 Chlorobenzene not detected 4 0.66 ug/L 100-41-4 Ethylbenzene 700 not detected 1.14 ug/L 1330-20-7 m+p-Xylenes not detected nle 2.53 ug/L 1330-20-7 o-Xylene not detected nle 1.92 ug/L 100-42-5 Styrene not detected 100 1.57 ug/L 75-25-2 Bromoform not detected 4 1.68 ug/L 79-34-5 1,1,2,2-Tetrachloroethan not detected 1.71 ug/L 541-73-1 1,3-Dichlorobenzene not detected 600 2.51 ug/L 106-46-7 1,4-Dichlorobenzene not detected 75 3.08 ug/L 95-50-1 1.2-Dichlorobenzene not detected

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

600

2.75 ug/L

NLE = No Limit Established

Data File Nam vb00986.d

Sample Name

3723.04

Operator

Skelton

Field ID

MW31

Date Acquired 18 Jul 1998 4:12 am

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	6.25 ug/L	
107131	Acrylonitrile			not detected	50	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	nle	12.50 ug/L	•
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not detected	nle	1.25 ug/L	
	Dichlorodifluoromethan			not detected	nle.	3.63 ug/L	
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1,45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane		·	not detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.74 ug/L	
67-64-1	Acetone			not detected	700	1.57 ug/L	
75-15 <b>-</b> 0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.50 ug/L	· · · · · · · · · · · · · · · · · · ·
75-35-3	1,1-Dichloroethane		*	not detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	2.07 ug/L	
78-93-3	2-Butanone			not detected	300	2.06 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.65 ug/L	
67-66-3	Chloroform		-"	not detected	6	0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.81 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	1.20 ug/L	
71-43-2	Benzene			not detected	1	0.51 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	1.27 ug/L	
79-01-6	Trichloroethene			not detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	1.05 ug/L	
	cis-1,3-Dichloropropene			not detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone	1		not detected	400	1.33 ug/L	
108-88-3	Toluene	i		not detected	1000	0.73 ug/L	
	trans-1,3-Dichloroprope			not detected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.92 ug/L	
	2-Hexanone			not detected	nle	1.12 ug/L	
	Dibromochloromethane		· · · · · ·	not detected	10	1.36 ug/L	-
108-90-7	Chlorobenzene			not detected	4	0.66 ug/L	
100-41-4	Ethylbenzene			not detected	700	1.14 ug/L	
	m+p-Xylenes			not detected	nle	2.53 ug/L	
	o-Xylene			not detected	nle	1.92 ug/L	
	Styrene		1	not detected	100	1.57 ug/L	
	Bromoform		77 117-22	not detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	1.71 ug/L	
	1,3-Dichlorobenzene			not detected	600	2.51 ug/L	
	1,4-Dichlorobenzene			not detected	75	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.75 ug/L	
		* TT: -1				~., ~ ue/11	

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam vb00987.d

Sample Name

3723.05

Operator

Skelton

Field ID

MW32

Date Acquired 18 Jul 1998 4:56 am

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	L 50	6.25 ug/L	
107131	Acrylonitrile			not detected	l 50	6.25 ug/L	
75650	tert-Butyl alcohol			not detected	l nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	2.50 ug/L	
108203	Di-isopropyl ether		<del></del>	not detected	nle	1.25 ug/L	
10020	Dichlorodifluoromethan			not detected	nle nle	3.63 ug/L	·
74-87-3	Chloromethane			not detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not detected	5	2.61 ug/L	
74-83-9	Bromomethane			not detected	10	1.45 ug/L	
75-00-3	Chloroethane			not detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	1.31 ug/L	
75-35-4	1.1-Dichloroethene			not detected		0.74 ug/L	
67-64-1	Acetone	10.50	33445	7.02 ug/L	700	1.57 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride			not detected		1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected		0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected		0.83 ug/L	
108-05-4	Vinyl Acetate			not detected		2.07 ug/L	·
78-93-3	2-Butanone			not detected		2.06 ug/L	
/8-93-3	cis-1,2-Dichloroethene			not detected		0.65 ug/L	
67-66-3	Chloroform			not detected		0.43 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected		0.43 ug/L	
				not detected		1.20 ug/L	
56-23-5	Carbon Tetrachloride			not detected		0.51 ug/L	<del></del>
71-43-2	Benzene			not detected		1.27 ug/L	
107-06-2	1,2-Dichloroethane Trichloroethene			not detected		0.94 ug/L	
79-01-6				not detected		0.78 ug/L	
78-87-5	1,2-Dichloropropane Bromodichloromethane	-		not detected		0.73 ug/L	
75-27-4				not detected		1.05 ug/L	
110-75-8 10061-01-5	2-Chloroethyl vinyl ethe cis-1,3-Dichloropropene			not detected		0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected		1.33 ug/L	
	Toluene			not detected		0.73 ug/L	
108-88-3	trans-1,3-Dichloroprope			not detected		1.43 ug/L	
	1,1,2-Trichloroethane			not detected		1.49 ug/L	***
79-00-5 127-18-4	Tetrachloroethene			not detected		0.92 ug/L	·············
591-78-6	2-Hexanone	$\longrightarrow$		not detected		1.12 ug/L	
1	Dibromochloromethane			not detected		1.12 ug/L 1.36 ug/L	. :
108-90-7				not detected		0.66 ug/L	
	Chlorobenzene Ethylhonzone			not detected		1.14 ug/L	
100-41-4	Ethylbenzene			not detected		2.53 ug/L	
	m+p-Xylenes			not detected		2.33 ug/L 1.92 ug/L	
1330-20-7	o-Xylene						
100-42-5	Styrene			not detected		1.57 ug/L	
	Bromoform			not detected not detected		1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan	-				1.71 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected		2.51 ug/L	
	1,4-Dichlorobenzene					3.08 ug/L	
95-50-1	1,2-Dichlorobenzene	+ 77' 1	CTOTAL	not detected		2.75 ug/L	

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam vb00988.d

Sample Name

3723.06

Operator

Skelton

Field ID

MW33

Date Acquired 18 Jul 1998 5:40 am

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result		Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein		*	not	detected	50	6.25 ug/L	
107131	Acrylonitrile			not	detected	50	6.25 ug/L	
75650	tert-Butyl alcohol			not	detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not	detected	nle	2.50 ug/L	
108203	Di-isopropyl ether			not	detected	nle	1.25 ug/L	
	Dichlorodifluoromethan			not	detected	nle	3.63 ug/L	
74-87-3	Chloromethane			not	detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride			not	detected	5	2.61 ug/L	
74-83-9	Bromomethane			not	detected	10	1.45 ug/L	
75-00-3	Chloroethane			not	detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane			not	detected	nle	1.31 ug/L	
75-35-4	1,1-Dichloroethene				detected	2	0.74 ug/L	
67-64-1	Acetone				detected	700	1.57 ug/L	
75-15-0	Carbon Disulfide				detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride				detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene		·· ·· —		detected	100	0.50 ug/L	
75-35-3	1,1-Dichloroethane				detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate				detected	nle	2.07 ug/L	
78-93-3	2-Butanone				detected	300	2.06 ug/L	
/8-93-3	cis-1,2-Dichloroethene				detected	10	0.65 ug/L	
67.66.2	Chloroform				detected	6	0.43 ug/L	
67-66-3	1,1,1-Trichloroethane				detected	30	0.43 ug/L 0.81 ug/L	
75-55-6		<del></del>			detected	2	1.20 ug/L	
56-23-5	Carbon Tetrachloride				detected	1	0.51 ug/L	
71-43-2	Benzene	<del></del>			detected			
107-06-2	1,2-Dichloroethane				detected	1	1.27 ug/L	
79-01-6	Trichloroethene				detected	1	0.94 ug/L	
78-87-5	1,2-Dichloropropane				detected	1	0.78 ug/L	
75-27-4	Bromodichloromethane				_		0.77 ug/L	
110-75-8	2-Chloroethyl vinyl ethe				detected	nle	1.05 ug/L	
	cis-1,3-Dichloropropene				detected	nle	0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone				detected	400	1.33 ug/L	
108-88-3	Toluene				ietected	1000	0.73 ug/L	
	trans-1,3-Dichloroprope				letected letected	nle	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane					3	1.49_ug/L	
127-18-4	Tetrachloroethene		<del> </del>		letected	1	0.92 ug/L	
591-78-6	2-Hexanone	1			letected	nle	1.12 ug/L	
	Dibromochloromethane				letected	10	1.36 ug/L	
108-90-7	Chlorobenzene				letected	4 700	0.66 ug/L	
100-41-4	Ethylbenzene				letected	700	1.14 ug/L	
1330-20-7	m+p-Xylenes				letected	nle	2,53 ug/L	· 
1330-20-7	o-Xylene				letected	nle	1.92 ug/L	
100-42-5	Styrene				letected	100	1.57 ug/L	
75-25-2	Bromoform				letected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan				letected	2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene				letected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			<del></del>	letected	75	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not c	letected	600	2.75 ug/L	

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

Data File Nam VB00989.D

Sample Name

3723.07

Operator

Skelton

Field ID

Field Dupe

Date Acquired 18 Jul 1998 6:25 am

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result		Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			<del>,</del>	detected	50	6.25 ug/L	
107131	Acrylonitrile			not	detected	50	6.25 ug/L	
75650	tert-Butyl alcohol				detected	nle	12.50 ug/L	
1634044	Methyl-tert-Butyl ether			not	detected	nle	2.50 ug/L	
108203	Di-isopropyl ether				detected	nle	1.25 ug/L	
100205	Dichlorodifluoromethan				detected	nle	3.63 ug/L	
74-87-3	Chloromethane				detected	30	0.79 ug/L	
75-01-4	Vinyl Chloride				detected	5	2.61 ug/L	٠.
74-83-9	Bromomethane			not	detected	10	1.45 ug/L	
75-00-3	Chloroethane			not	detected	nle	2.20 ug/L	
75-69-4	Trichlorofluoromethane				detected	nle	1.31 ug/L	
75-35-4	1.1-Dichloroethene			not	detected	2	0.74 ug/L	
67-64-1	Acetone	10.54	33767		ug/L	700	1.57 ug/L	
75-15-0	Carbon Disulfide	10.0 (	5570.		detected	nle	0.54 ug/L	
75-09-2	Methylene Chloride				detected	2	1.66 ug/L	
156-60-5	trans-1,2-Dichloroethene				detected	100	0.50 ug/L	•
75-35-3	1.1-Dichloroethane				detected	70	0.83 ug/L	
108-05-4	Vinyl Acetate				detected	nle	2.07 ug/L	
78-93 <b>-</b> 3	2-Butanone				detected	300	2.06 ug/L	
10-33-3	cis-1,2-Dichloroethene				detected	10	0.65 ug/L	
67.66.3	Chloroform				detected	6	0.43 ug/L	
67-66-3 75-55-6	1.1.1-Trichloroethane	-			detected	30	0.43 ug/L	
	Carbon Tetrachloride				detected	2	1.20 ug/L	
56-23-5					detected	1	0.51 ug/L	
71-43-2	Benzene 1,2-Dichloroethane	-			detected	2	1.27 ug/L	
107-06-2		-			detected	1	0.94 ug/L	<del></del> -
79-01-6	Trichloroethene				detected	1		
78-87-5	1,2-Dichloropropane				detected	1 1	0.78 ug/L 0.77 ug/L	<del> </del>
75-27-4	Bromodichloromethane				detected	nle	1.05 ug/L	<del></del>
110-75-8	2-Chloroethyl vinyl ethe					nle		
10061-01-5	cis-1,3-Dichloropropene				detected		0.60 ug/L	
108-10-1	4-Methyl-2-Pentanone		-		detected	400	1.33 ug/L	
108-88-3	Toluene				detected	1000	0.73 ug/L	
	trans-1,3-Dichloroprope				detected	nle o	1.43 ug/L	
79-00-5	1,1,2-Trichloroethane				detected detected	3	1.49 ug/L	
127-18-4	Tetrachloroethene				detected	+	0.92 ug/L 1.12 ug/L	
591-78-6	2-Hexanone					nle		
126-48-1	Dibromochloromethane				detected	10	1.36 ug/L	
108-90-7	Chlorobenzene				detected	4 700	0.66 ug/L	
100-41-4	Ethylbenzene		·		detected	700	1.14 ug/L	
	m+p-Xylenes				detected	nle i	2.53 ug/L	
1330-20-7	o-Xylene				detected	nle	1.92 ug/L	
100-42-5	Styrene				detected	100	1.57 ug/L	
75-25-2	Bromoform				detected	4	1.68 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan				detected	. 2	1.71 ug/L	
541-73-1	1,3-Dichlorobenzene				detected	600	2.51 ug/L	
106-46-7	1,4-Dichlorobenzene			not	detected	75	3.08 ug/L	
95-50-1	1,2-Dichlorobenzene			not	detected	600	2.75 ug/L	

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

		IEMINI	MACEL IDENTIFIE	LD COM COMBC		VBLK	797
Lab Name:	FMETL			Project		VBL	
NJDEP#	13461	Ca	se No.: 3723	SDG No	Lo	cation <u>CW</u>	<i>l</i> -2
Matrix: (soil/	water)	WATER	_	Lab Sample	e ID:	VBLK27	
Sample wt/ve	ol:	5.0	(g/ml) ML	Lab File ID:	: '	VB00964.D	
Level: (low/r	med)	LOW	_	Date Recei	ved: _	07/14/98	
% Moisture:	not dec.			Date Analyz	zed: 🧵	07/17/98	
GC Column:	HP5M	S ID: 0.	25 (mm)	Dilution Fac	ctor:	1.0	
Soil Extract \	Volume:		(uL)	Soil Aliquot	Volur	ne:	(uL)
•			_	ONCENTRATION UN g/L or ug/Kg) UG			
Number TICs	s found:	0	<del></del>				<del>,</del>
CAS NO.		COMPOL	JND NAME	RT	ES	T. CONC.	Q

## **VOLATILE ORGANICS ANALYSIS DATA SHEET**

FIELD ID TENTATIVELY IDENTIFIED COMPOUNDS

RT

EST. CONC.

Q

			·				Tri	ip Blank	<b>、</b> [
Lab Name:	FMETL		·	Project					
NJDEP#	13461	Cas	se No.: 3723	SDG	No	_ Lo	cation	CW-2	
Matrix: (soil/v	water)	WATER	_	i	_ab Sample	ID:	3723.01		
Sample wt/vo	ol:	5.0	(g/ml) ML		ab File ID:		VB0098	3.D	
Level: (low/r	ned)	LOW	_	ו	Date Receiv	red:	07/14/98	3	•
% Moisture:	not dec.			[	Date Analyz	ed:	07/18/98	3	
GC Column:	HP5M	S ID: 0.2	25 (mm)	נ	Dilution Fac	tor:	1.0		
Soil Extract \	/olume:		_ (u <b>L</b> )	5	Soil Aliquot	Volu	me:		(uL)
				CONCENTR	ATION UNI	TS:			
Number TICs	s found:	0	_	(ug/L or ug/K	(g) UG/	L			
			<del></del>				-		

COMPOUND NAME

CAS NO.

## **VOLATILE ORGANICS ANALYSIS DATA SHEET**

### TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

		IEMIAN	VEET IDENT.		00.120		Fia	ld Blar	nk
Lab Name:	FMETL	<u>.                                  </u>		Project			1 16		<u>''</u>
NJDEP#	13461	Cas	se No.: 3723	SDG	No	Lo	cation	<u>CW-2</u>	
Matrix: (soil/	water)	WATER	_		Lab Sampl	e ID: 3	3723.02		
Sample wt/ve	ol:	5.0	(g/ml) ML		Lab File ID	: 1	VB0098	4.D	_
Level: (low/r	med)	LOW	_		Date Recei	ived: [	07/14/98	}	-u.
% Moisture:	not dec.				Date Analy	zed: (	07/18/98	}	<b></b>
GC Column:	HP5M	S ID: 0.2	25 (mm)		Dilution Fa	ctor: _	1.0		_
Soil Extract \	Volume:		_ (uL)		Soil Aliquo	t Volur	ne:		_ (uL)
				CONCENTE					
Number TICs	s found:	0	_	(ug/L or ug/l	(g) <u>UG</u>	3/L			
CAS NO.		COMPOU	IND NAME		RT	EST	r. cond	<b>3</b> .	Q

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL		Project		MW-3	0
NJDEP#	13461	Case No.: 372	SDG No	L	ocation <u>CW</u> -	2
Matrix: (soil/	water)	WATER	Lab	Sample ID:	3723.03	
Sample wt/v	ol:	5.0 (g/ml) Mi	Lab	File ID:	VB00985.D	
Level: (low/r	med)	LOW	Date	Received:	07/14/98	<u> </u>
% Moisture:	not dec.		Date	Analyzed:	07/18/98	
GC Column:	HP5M	S ID: 0.25 (mm)	Dilut	tion Factor:	1.0	
Soil Extract \	Volume:	(uL)	Soil	Aliquot Vol	ume:	(uL)
Number TICs	s found:	<u> </u>	CONCENTRATION (ug/L or ug/Kg)	ON UNITS: UG/L		
CAS NO.		COMPOUND NAME		RT ES	ST. CONC.	Q

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Project			10104-31	
NJDEP#	13461	Cas	e No.: <u>372</u>	SDG	No	Location	CW-2	
Matrix: (soil/	water)	WATER			Lab Sample	D: 3723.0	)4	
Sample wt/vol:		5.0 (g/ml) ML			Lab File ID:	VB009	VB00986.D	
Level: (low/med)		LOW			Date Receiv	/ed: <u>07/1</u> 4/	98	_
% Moisture:	not dec.				Date Analyz	zed: <u>07/1</u> 8/	98	_
GC Column:	HP5M	S ID: 0.2	5 (mm)	į	Dilution Fac	tor: 1.0	· • • • • • • • • • • • • • • • • • • •	_
Soil Extract Volume:			(uL) Soil Aliquot Volui			Volume:		_ (uL)
				CONCENTR	ATION UNI	ITS:		
Number TICs	s found:	0	(ug/L or ug/Kg) UG/L					
CAS NO.		COMPOU	ND NAME		RT	EST. CON	1C.	Q

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

<b>FIELD</b>	ID
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Lab Name:	FMETL	•	Project				IVIVV-32		
NJDEP#	13461	Case No.: 3723	SDG	No	Locati	on	CW-2		
Matrix: (soil/	water)	WATER	L	_ab Sample	ID: <u>372</u>	3.05			
Sample wt/ve	ol:	5.0 (g/ml) ML	L	ab File ID:	VB	00987	7.D		
Level: (low/r	ned)	LOW	. [	Date Receive	ed: <u>07/</u>	14/98	_		
% Moisture:	not dec.		1	Date Analyze	ed: <u>07/</u>	18/98			
GC Column:	HP5M	S ID: <u>0.25</u> (mm)	. [	Dilution Fact	or: <u>1.0</u>				
Soil Extract \	Volume:	(uL)		Soil Aliquot \	/olume:			(uL)	
Number TICs	s found:	0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L						
CAS NO.		COMPOUND NAME		RT	EST. C	ONO	<b>;</b> .	Q	

## 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIFI D ID
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Lab Name:	FMETL			Project	[ IVI	VV-33
NJDEP#	13461	Case No.:	3723	SDG No	Location	CW-2
Matrix: (soil/	water)	WATER		Lab Samp	le ID: <u>3723.06</u>	
Sample wt/v	ol:	5.0 (g/ml	) <u>ML</u>	Lab File IC	): <u>VB00988</u>	.D
Level: (low/i	med)	LOW		Date Rece	ived: <u>07/14/98</u>	
% Moisture:	not dec.			Date Analy	zed: <u>07/18/98</u>	
GC Column:	HP5M	S ID: <u>0.25</u> (I	mm)	Dilution Fa	ctor: 1.0	
Soil Extract	Volume:	(uL)		Soil Aliquo	t Volume:	(uL)
				DICENTRATION UN		e.
Number TIC:	s found:	0	(ug	y/L or ug/Kg) <u>UC</u>	§/L 	
CAS NO.		COMPOUND NA	ME	RT	EST. CONC.	Q

#### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	IEL	D١	IC
F	IEL	D١	IC

Lab Name:	FMETL		Project		lu Dupe
NJDEP#	13461	Case No.: 3723	SDG No	Location	CW-2
Matrix: (soil/	water)	WATER	Lab Sample ID	: <u>3723.07</u>	
Sample wt/v	ol:	5.0 (g/ml) ML	Lab File ID:	VB00989	9.D
Level: (low/r	med)	LOW	Date Received	: 07/14/98	
% Moisture:	not dec.		Date Analyzed	: 07/18/98	
GC Column:	HP5M	S ID: <u>0.25</u> (mm)	Dilution Factor	: 1.0	
Soil Extract \	Volume:	(uL)	Soil Aliquot Vo	lume:	(uL)
			CONCENTRATION UNITS	:	
Number TICs	s found:	0(	ug/L or ug/Kg) UG/L	<del></del>	
CAS NO.		COMPOUND NAME	RT E	ST. CONC	. Q

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

bn2093.d

Sample Name

SBLK 104

Operator

FITZPATRICK

Misc Info

**SBLK 104** 

Date Acquired

17 Jul 98 7:35 pm

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	,	Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10		ug/L	
95-57-8	2-Chlorophenol		-	not detected	40	, -	ug/L	
541-73-1	1,3-Dichlorobenzene		•	not detected	600		ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75		ug/L	
100-51-6	Benzyl alcohol			not detected	NLE		ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600		ug/L	
	2-Methylphenol			not detected	NLE		ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	I	ug/L	
	4-Methylphenol			not detected	NLE		ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20		ug/L	
67-72-1	Hexachloroethane			not detected	10		ug/L	
98-95-3	Nitrobenzene			not detected	10		ug/L	
78-59-1	Isophorone			not detected	100	2.31		
88-75-5	2-Nitrophenol			not detected	NLE	1.72		
105-67-9	2,4-Dimethylphenol			not detected	100	2.42		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54		
120-83-2	2.4-Dichlorophenol			not detected	20	1.79		
65-85-0	Benzoic Acid			not detected	NLE	0.71		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58		
91-20-3	Naphthalene			not detected	NLE	3.03		
106-47-8	4-Chloroaniline			not detected	NLE	2.55		
87-68-3	Hexachlorobutadiene			not detected	1	0.64		
59-50-7	4-Chloro-3-methylphenol	i		not detected	NLE	1.46		
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49		
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59		
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66		
	2,4,5-Trichlorophenol			not detected	700	1.63		
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15		
88-74-4	2-Nitroaniline			not detected	NLE	1.62		
131-11-3	Dimethylphthalate			not detected		2.74	- 1	
208-96-8	Acenaphthylene				7000			
606-20-2	2,6-Dinitrotoluene	<del>-  </del>	·	not detected	NLE	2.35		
99-09-2	3-Nitroaniline			not detected not detected	NLE	1.54		
83-32-9	Acenaphthene				NLE	1.62		
	2,4-Dinitrophenol			not detected	400	1.98		
	Dibenzofuran			not detected	40	1.65		
	4-Nitrophenol	+		not detected not detected	NLE NLE	2.13 i		

## Semi-Volatile Analysis Report Page 2

Data File Name

bn2093.d

Operator

Date Acquired

FITZPATRICK 17 Jul 98 7:35 pm Sample Name

**SBLK 104** 

Misc Info

**SBLK 104** 

Sample Multiplier

						<del> </del>
121-14-2	2,4-Dinitrotoluene	not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate	not detected	5000	1.68	ug/L	
86-73-7	Fluorene	not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline	not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	20	1.73	ug/L	
103-33-3	Azobenzene	not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	NLE		ug/L	
118-74-1	Hexachlorobenzene	not detected	10		ug/L	
87-86-5	Pentachlorophenol	not detected	1	0.55	ug/L	
85-01-8	Phenanthrene	not detected	NLE		ug/L	
120-12-7	Anthracene	not detected	2000	i	ug/L	
84-74-2	Di-n-butylphthalate	not detected	900		ug/L	
206-44-0	Fluoranthene	not detected	300		ug/L	
92-87-5	Benzidine	not detected	50		ug/L	
129-00-0	Pyrene	not detected	200	1.02		
85-68-7	Butylbenzylphthalate	not detected	100	1.15		
56-55-3	Benzo[a]anthracene	not detected	10	1.57		
91-94-1	3,3'-Dichlorobenzidine	not detected	60	2.28		
218-01-9	Chrysene	not detected	20	2.32		
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	1.29		
117-84-0	Di-n-octylphthalate	not detected	100	1.30		
205-99-2	Benzo[b]fluoranthene	not detected	10	1.31		
207-08-9	Benzo[k]fluoranthene	not detected	2	1.57		
50-32-8	Benzo[a]pyrene	not detected	20	1.36		
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	1.22		
53-70-3	Dibenz[a,h]anthracene	not detected	20	3.12		
191-24-2	Benzo[g,h,i]perylene	not detected	NLE	1.13		**-

### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

bn2095.d

Sample Name

3723.02

Operator

FITZPATRICK

Misc Info

FIELD BLANK

Date Acquired

17 Jul 98 9:15 pm "

Sample Multiplier

CAS#	Name	R.T	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	_20.	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	i
108-95-2	Phenoi			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
Ţ	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96	ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45	uġ/L	-
78-59-1	Isophorone			not detected	100	2.31	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72		
105-67-9	2,4-Dimethylphenol			not detected	100	2.42	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71	ug/L	
120-82-I	1,2,4-Trichlorobenzene			not detected	9	2.58	ug/L	
91-20-3	Naphthalene			not detected	NLE	3.03	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49	ug/L	
77-47-4	Hexachlorocyclopentadione			not detected	50	1.59	ug/L	···
88-06-2	2,4,6-Trichlorophenol	_		not detected_	20	1.66	ug/L	·
<u> </u>	2,4,5-Trichlorophenol			not detected	<b>70</b> 0	1.63	ug/L	
91-58-7_	2-Chloronaphthalene			not detected_	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62	ug/L	
83-32-9	Acenaphthene			not detected	400	1.98	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31	ug/L	

## Semi-Volatile Analysis Report Page 2

Data File Name

bn2095.d

Sample Name

3723.02

Operator

FITZPATRICK

Misc Info

FIELD BLANK

Date Acquired

17 Jul 98 9:15 pm

Sample Multiplier 1

121-14-2	2,4-Dinitrotoluene	not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate	not detected	5000	1.68	ug/L	
86- <u>73-7</u>	Fluorene	not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline	not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	20	1.73	ug/L	
103-33-3	Azobenzene	not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene	not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol	not detected	1	0.55	ug/L	
85-01-8	Phenanthrene	not detected	NLE	1.67	ug/L	
120-12-7	Anthracene	not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate	not detected	900	1.83	ug/L	
206-44-0	Fluoranthene	not detected	300_	1.85	ug/L	
92-87-5	Benzidine	not detected	50	4.11	ug/L	
129-00-0	Pyrene	not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate	not detected	100	1.15	ug/L	
56- <u>55</u> -3	Benzo[a]anthracene	not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine	not detected	60	2.28	ug/L	
218-01-9	Chrysene	not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate	not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene	not_detected	10	1.31	ug/L	
207-08-9	Benzo k fluoranthene	not detected	2	1.57	ug/L	
50-32-8	Benzofa]pyrene	not detected	20	1.36	ug/L	
193- <u>3</u> 9-5	Indeno[1,2,3-cd]pyrene	not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene	not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene	not detected	NLE	1.13	ug/L	

### Qualiflers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

bn2096.d

Sample Name

3723.03

Operator

FITZPATRICK

Misc Info

MW-30

Date Acquired

17 Jul 98 10:04 pm

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW <u>Criteria</u>	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	Ĺ.
95-57-8	2-Chlorophenoi			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600		ug/L	
	2-Methylphenol			not detected	NLE		ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300		ug/L	
	4-Methylphenol			not detected	NLE		ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20		ug/L	
67-72-1	Hexachloroethane			not detected	10		ug/L	
98-95-3	Nitrobenzene	_		not detected	10		ug/L	
78-59-1	Isophorone			not detected	100		ug/L	
88-75-5	2-Nitrophenol			not detected	NLE		ug/L	·
105-67-9	2,4-Dimethylphenol		t	not detected	100		ug/L	
111-91-1	bis(2-Chloroethoxy)methane	1 -		not detected	NLE		ug/L	
120-83-2	2.4-Dichlorophenol			not detected	20		ug/L	
65-85-0	Benzoic Acid	1		not detected	NLE		ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9		ug/L	
91-20-3	Naphthalene	1 1		not detected	NLE_		ug/L	
106-47-8	4-Chloroaniline	-		not detected	NLE		ug/L	
87-68-3	Hexachlorobutadiene	<del>                                     </del>	<del></del>	not detected	1		ug/L	
59-50-7	4-Chloro-3-methylphenol	1		not detected	NLE		ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49		
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59		
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66		
	2,4,5-Trichlorophenol			not detected	700	1.63		
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15		
88-74-4	2-Nitroaniline			not detected	NLE	1.62		
131-11-3	Dimethylphthalate			not .detected	7000	2.74		
208-96-8	Acenaphthylene	1		not detected	NLE	2.35		
606-20-2	2,6-Dinitrotoluene	1 1		not detected	NLE	1.54		
99-09-2	3-Nitroaniline			not detected	NLE	1.62		
83-32-9	Acenaphthene	1		not detected	400	1.98		
51-28-5	2,4-Dinitrophenol	1		not detected	40 _	1.65		
132-64-9	Dibenzofuran	1 1		not detected	NLE	2.13		
100-02-7	4-Nitrophenol	1 1		not detected	NLE	1.31		
100-04-7	T. T.T. Optonor			Hot detected	NLE	1.51	ᄱᄧ	

## Semi-Volatile Analysis Report Page 2

Data File Name

bn2096.d

MLZUZUJU.U

FITZPATRICK

Sample Name

3723.03

Misc Info

MW-30

Date Acquired

Operator

17 Jul 98 10:04 pm

Sample Multiplier

			T			<del></del>
121-14-2	2,4-Dinitrotoluene	not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate	not detected	5000	1.68	ug/L	
86-73-7	Fluorene	not detected	300	1.93	u <b>e</b> /L	
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline	not detected	NLE	2.70	ug/L	<u> </u>
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine	not_detected	20	1.73	ug/L	
103-33-3	Azobenzene	not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	NLE	1.54	ug/L	
118-74-1	Hexachiorobenzene	not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol	not detected	1	0.55	ug/L	
85-01-8	Phenanthrene	not detected	NLE	1.67	ug/L	
120-12-7	Anthracene	not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate	not detected	900	1.83	ug/L	
206-44-0	Fluoranthene	not detected	300	1.85	ug/L	
92-87-5	Benzidine	not detected	50	4.11	ug/L	
129-00-0	Pyrene	not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate	not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene	not detected	10	1.57	ug/L	<u> </u>
91-94-1	3,3'-Dichlorobenzidine	not detected	60	2.28	ug/L	
218-01-9	Chrysene	not detected	20	2.32	ng/L	
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate	not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene	not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene	not detected	2	1,57	ug/L	
50-32-8	Benzo[a]pyrene	not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene	not detected	20	3.12	ug/L	!
191-24-2	Benzo(g,h,i)perylene	not detected	NLE	1.13	ug/L	

## **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

bn2097.d

Sample Name

3723.04

Operator

FITZPATRICK

Misc Info

MW-31

Date Acquired

17 Jul 98 10:53 pm "

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Cr <u>i</u> teria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	
62-53-3	Aniline			not detected	NLE		ug/L	
108-95-2	Phenol			not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50		
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44		
	2-Methylphenol			not detected	NLE		ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96		
	4-Methylphenol			not detected	NLE	1.72		
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22	ug/L	
67-72-I	Hexachloroethane			not detected	10	2.59	ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45		
78-59-1	Isophorone			not detected	100	2.31		
88-75-5	2-Nitrophenol			not detected	NLE	1.72		
105-67-9	2,4-Dimethylphenol			not detected	100	2.42		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54		
120-83-2	2,4-Dichlorophenol		1	not detected	20	1.79	_	
65-85-0	Benzoic Acid			not detected	NLE	0.71		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58		
91-20-3	Naphthalene			not detected	NLE	3.03		<del></del>
106-47-8	4-Chlorozniline			not detected	NLE	2.55		
87-68-3	Hexachlorobutadiene			not detected	1	0.64		
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46	$\neg$	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49		
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59		
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66		
	2,4,5-Trichlorophenol			not detected	700	1.63		
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15		<del></del>
88-74-4	2-Nitroaniline			not detected	NLE	1.62	$\neg$	
131-11-3	Dimethylphthalate			not detected	7000	2.74		
208-96-8	Acenaphthylene			not detected	NLE	2.35	$\overline{}$	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54	_	
99-09-2	3-Nitroaniline			not detected	NLE	1,62		
83-32-9	Acenaphthene	_		not detected	400	1.98		
51-28-5	2,4-Dinitrophenol		<del></del>	not detected	40	1.65		
132-64-9	Dibenzofuran		——	not detected	NLE	2.13		
100-02-7	4-Nitrophenol		<del></del> +	not detected	NLE	1.31		

## Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

Operator

bn2097.d

FITZPATRICK 17 Jul 98 10:53 pm Sample Name

3723.04

Misc Info

MW-31

Sample Multiplier 1

		<u> </u>		
121-14-2	2,4-Dinitrotoluene	not detected	10	1.22 ug/L
84-66-2	Diethylphthalate	not detected	5000	1.68 ug/L
86-73-7	Fluorene	not detected	300	1.93 ug/L
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	1.53 ug/L
100-01-6	4-Nitroaniline	not detected	NLE	2.70 ug/L
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	1.58 ug/L
86-30-6	n-Nitrosodiphenylamine	not_detected	20	1.73 ug/L
103-33-3	Azobenzene	not detected	NLE	1.92 ug/L
101-55-3	4-Bromophenyl-phenylether	not detected	NLE	1.54 ug/L
118-74-1	Hexachlorobenzene	not detected	10	1.88 ug/L
87-86-5	Pentachlorophenol	not detected	1	0.55 ug/L
85-01-8	Phenanthrene	not detected	NLE	1.67 ug/L
120-12-7	Anthracene	not detected	2000_	1,79 ug/L
84-74-2	Di-n-butylphthalate	not detected	900	1.83 ug/L
206-44-0	Fluoranthene	not detected	300	1.85 ug/L
92-87-5	Benzidine	not detected	50	4.11 ug/L
129-00-0	Pyrene	not detected	200	1.02 ug/L
85-68-7	Butylbenzylphthalate	not detected	100	1.15 ug/L
56-55-3	Benzo[a]anthracene	not_detected	10	1.57 ug/L
91-94-1	3,3'-Dichlorobenzidine	not detected	60	2.28 ug/L
218-01-9	Chrysene	not detected	20	2.32 ug/L
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	1.29 ug/L
117-84-0	Di-n-octylphthalate	not detected	100	1.30 ug/L
205-99-2	Benzo[b]fluoranthene	not detected	10	1.31 ug/L
207-08-9	Benzo[k]fluoranthene	not detected	2	1.57 ug/L
50-32-8	Benzolalpyrene	not detected	20	1.36 ug/L
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	1.22 ug/L
53-70-3	Dibenz[a,h]anthracene	not detected	20	3.12 ug/L
191-24-2	Benzo[g,h,i]perylene	not detected	NLE	1.13 ug/L

### **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

bn2098.d

Sample Name

3723.05

Operator

FITZPATRICK

Misc Info

MW-32

Date Acquired

17 Jul 98 11:42 pm "

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64 ug/L	
62-53-3	Aniline			not detected	NLE	2.90 ug/L	
108-95-2	Phenol			not detected	4000	1.11 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45 ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09 ug/L	
95-50-1	1,2-Dichlorobenzene			not_detected	600	2.44 ug/L	
	2-Methylphenol			not detected	NLE	2.09 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96 ug/L	
	4-Methylphenol			not detected	NLE	1.72 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22 ug/L	
67-72-1	Hexachloroethane			not detected	10	2.59 ug/L	
98-95-3	Nitrobenzene			not detected	10	2.45 ug/L	
78-59-1	Isophorone			not detected	100	2.31 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72 ug/L	<del>                                     </del>
105-67-9	2.4-Dimethylphenol			not detected	100	2.42 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.71 ug/L	<del> </del>
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58 ug/L	
91-20-3	Naphthalene	<u> </u>		not detected	NLE	3.03 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	2.55 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.64 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	_20	1.66 ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15 ug/L	
88-74-4	2-Nitroaniline	$\cdot \Box$		not detected	NLE	1.62 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.62 ug/L	
83-32-9	Acenaphthene			not detected	400	1.98 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	2.13 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31 ug/L	

## Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

bn2098.d

Operator FIT:

FITZPATRICK

17 Jul 98 11:42 pm

Sample Name

3723.05

Misc Info

MW-32

Sample Multiplier

		· · · · · · · · · · · · · · · · · · ·				
121-14-2	2,4-Dinitrotoluene	not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate	not detected	5000	1.68	ug/L	
86-73-7	Fluorene	not_detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline	not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	20	1.73	ug/L	<u></u>
103-33-3	Azobenzene	not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether	not_detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene	not detected	10	_1.88	ug/L	
87-86-5	Pentachlorophenol	not detected	11	0.55	ug/L	
85-01-8	Phenanthrene	not detected	NLE	1.67	ug/L	
120-12-7	Anthracene	not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate	not detected	900	1.83	ug/L	
206-44-0	Fluoranthene	not detected	300	1.85	ug/L	L
<b>92-87-</b> 5	Benzidine	not detected	50	4.11	ug/L	
129-00-0	Pyrene	not detected	200	1.02	ug/L	
85 <b>-</b> 68-7	Butylbenzylphthalate	not detected	_100	1.15	ug/L	
56-55-3	Benzo[a]anthracene	not detected	10	1.57	ug/I	
91-94-1	3,3'-Dichlorobenzidine	not detected	60	2,28	ug/L	
218-01-9	Chrysene	not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	not_detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate	not detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene	not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene	not detected	2	1.57	ug/L	
50-32-8	Benzojajpyrene	not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene	not detected	20	3.12	ug/L	
191-24-2	Benzo[g.h.i]perylene	not detected	NLE	1.13	ug/L	

### **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

bn2099.d

Sample Name

3723.06

Operator

FITZPATRICK

Misc Info

MW-33

Date Acquired

18 Jul 98 12:30 am ··

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL	<u>Qualifi</u> ers
110-86-1	Pyridine			not detected	NLE	2.52 us	√L
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64 աց	/L
62-53-3	Aniline			not detected	NLE	2.90 us	/L
108-95-2	Phenol			not detected	4000	1.11 ug	/L
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45 us	/L
95-57-8	2-Chlorophenol			not detected	40	1.92 ug	/L
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65 ug	/L
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50 ug	/L
100-51-6	Benzyl alcohol			not detected	NLE	2.09 ug	/L
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44 ug	/L
	2-Methylphenol			not_detected	NLE	2.09 ug	/L
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2,96 ug	/L
	4-Methylphenol			not detected	NLE	1.72 ug	/L
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22 ug	几
67-72-1	Hexachloroethane			not detected	10	2.59 ug	/L
98-95-3	Nitrobenzene			not detected	10	2.45 ug	ı
78-59-1	Isophorone			not detected	100	2.31 ug	/L
88-75-5	2-Nitrophenol			not detected	NLE	1.72 ug	/L
105-67-9	2,4-Dimethylphenol			not detected	_ 100	2.42 ug	/L
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54 ug	/L
120-83-2	2,4-Dichlorophenol			not detected	20	1.79 ug	
65-85-0	Benzoic Acid			not detected	NLE	0.71 ug	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58 ug	/L
91-20-3	Naphthalene			not detected	NLE	3.03 ug	
106-47-8	4-Chloroaniline			not detected	NLE	2.55 ug	
87-68-3	Hexachlorobutadiene			not detected	i	0.64 ug	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46 ug	
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49 ug	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59 ug	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66 ug	·
	2,4,5-Trichlorophenol			not detected	_700	1.63 ug	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15 ug	
88-74-4	2-Nitroaniline			not detected	NLE	1.62 ug	ı
131-11-3	Dimethylphthalate			not detected	7000	2.74 ug	
208-96-8	Acenaphthylene			not detected	NLE	2.35 ug	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54 ug	
99-09-2	3-Nitroaniline			not detected	NLE	1.62 ug/	
83-32-9	Acenaphthene			not detected	400	1.98 ug	
51-28-5	2,4-Dinitrophenol			not detected	40	1.65 ug	
132-64-9	Dibenzofuran			not detected	NLE	2.13 ug	
100-02-7	4-Nitrophenol	1 1		not detected	NLE	1.31 ug/	

## Semi-Volatile Analysis Report Page 2

Data File Name

Operator Date Acquired bn2099.d

FITZPATRICK 18 Jul 98 12:30 am Sample Name

3723.06

Misc Info

MW-33

Sample Multiplier 1

	<u></u>	<del></del>	T	<del>, , , , , , , , , , , , , , , , , , , </del>	
121-14-2	2,4-Dinitrotoluene	not detected	10	1.22 ug/L	
84-66-2	Diethylphthalate	not detected	5000	1.68 ug/L	
86-73-7	Fluorene	not detected	300	1.93 ug/L	
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	1.53 ug/L	
100-01-6	4-Nitroaniline	not detected	NLE	2.70 ug/L	<u> </u>
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	1.58 ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	20	1.73 ug/L	
103-33-3	Azobenzene	not_detected	NLE	1.92 ug/L	
101-55-3	4-Bromophenyl-phenylether	not detected	NLE	1.54 ug/L	
118-74-1	Hexachlorobenzene	not detected	10	1.88 ug/L	
87-86-5	Pentachlorophenol	not_detected	1	0.55 ug/L	
85-01-8	Phenanthrene	not detected	NLE	1.67 ug/L	
120-12-7	Anthracene	not detected	2000	1.79 ug/L	
84-74-2	Di-n-butylphthalate	not detected	900	1.83 ug/L	
206-44-0	Fluoranthene	not detected	300	1.85 ug/L	<del>.</del>
92-87-5	Benzidine	not detected	50_	4.11 ug/L	
129-00-0	Pyrene	not detected	200	1.02 ug/L	
85-68-7	Butylbenzylphthalate	not detected	100_	1.15 ug/L	
56-55-3	Benzo[a]anthracene	not detected	10_	1.57 ug/L	
91-94-1	3,3'-Dichlorobenzidine	not detected	60	2.28 ug/L	
218-01-9	Chrysene	not detected	20	2.32 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	not detected	30	1.29 ug/L	
117-84-0	Di-n-octylphthalate	not detected	100_	1.30 ug/L	
205-99-2	Benzo[b]fluoranthene	not detected	10	1.31 ug/L	
207-08-9	Benzo[k]fluoranthene	not detected	2	1.57 ug/L	
50-32-8	Benzo[a]pyrene	not detected	20	1.36 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	1.22 ug/L	
53- <u>7</u> 0-3	Dibenz[a,h]anthracene	not detected	20_	3.12 ug/L	
191-24-2	Benzo[g,h,i]perylene	not detected	NLE	1.13 ug/L	

### **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BN2100.D

Sample Name

3723.07

Operator

FITZPATRICK

Misc Info

FIELD DUP

Date Acquired

18 Jul 98 1:19 am

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	GW Criteria	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	
108-95-2	Phenol			not detected	4000	1.11	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	ug/L	
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	ug/L	
	2-Methylphenol			not detected	NLE	2.09	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300		ug/L	
	4-Methylphenol			not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22		
67-72-1	Hexachloroethane			not detected	10		ug/L	
98-95-3	Nitrobenzene			not detected	10		ug/L	
78-59-1	Isophorone			not detected	100		ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72		
105-67-9	2,4-Dimethylphenol			not detected	100	2.42		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2,54	1	
120-83-2	2,4-Dichlorophenol			not detected	20	1.79		
65-85-0	Benzoic Acid			not detected	NLE	0.71		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58		
91-20-3	Naphthalene			not detected	NLE	3.03		
106-47-8	4-Chloroaniline			not detected	NLE	2.55		
87-68-3	Hexachlorobutadiene			not detected	1	0.64		
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46		
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49		·=·
77-47-4	Hexachlorocyclopentadiene			not detected	_50	1.59		
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.62	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	2.74	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	2.35		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54		
99-09-2	3-Nitroaniline			not detected	NLE	1.62		
83-32-9	Acenaphthene			not detected	400	1.98		
51-28-5	2,4-Dinitrophenol			not detected	40	1.65		
132-64-9	Dibenzofuran			not detected	NLE	2.13		
100-02-7	4-Nitrophenol			not detected	NLE	1.31		

## Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BN2100.D

Operator

FITZPATRICK

18 Jul 98 1:19 am

Sample Name

3723.07

Misc Info

FIELD DUP

Sample Multiplier

···			T	<del>-</del>		<del></del>
121-14-2	2,4-Dinitrotoluene	not detected	_ 10	1.22	ug/L	[
84-66-2	Diethylphthalate	not detected	5000	1.68	ug/L	<u> </u>
86-73-7	Fluorene	not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether	not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline	not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine	not detected	20	1.73	ug/L	
103-33-3	Azobenzene	not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether	not_detected	_NLÉ	1.54	ug/L	
118-74-1	Hexachlorobenzene	not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol	not detected	1	0.55	ug/L	
85-01-8	Phenanthrene	not detected	NLE	1.67	ug/L	
120-12-7	Anthracene	not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate	not detected	900	1.83	ug/L	
206-44-0	Fluoranthene	not detected	300	1.85	ug/L	
92-87-5	Benzidine	not detected	50	4.11	ug/L	
129-00-0	Pyrene	not detected	200	1.02	ug/L	
85-68-7	Butylbenzylphthalate	not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene	not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine	not detected	60	2.28	ug/L	
218-01-9	Chrysene	not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	not_detected	30	1.29	ug/L	
117-84-0	Di-n-octylphthalate	not_detected	100	1.30	ug/L	
205-99-2	Benzo[b]fluoranthene	not detected	10	1.31	ug/L	
207-08-9	Benzo[k]fluoranthene	not detected	2	1.57	ug/L	
50-32-8	Benzo[a]pyrene	not detected	20	1.36	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	not detected	20	1.22	ug/L	
53-70-3	Dibenz[a,h]anthracene	not detected	20	3.12	ug/L	
191-24-2	Benzo[g,h,i]perylene	not detected	NLE	1.13	ug/L	

## Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMET	L.	Lab Code 13461	SBLK 104
Project	Case No.: 3723	Location CW-2 S	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	SBLK 104
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN2093.D
Level: (low/med)	LOW	Date Received:	07/14/98
% Moisture:	decanted: (Y/N)	N Date Extracted:	07/15/98
Concentrated Extra	t Volume: 1000 (uL)	Date Analyzed:	07/17/98
Injection Volume: 1	.0 (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N)	<u>N</u> pH: <u>7</u>		•
	•	CONCENTRATION UNI	TS:
Number TICs found:	1	(ug/L or ug/Kg) UG/	L
CAS NUMBER	COMPOUND NAME	RT ES	T. CONC. Q
1	unknown	6 29	9 .

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Nome: EMETI		Lab Code 13461	FIELD BLANK
Lab Name: FMETL		<del></del>	
Project	Case No.: <u>3723</u>	Location <u>CW-2</u> SI	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3723.02
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN2095.D
Level: (low/med)	LOW	Date Received:	07/14/98
% Moisture:	decanted: (Y/N)	N Date Extracted:	07/15/98
Concentrated Extrac	t Volume: 1000 (uL)	Date Analyzed:	07/17/98
Injection Volume: 1	.0 (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N)	N pH: <u>7</u>		
•		CONCENTRATION UNI	TS:
Number TICs found:	1	(ug/L or ug/Kg) UG/I	
CAS NUMBER	COMPOUND NAME	RT ES	T. CONC. Q
1	unknown	6.29	8 J

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

					MVV-	30
Lab Name: FMET		Lab Coo	ie <u>13461                                   </u>			
Project	Case No.: 3723	Locat	ion <u>CW-2</u>	_ SD	G No.:	
Matrix: (soil/water)	WATER	l	ab Sample	D: 3	723.03	
Sample wt/vol:	1000 (g/ml) ML	L	ab File ID:	E	3N2096.D	
Level: (low/med)	LOW	ſ	Date Recei	ved: <u>0</u>	7/14/98	
% Moisture:	decanted: (Y/N) _	N [	Date Extra	ted: 0	7/15/98	
Concentrated Extra	t Volume: 1000 (uL)	. [	Date Analyz	zed: 0	7/17/98	
Injection Volume: 1	.0 (uL)	1	Dilution Fac	tor: <u>1</u>	.0	<del></del>
GPC Cleanup: (Y/N)	N pH: 7					
		CONCE	NTRATION	UNIT	S:	
Number TICs found:	1	(ug/L or	ug/Kg)	UG/L		<u>,                                      </u>
CAS NUMBER	COMPOUND NAME		RT	EST	CONC.	Q
1.	unknown		6.29		12	J

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS MW-31 Lab Code 13461 Lab Name: **FMETL** Project Case No.: 3723 Location CW-2 SDG No.: WATER Lab Sample ID: 3723.04 Matrix: (soil/water) Lab File ID: Sample wt/vol: 1000 (g/ml) ML BN2097.D LOW Level: (low/med) Date Received: 07/14/98 Date Extracted: 07/15/98 % Moisture: decanted: (Y/N) Ν Concentrated Extract Volume: 1000 (uL) Date Analyzed: 07/17/98 Injection Volume: 1.0 (uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 7

**CONCENTRATION UNITS:** 

FIELD ID

 Number TICs found:
 0
 (ug/L or ug/Kg)
 UG/L

 CAS NUMBER
 COMPOUND NAME
 RT
 EST. CONC.
 Q

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID TENTATIVELY IDENTIFIED COMPOLINDS

	JENIA IIVELT IDENTIFI	ED COMIL COMPO	
Lab Name: FM	ETL	_ Lab Code _13461	MW-32
Project	Case No.: 3723	Location <u>CW-2</u> SE	OG No.:
Matrix: (soil/wate	r) WATER	Lab Sample ID:	3723.05
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN2098.D
Level: (low/med)	LOW	Date Received:	07/14/98
% Moisture:	decanted: (Y/N)	N Date Extracted:	07/15/98
Concentrated Ex	tract Volume: 1000 (uL)	Date Analyzed:	07/17/98
Injection Volume	: 1.0 (uL)	Dilution Factor:	1.0
GPC Cleanup: (\	//N) N pH: 7		
		CONCENTRATION UNIT	S:
Number TICs for	ind: 0	(ug/L or ug/Kg) UG/L	

COMPOUND NAME

CAS NUMBER

EST. CONC.

RT

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

MW-33

Lab Name: FMETL		Lab Code 13461	_
Project	Case No.: <u>3723</u>	Location <u>CW-2</u> S	DG No.:
Matrix: (soil/water)	WATER_	Lab Sample ID:	3723.06
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN2099.D
Level: (low/med)	LOW	Date Received:	07/14/98
% Moisture:	decanted: (Y/N)	N Date Extracted:	07/15/98
Concentrated Extract	Volume: 1000 (uL)	Date Analyzed:	07/18/98
Injection Volume: 1.0	) (uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N)	NpH: 7		
		CONCENTRATION UNI	ITS:
Number TICs found:	0	(ug/L or ug/Kg) UG/	<u></u>
CAS NUMBER	COMPOUND NAME	RT ES	ST. CONC. Q

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMETL	Lab	Code 13461	FIELD DUP
Project	Case No.: 3723 L	ocation CW-2 S	DG No.:
Matrix: (soil/water)	WATER	Lab Sample ID:	3723.07
Sample wt/vol:	1000 (g/ml) ML	Lab File ID:	BN2100.D
Level: (low/med)	LOW	Date Received:	07/14/98
% Moisture:	decanted: (Y/N)N	Date Extracted:	07/15/98
Concentrated Extract	Volume: 1000 (uL)	Date Analyzed:	07/18/98
Injection Volume: 1.0	(uL)	Dilution Factor:	1.0
GPC Cleanup: (Y/N)	N pH: 7		
	CON	ICENTRATION UNI	TS:
Number TICs found:	0 (ug/l	or ug/Kg) <u>U</u> G/	<u>L</u>
CAS NUMBER	COMPOUND NAME	RT ES	T. CONC. Q

Client:

U.S. Army

Lab. ID #:

BLK145

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

7/15/98

Ft. Monmouth, NJ 07703

Analysis Date:

8/19/98

Analysis:

EPA Method 608

Matrix:

Aqueous

Location:

Analyst:

D. Wright

Field ID:

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. Fun	nei				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ŅD
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	. 1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

3723.02

DPW, SELFM-PW-EV

Date Rec'd:

7/14/98

Bldg. 173

**Extraction Date:** 

7/15/98

Ft. Monmouth, NJ 07703

Analysis Date:

8/19/98

Analysis:

EPA Method 608

Location:

CW-2 (2700) MW'S

Matrix:

Aqueous

Field ID:

Field Blank

Analyst:

D. Wright

Ext. Meth: Sep. I	Tunnel				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1	·	0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chiordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	-1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

3723.03

DPW, SELFM-PW-EV

Date Rec'd:

7/14/98

Bldg. 173

**Extraction Date:** 

7/15/98

Ft. Monmouth, NJ 07703

Analysis Date:

8/19/98 -

Analysis:

EPA Method 608

Location:

CW-2 (2700) MWS

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

MW-30

Sep. Funnel

Ext. Meth: Sep.	Funnel	····	T		
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1	'	0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	. ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

3723.04

DPW, SELFM-PW-EV

Date Rec'd:

7/14/98

Bldg. 173

**Extraction Date:** 

7/15/98

Ft. Monmouth, NJ 07703

Analysis Date:

8/19/98

Analysis:

EPA Method 608

Location:

CW-2 (2700) MWS

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

MW-31

Ext. Meth: Sep.	Funnel	·			<del></del>
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	, ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND .
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

3723.05

DPW, SELFM-PW-EV

Date Rec'd:

7/14/98

Bldg. 173

**Extraction Date:** 

7/15/98

Ft. Monmouth, NJ 07703

Analysis Date:

8/19/98

Analysis:

EPA Method 608

Location:

CW-2 (2700) MW'S

Matrix:
Analyst:

Aqueous

D. Wright

Field ID:

MW-32

Fyt Meth.

Ext. Meth: Sep. Fu	mnel				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	- 1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND ·
Arochlor 1232	1		0.50	0.0500	ND
Arochior 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

3723.06

DPW, SELFM-PW-EV

Date Rec'd:

7/14/98

Bldg. 173

**Extraction Date:** 

7/15/98

Ft. Monmouth, NJ 07703

Analysis Date:

8/19/98

Analysis:

EPA Method 608

Location:

CW-2 (2700) MW'S

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

MW-33

Ext.	Meth:	

Sep. Funnel

Ext. Meth: Sep. Furn	161				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	. ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

\* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

3723.07

DPW, SELFM-PW-EV

Date Rec'd:

7/14/98

Bldg. 173

**Extraction Date:** 

7/15/98

Ft. Monmouth, NJ 07703

Analysis Date:

8/19/98

Analysis:

EPA Method 608

Location:

CW-2 (2700) MW'S

Matrix: Analyst: Aqueous

D. Wright

Field ID:

Field Dup

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep.	Funnel		·		
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

Lab ID #: 3723

DPW, SELFM-PW-EV

Sample Preparation: 07/24/98

Bldg. 173

Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

Site:

CW-2

Ft. Monmouth, New Jersey

## METHOD BLANK SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/24/98	145	200	10.0
Antimony	07/24/98	5.0	20	2.0
Arsenic	07/24/98	ND	8	2.0
Barium	07/24/98	2.5	2000	0.5
Beryllium	07/24/98	0.7	20	0.5
Cadmium	08/04/98	ND	4	0.5
Calcium	07/24/98	243	NLE	20.0
Chromium	07/24/98	ND	100	0.5
Cobalt	07/24/98	ND	NLE	0.5
Copper	07/24/98	ND	1000	3.0
Iron	07/24/98	30	300	10.0
Lead	07/24/98	4.0	10	2.0
Magnesium	07/24/98	100	NLE	20.0
Manganese	07/24/98	ND	50	0.5
Mercury	07/24/98	ND	2	0.2
Nickel	07/24/98	ND	100	0.5
Potassium	07/24/98	ND	NLE	20.0
Selenium	07/24/98	ND	50	3.0
Silver	07/24/98	ND	20	3.0
Sodium	07/24/98	ND	50000	20.0
Thallium	07/24/98	ND	10	3.0
Vanadium	07/24/98	ND	NLE	1.0
Zinc	07/24/98	ND	5000	1.0

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3723.02

Sample Received: 07/14/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/24/98	ND	200	10.0
Antimony	07/24/98	ND	20	2.0
Arsenic	07/24/98	ND	8	2.0
Barium	07/24/98	ND	2000	0.5
Beryllium	07/24/98	ND	20	0.5
Cadmium	08/04/98	ND	4	0.5
Calcium	07/24/98	149	NLE	20.0
Chromium	07/24/98	ND	100	0.5
Cobalt	07/24/98	ND	NLE	0.5
Copper	07/24/98	4.41	1000	3.0
Iron	07/24/98	117	300	10.0
Lead	07/24/98	ND	10	2.0
Magnesium	07/24/98	ND	NLE	20.0
Manganese	07/24/98	ND	50	0.5
Mercury	07/24/98	ND	2	0.2
Nickel	07/24/98	ND	100	0.5
Potassium	07/24/98	ND	NLE	20.0
Selenium	07/24/98	ND	50	3.0
Silver	07/24/98	ND	20	3.0
Sodium	07/24/98	ND	50000	20.0
Thallium	07/24/98	ND	10	3.0
Vanadium	07/24/98	ND	NLE	1.0
Zinc	07/24/98	ND	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3723.03

Sample Received: 07/14/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-30

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/24/98	65.7	200	10.0
Antimony	07/24/98	3.50	20	2.0
Arsenic	07/24/98	ND	8	2.0
Barium	07/24/98	85.5	2000	0.5
Beryllium	07/24/98	ND	20	0.5
Cadmium	08/04/98	ND	4	0.5
Calcium	07/24/98	75000	NLE	20.0
Chromium	07/24/98	ND	100	0.5
Cobalt	07/24/98	ND	NLE	0.5
Copper	07/24/98	4.37	1000	3.0
Iron	07/24/98	10900	300	10.0
Lead	07/24/98	ND	10	2.0
Magnesium	07/24/98	5270	NLE	20.0
Manganese	07/24/98	57.8	50	0.5
Mercury	07/24/98	ND	2	0.2
Nickel	07/24/98	0.630	100	0.5
Potassium	07/24/98	13800	NLE	20.0
Selenium	07/24/98	ND	50	3.0
Silver	07/24/98	ND	20	3.0
Sodium	07/24/98	14300	50000	20.0
Thallium	07/24/98	ND	10	3.0
Vanadium	07/24/98	1.22	NLE	1.0
Zinc	07/24/98	21.4	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3723.04

Sample Received: 07/14/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-31

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/24/98	390	200	10.0
Antimony	07/24/98	3.67	20	2.0
Arsenic	07/24/98	ND	8	2.0
Barium	07/24/98	295	2000	0.5
Beryllium	07/24/98	ND	20	0.5
Cadmium	08/04/98	ND	4	0.5
Calcium	07/24/98	58800	NLE	20.0
Chromium	07/24/98	ND	100	0.5
Cobalt	07/24/98	ND	NLE	0.5
Copper	07/24/98	34.5	1000	3.0
Iron	07/24/98	83600	300	10.0
Lead	07/24/98	4.85	10	2.0
Magnesium	07/24/98	6500	NLE	20.0
Manganese	07/24/98	311	50	0.5
Mercury	07/24/98	ND	2	0.2
Nickel	07/24/98	ND	100	0.5
Potassium	07/24/98	12800	NLE	20.0
Selenium	07/24/98	ND	50	3.0
Silver	07/24/98	ND	20	3.0
Sodium	07/24/98	8970	50000	20.0
Thallium	07/24/98	ND	10	3.0
Vanadium	07/24/98	ND	NLE	1.0
Zinc	07/24/98	26.2	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3723.05

Sample Received: 07/14/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-32

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/24/98	78.1	200	10.0
Antimony	07/24/98	2.27	20	2.0
Arsenic	07/24/98	2.51	8	2.0
Barium	07/24/98	203	2000	0.5
Beryllium	07/24/98	ND	20	0.5
Cadmium	08/04/98	ND	4	0.5
Calcium	07/24/98	88700	NLE	20.0
Chromium	07/24/98	ND	100	0.5
Cobalt	07/24/98	ND	NLE	0.5
Copper	07/24/98	31.1	1000	3.0
Iron	07/24/98	67500	300	10.0
Lead	07/24/98	3.99	10	2.0
Magnesium	07/24/98	8570	NLE	20.0
Manganese	07/24/98	287	50	0.5
Mercury	07/24/98	ND	2	0.2
Nickel	07/24/98	2.03	100	0.5
Potassium	07/24/98	10200	NLE	20.0
Selenium	07/24/98	ND	50	3.0
Silver	07/24/98	ND	20	3.0
Sodium	07/24/98	10700	50000	20.0
Thallium	07/24/98	ND	10	3.0
Vanadium	07/24/98	ND	NLE	1.0
Zinc	07/24/98	145	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3723.06

Sample Received: 07/14/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-33

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/24/98	411	200	10.0
Antimony	07/24/98	ND	20	2.0
Arsenic	07/24/98	ND	8	2.0
Barium	07/24/98	144	2000	0.5
Beryllium	07/24/98	ND	20	0.5
Cadmium	08/04/98	ND	4	0.5
Calcium	07/24/98	27500	NLE	20.0
Chromium	07/24/98	ND	100	0.5
Cobalt	07/24/98	ND	NLE	0.5
Copper	07/24/98	19.5	1000	3.0
Iron	07/24/98	35900	300	10.0
Lead	07/24/98	4.19	10	2.0
Magnesium	07/24/98	3790	NLE	20.0
Manganese	07/24/98	130	50	0.5
Mercury	07/24/98	ND	2	0.2
Nickel	07/24/98	1.86	100	0.5
Potassium	07/24/98	8300	NLE	20.0
Selenium	07/24/98	ND	50	3.0
Silver	07/24/98	ND	20	3.0
Sodium	07/24/98	15600	50000	20.0
Thallium	07/24/98	ND	10	3.0
Vanadium	07/24/98	2.60	NLE	1.0
Zinc	07/24/98	55.0	5000	1.0

## **Report of Analysis**

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 3723.07

Sample Received: 07/14/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Dup.

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/24/98	126	200	10.0
Antimony	07/24/98	3.73	20	2.0
Arsenic	07/24/98	ND	8	2.0
Barium	07/24/98	84.8	2000	0.5
Beryllium	07/24/98	ND	20	0.5
Cadmium	08/04/98	ND	4	0.5
Calcium	07/24/98	72700	NLE	20.0
Chromium	07/24/98	ND	100	0.5
Cobalt	07/24/98	ND	NLE	0.5
Copper	07/24/98	4.38	1000	3.0
Iron	07/24/98	13200	300	10.0
Lead	07/24/98	ND	10	2.0
Magnesium	07/24/98	5210	NLE	20.0
Manganese	07/24/98	65.1	50	0.5
Mercury	07/24/98	ND	2	0.2
Nickel	07/24/98	0.872	100	0.5
Potassium	07/24/98	14800	NLE	20.0
Selenium	07/24/98	ND	50	3.0
Silver	07/24/98	ND	20	3.0
Sodium	07/24/98	15400	50000	20.0
Thallium	07/24/98	ND	10	3.0
Vanadium	07/24/98	1.52	NLE	1.0
Zinc	07/24/98	22.0	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

	Lab	Silanol, trimethyl-	Hexadeca noic Acid	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:		ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ugl	Feet	
NJDEP Criteria:	-	NLE	NLE	300	50	200	8	10	-	
04/24/97	FMETL	31	9	9100	69	-	•	-	6.45	V,S,P,N
07/10/97	FMETL	ND	ND	12590	73	25	5.0	ND	7.05	V,S,P,N
10/22/97	FMETL	ND	ND	34800	171	175	5.0	5.0	7.60	V,S,P,N
01/08/98	FMETL	ND	ND	2795	5.0	204	ND	4.0	5.20	V,S,P,N
04/07/98	FMETL	ND	ND	3504	39.3	196	5.6	ND	6.56	V,S,P,N
07/14/98	FMETL	ND	ND	10900	57.8	65.7	ND	ND	6.89	V,S,P,N

SOURCE: MW30

Sampling Dates:
04/24/97 - 07/14/98

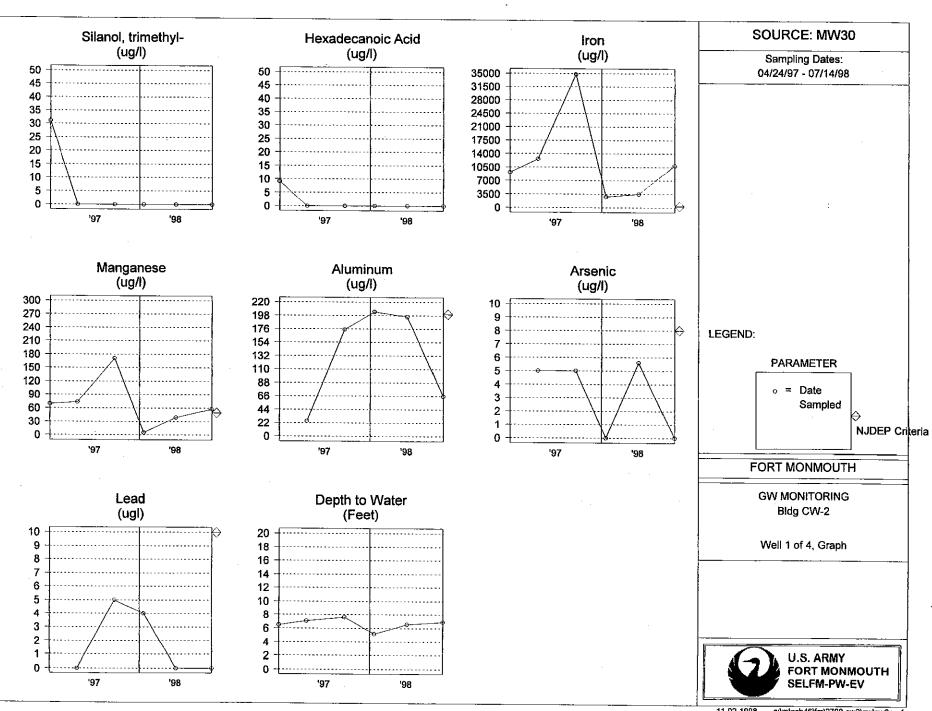
NOTES:

## FORT MONMOUTH

GW MONITORING Bidg CW-2

Well 1 of 4





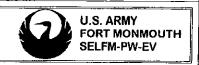
3	Lab		Benzene-1, 2,3,4,-d4,5, 6-dichloro	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ugl	Feet	
NJDEP Criteria:	-	NLE	NLE	300	50	200	8	10	-	-
04/24/97	FMETL	12	35	59900	277	-	-	-	6.38	V,S,P,M
07/10/97	FMETL	ND	ND	11830	267	ND	1.0	ND	7.00	V,S,P,M
10/22/97	FMETL	ND	ND	52300	243	93	ND	6.0	7.50	V,S,P,M
01/08/98	FMETL	ND	ND	68450	240	129	ND	25	6.30	VSPM
04/07/98	FMETL	ND	ND	115100	266	ND	ND	ND	6.35	V,S,P,M
07/14/98	FMETL	ND	ND	83600	311	390	ND	4.85	6.71	V,S,P,M

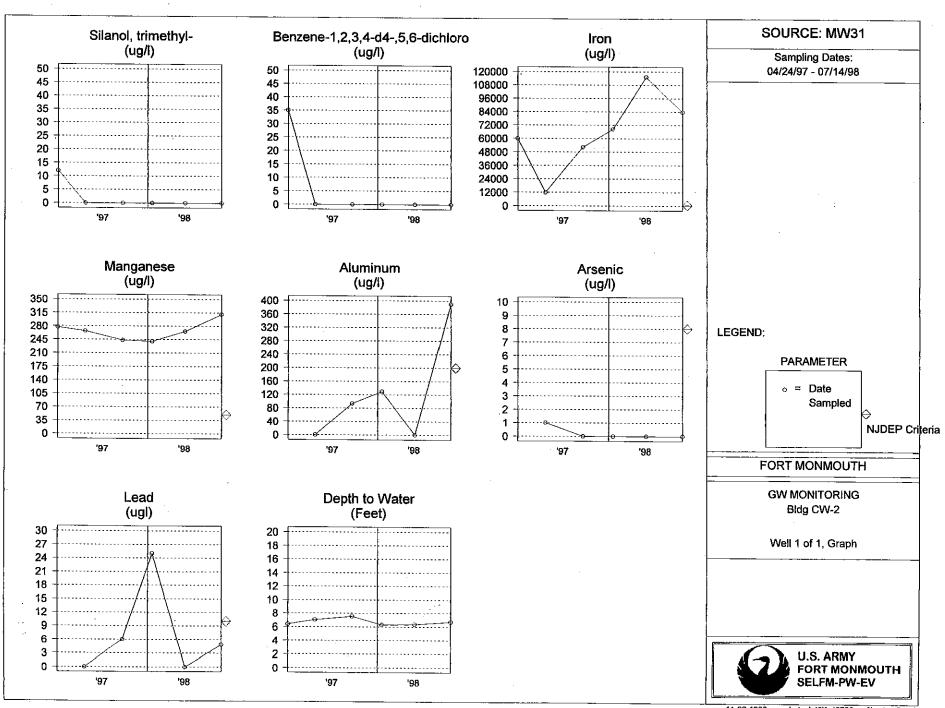
SOURCE: MW31								
-	Sampling Dates:	-						
	04/24/97 - 07/14/98							
NOTES:								

## FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 1 of 1





	Lab	Silanol, ( trimethyl-	E)-3-Chlord 2-methyl- 2-pentenal	Pentanone 4-hydroxy- 4-methyl	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ugl	Feet	-
NJDEP Criteria:	<u> </u>	NLE	NLE	NLE	300	50	200	8	10	-	-
04/24/97	FMETL	4	100	440	18400	125	-	-	-	6.65	V.S.P.M
07/10/97	FMETL	ND	ND	ND	270	181	595	ND	ND	7.20	V,S,P,M
10/22/97	FMETL	ND	ND	ND	51100	260	297	ND	7.0	7.70	V,S,P,M
01/08/98	FMETL	ND	ND	ND	1484	3.7	163	ND	ND	4.50	V.S.P.M
04/07/98	FMETL	ND	ND	22	19280	287	ND	ND	ND	6.81	V,S,P,M
07/14/98	FMETL	ND	ND	ND	67500	287	78.1	2.51	3.99	7.06	V,S,P,M

SOURCE: MW32	
Sampling Dates:	
04/24/97 - 07/14/98	

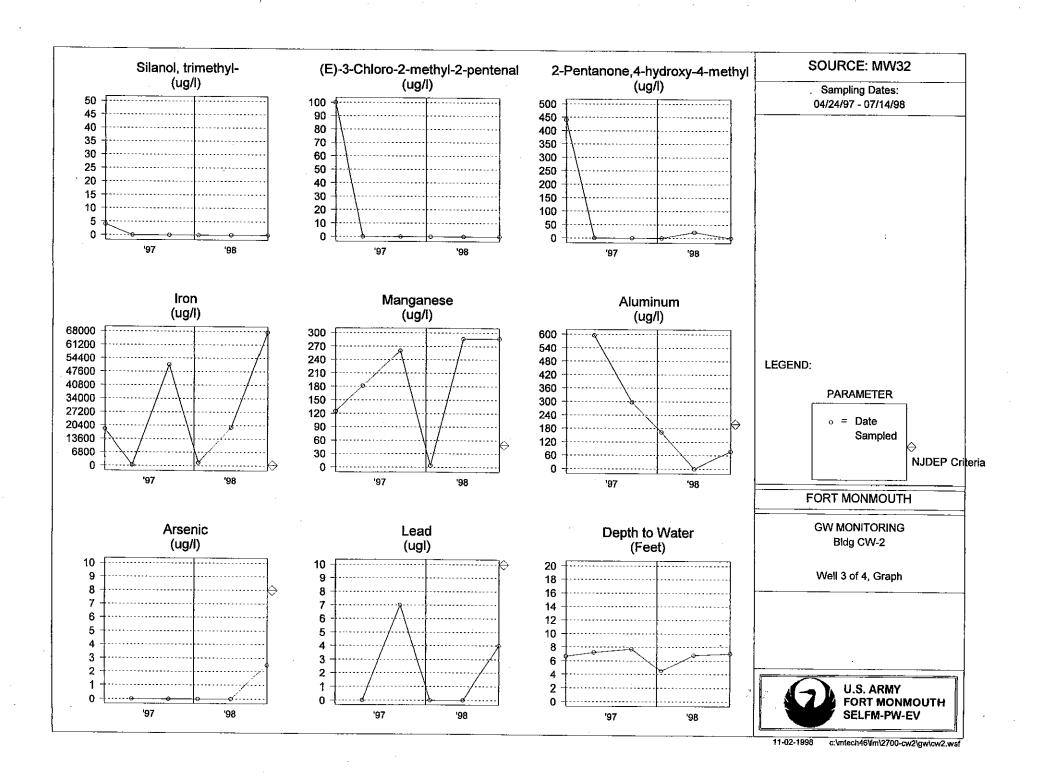
NOTES:

## FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 3 of 4





	Lab	Silanol, trimethyl-	(E)-3-Chloro 2-methyl- 2-pentenal	- Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/i	ug/l	ug/i	ug/l	ug/l	ugl	Feet	-
NJDEP Criteria:	-	NLE	NLE	300	50	200	8	10	-	
04/24/97	FMETL	30	41	88600	424	-	-		8.95	V,S,P,M
07/10/97	FMETL	ND	ND	10260	519	2.1	1.0	ND	9.10	V,S,P,M
10/22/97	FMETL	ND	ND	26800	151	94	ND	4.0	9.10	V,S,P,M
01/08/98	FMETL	ND	ND	104700	342	217	6.0	4.0	9.00	V,S,P,M
04/07/98	FMETL	ND	ND	19780	110	119	3.4	ND	9.50	V,S,P,M
07/14/98	FMETL	ND	ND	35900	130	411	ND	4.19	9.09	V,S,P,M

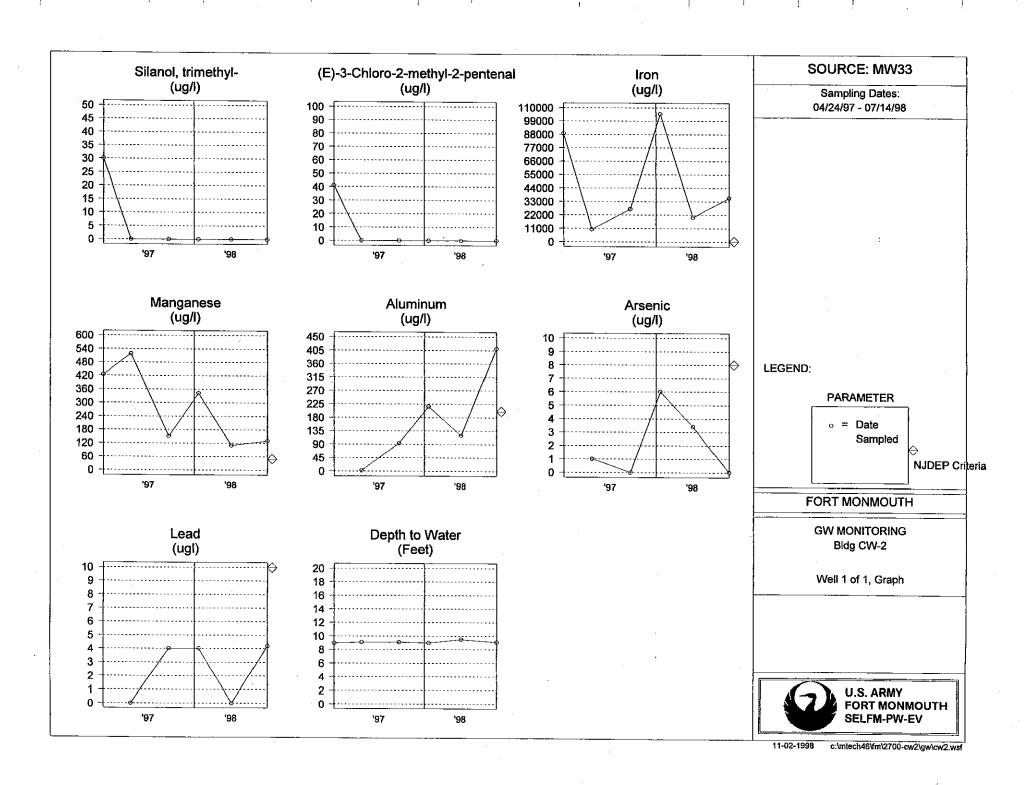
1	SOURCE: IVIVV33	
	Sampling Dates:	
	04/24/97 - 07/14/98	
NOTES:		

## FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 1 of 1





# FORT MONMOUTH ENVIRONMENTAL

# **TESTING LABORATORY**

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-3484 WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



## ANALYTICAL DATA REPORT **FOR** Directorate of Public Works

Fort Monmouth, NJ 07703

PROJECT: DERA/ Long Term Monitoring

## SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4083.03	MW-30	29-32594	11/24/98
4083.04	MW-31	29-32595	11/24/98
4083.05	MW-32	29-32596	11/24/98
4083.06	MW-33	29-32597	11/24/98

NJDEP Laboratory Certification # 13461

Daniel Wright/Date:

Laboratory Director

# **METHODOLOGY SUMMARY**

PARAMETER	REFERENCE							
TARGET ANALYTE LIST	Standard Methods, 18th ed.							
METALS								
Aluminum	3120 <b>B</b>							
Antimony	3120B							
Arsenic	3120 <b>B</b>							
Barium	3120B							
Beryllium	3120B							
Cadmium	3120B							
Calcium	3120B							
Chromium	3120B							
Cobalt	3120B							
Copper	3120B							
Iron	3120B							
Lead	3120B							
Magnesium	3120B							
Manganese	3120B							
Mercury .	3112B							
Nickel	3120B							
Potassium	3120B							
Selenium	3120B							
Silver	3120B							
Sodium	3120B							
Thallium	3120B							
Vanadium	3120B							
Zinc	3120B							

PARAMETER	REFERENCE
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136
ORGANICS	Appendix A
Base/Neutral and Acid	625
Extractables by GC/MS	
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608

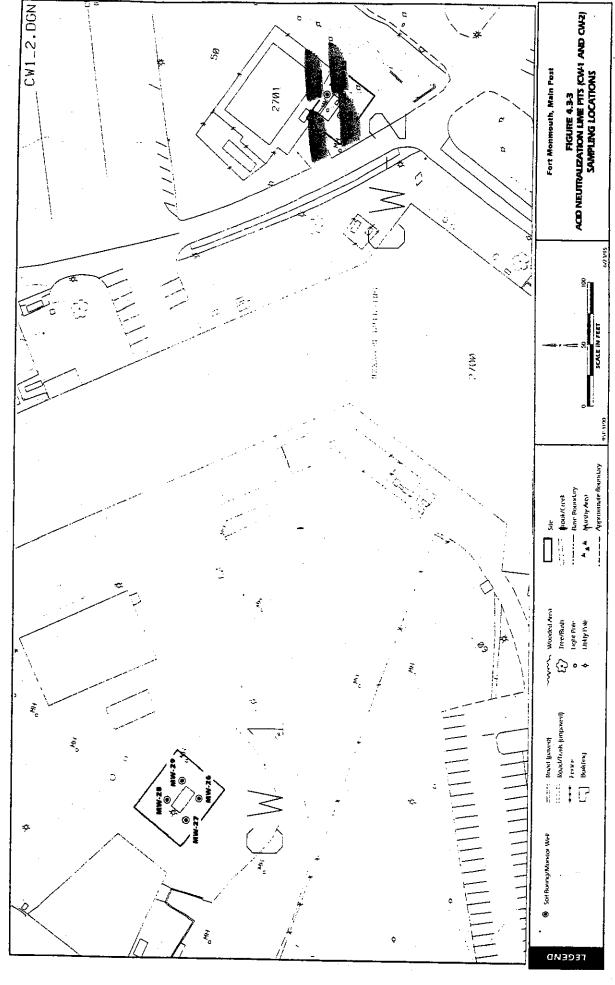


# Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-3484 EMail:appleby@doim6.monmouth.army.mil
NJDEP Certification #13461

# **Chain of Custody Record**

Customer:	Tue Fallon	Project No								arame	eters	Analysis Parameters Comments:				
Phone #: X20		Location:	CW-2 1	عسه		1.	\ \ <u>\</u>	Pest/PeB	72.5				Z,			
(JOERA ( )OMA	( )Other:	<u> </u>	4th art	r 198		÷	4	1/2	M				8	, ,		
Samplers Name / Company: Corey Mc Cornech TUS Sa			Sample	#	2	₹.	les.	AC				3	HLL/HNO3/LY°C			
Lab Sample I.D.	Sample Location	Date	Time	Туре	bottles	^	~		<i>f</i> ~				7	Remarks / Preservation Method		
4083.01	Trip	1124/98	0735	AQ	2	~								:		
.02	Trip Field Blank		0850		5	<b>~</b>		/	\			<u> </u>				
.03			1023		5	<b>~</b>		_	<u></u>					O.O ppm		
.04	MW-31 *	(2:	15021		5	~		_	7				<u></u>	0.0 ppm		
,05	mw-32		1031		5	~			~				~	0.0 ppm		
.06	MW-32 MW-33 Oupe		1015		5	~	_	/	/				1	O, U ppm		
07	Oupe	V		₩	5	_	_							, ·		
	<i>V</i>	<u> </u>														
					<u> </u>											
	·															
Reimquished by (sign	ature): Date/Time:	<b>1</b>	(signature); LUMU	w	Relin	quished	l by (si	znature	):	Date/	Time:	Recei	ved by	(signature):		
Relinquished by (signature): Date/Time: Received by (signature):				Relinquished by (signature):  Date/Time: Received by (signature):												
Report Type: (_)Full, (_)Reduced, (_)Standard, (_)Screen / non-certified Remarks:						كالمس	5 104	of snedule								
Turnaround time: (\( \sigma \)S	maround time: (Standard 4 wks, ()Rush Days, ()ASAP Verbal Hrs ide: Out/Low															



43.21

**LOCATION: CW-2** 

MW#: 30

NJDEP ID #: 2932594 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 11/24/98

WEATHER: Cool/Clear.

TIDE: Out/Low

ELEV. OF CASING SURVEY MARK: 51.71ft

**DEPTH TO WATER: 7.86 ft** DEPTH OF WELL: 17.95 ft HEIGHT OF WATER: 10.09 ft 10.09 X .65 X 3 = 19.68

GALLONS OF H2O TO BE PURGED: 20 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.00 ppm

PURGE START TIME: 08:58

6.69su

TEMP: 17.5 °C

DISSOLVED O2: 8.08 ppm

SPECIFIC CONDUCTIVITY: 929 us/cm

PURGE END TIME: 10:23

pH:

6.64su

TEMP: 16.4 °C

DISSOLVED O2: 8.17 ppm

SPECIFIC CONDUCTIVITY: 924 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 12.27ft

(SAMPLING METHOD: DEDICATED( LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 20.00 gal

pH: 6.63su TEMP: 16.2 °C

DISSOLVED O2: 8.26 ppm

SPECIFIC CONDUCTIVITY: 926 us/cm

COMMENTS:

**LOCATION: CW-2** 

MW#: 31

NJDEP ID #: 2932595 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 11/24/98

WEATHER: Cool/Clear.

TIDE: Out/Low

ELEV. OF CASING SURVEY MARK: 51.58ft

**DEPTH TO WATER: 7.78 ft**DEPTH OF WELL: 16.90 ft
HEIGHT OF WATER: 9.12 ft
9.12 X .65 X 3 = 17.78

GALLONS OF H2O TO BE PURGED: 18 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.00 ppm

PURGE START TIME: 11:02

pH: 6.83su

TEMP: 17.9 °C

DISSOLVED O2: 8.23 ppm

SPECIFIC CONDUCTIVITY: 734 us/cm

PURGE END TIME: 12:20

pH: 6.79su

pm. 0.798u

DISSOLVED O2: 8.70 ppm

TEMP: 16.4 °C

SPECIFIC CONDUCTIVITY: 735 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 11.05ft

(SAMPLING METHOD: DEDICATED( LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 18.00 gal

pH: 6.77su

TEMP: 16.1 °C

DISSOLVED O2: 8.72 ppm

SPECIFIC CONDUCTIVITY: 733 us/cm

COMMENTS: Dup Here.

**LOCATION: CW-2** 

MW#: 32

NJDEP ID #: 2932596 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 11/24/98

WEATHER: Cool/Clear.

TIDE: Out/Low

ELEV. OF CASING SURVEY MARK: 51.38ft

**DEPTH TO WATER: 7.94 ft** DEPTH OF WELL: 16.89 ft HEIGHT OF WATER: 8.95 ft

8.95 X .65 X 3 = 17.45

GALLONS OF H2O TO BE PURGED: 17 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.22 gpm Hnu READING: 0.00 ppm

PURGE START TIME: 09:07

pH: 6.77su TEMP: 17.7 °C

DISSOLVED O2: 8.98 ppm

SPECIFIC CONDUCTIVITY: 889 us/cm

PURGE END TIME: 10:21

pH: 6.72su

DISSOLVED O2: 9.10 ppm

TEMP: 16.5 °C

SPECIFIC CONDUCTIVITY: 890 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 15.86ft

(SAMPLING METHOD: DEDICATED( LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 17.00 gal

pH: 6.74su TEMP: 16.3 °C

DISSOLVED O2: 9.17 ppm

SPECIFIC CONDUCTIVITY: 894 us/cm

COMMENTS: Orange tinge/Particles.

**LOCATION: CW-2** 

MW#: 33

NJDEP ID #: 2932597 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 11/24/98

WEATHER: Cool/Clear.

TIDE: Low/Out

ELEV. OF CASING SURVEY MARK: 51.09ft

**DEPTH TO WATER:9.13 ft** DEPTH OF WELL: 16.10 ft HEIGHT OF WATER: 6.97 ft 6.97 X .65 X 3 = 13.59

GALLONS OF H2O TO BE PURGED: 14 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.00 ppm

PURGE START TIME: 09:11

pH: 6.81su TEMP: 17.2 °C

DISSOLVED O2: 8.42 ppm

SPECIFIC CONDUCTIVITY: 569 us/cm

PURGE END TIME: 10:12

pH: 6.80su

DISSOLVED O2: 8.63 ppm

TEMP: 16.6 °C

SPECIFIC CONDUCTIVITY: 580 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.39ft

(SAMPLING METHOD: DEDICATED( LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14.00 gal

pH: 6.82su TEMP: 16.3 °C

DISSOLVED O2: 8.59 ppm

SPECIFIC CONDUCTIVITY: 578 us/cm

COMMENTS: Orange tinge/Particles.

# **CASE NARRATIVE**

Site:

CW-2

Lab ID:

4083

The duplicate analysis was performed on MW-31 (4083.04).

## US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY **NJDEPE # 13461**

## **Definition of Qualifiers**

MDL: Method Detection Limit

: Compound identified below detection limit J

: Compound in both sample and blank B Ð

: Results from dilution of sample

U : Compound searched for but not detected

Data File Nam vb02245.d

Sample Name

Vblk67

Operator

Skelton

Field ID

Vblk67 1

Date Acquired 30 Nov 98 10:20 am

Sample Multiplier

Regulatory

					Level		
CAS#	Compound Name	R.T.	Response	Result	(ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected_	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane	-		not detected	11	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene	i		not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.4 <b>8 u</b> g/L	
127-18-4	Tetrachloroethene	]		not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene	ļ		not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	_
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan		·	not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## 1E **VOLATILE ORGANICS ANALYSIS DATA SHEET** TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL			Project	LTI	M	,	Vblk67	
NJDEP#	13461		Case No.: 408	3 SDG	No	L	ocation	CW2	
Matrix: (soil/	water)	WATER	<u>.                                      </u>	1	Lab Sa	mple ID:	Vblk67		
Sample wt/ve	ol:	5.0	(g/ml) <u>M</u> L	<u></u> _	Lab File	e ID:	VB0224	5.D	_
Level: (low/r	ned)	LOW		. [	Date R	eceived:	11/24/9	8	
% Moisture:	not dec.	·			Date A	nalyzed:	11/30/9	8	_
GC Column:	HP5M	<u>IS</u> ID: <u>I</u>	0.25 (mm)	[	Dilution	Factor:	1.0	·	_
Soil Extract \	/olume:		(uL)	_	Soil Alio	quot Volu	ıme:		_ (uL)
•				CONCENTR	ATION	UNITS:			
Number TICs	s found:	0		(ug/L or ug/K	(g)	UG/L			
CAS NO.		COMPO	OUND NAME		RT	ES	ST. CON	C.	Q

Data File Nam vb02255.d

Sample Name

4083.01 Trip Blank

Operator Skelton
Date Acquired 30 Nov 98 6:24 pm

Field ID Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein	10.1.	Response	not detected	50	1.85 ug/L	Zuminie.
107131	Acrylonitrile		<u>-</u>	not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	<del></del>
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
100203	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane		<del></del>	not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
			<del></del>	not detected	2	0.30 ug/L 0.24 ug/L	
75-35-4	1,1-Dichloroethene Acetone			not detected	700	0.24 ug/L 1.36 ug/L	
67-64-1				not detected	nle	0.46 ug/L	
75-15-0	Carbon Disulfide	-	<del></del>	not detected	nie 2	0.46 ug/L 0.24 ug/L	
75-09-2	Methylene Chloride			not detected	<del> </del>		
156-60-5	trans-1,2-Dichloroethene				100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected_	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected_	2	0.47 ug/L	
71-43-2	Benzene			not detected_	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
<u> 78-87-5</u>	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
	Ethylbenzene			not detected	700	0.65 ug/L	
	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene		<u> </u>	not detected	nle	0.62 ug/L	
100-42-5	Styrene	i		not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene		+	not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene	<del> </del>		not detected	75	0.57 ug/L	
100-40-7							

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL			Project	LTM		Tr	ip Blan	k
NJDEP#	13461	Case No	o.: 4083	_ SDG N	lo	Loc	ation	CW2	<u>.</u>
Matrix: (soil/	water)	WATER		La	ab Sample	e ID: 4	083.01		
Sample wt/v	ol:	5.0 (g/i	nl) <u>ML</u>	La	ab File 1D:	: <u>v</u>	B0225	5.D	_
Level: (low/	med)	LOW		D	ate Recei	ved: 1	1/24/98	3	_
% Moisture:	not dec.		_	D	ate Analy:	zed: 1	1/30/98	3	_
GC Column:	HP5M	S ID: 0.25	(mm)	D	ilution Fac	ctor: 1	.00		_
Soil Extract	Volume:	(u	_)	S	oil Aliquot	Volum	e:		_ (uL)
			CC	NCENTRA	TION UN	ITS:			
Number TICs	s found:	0	(ug	ı/L or ug/Kg	) <u>UG</u>	/L			
CAS NO.		COMPOUND	NAME		RT	EST.	CONC	<b>c.</b>	Q

Data File Nam vb02256.d

Sample Name

4083.02

Operator

Skelton

Field ID

Field Blank

Date Acquired 30 Nov 98 7:09 pm

Sample Multiplier

1

CAS#	Compound Name	R.T. Response	Result		Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein		not	detected	50	1.85 ug/L	
107131	Acrylonitrile		not	detected	50	2.78 ug/L	
75650	tert-Butyl alcohol		not	detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether		not	detected	nle	0.16 ug/L	
108203	Di-isopropyl ether		<del></del>	detected	nle	0.25 ug/L	
100202	Dichlorodifluoromethan			detected	nle	1.68 ug/L	
74-87-3	Chloromethane		not	detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride		not	detected	5	1.06 ug/L	
74-83-9	Bromomethane		not	detected	10	1.10 ug/L	
75-00-3	Chloroethane			detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			detected	2	0.24 ug/L	
67-64-1	Acetone			detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide	<del></del>		detected	nle	0.46 ug/L	
75-13 <b>-</b> 0	Methylene Chloride			detected	2	0.43 ug/L	
				detected	100	0.16 ug/L	<del></del>
156-60-5 75-35-3	trans-1,2-Dichloroethene			detected	70		
	1,1-Dichloroethane			<del></del>		0.12 ug/L	
108-05-4	Vinyl Acetate			detected	nle	0.78 ug/L	
78-93-3	2-Butanone			detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			detected	10	0.17 ug/L	
67-66-3	Chloroform		<del></del>	detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			detected	2	0.47 ug/L	
71-43-2	Benzene			detected	1	0.23 ug/L	<del></del>
107-06-2	1,2-Dichloroethane	<del></del>		detected	2	0.18 ug/L	
79-01-6	Trichloroethene			detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			detected	1 1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			detected	nle	0.65 ug/L	
	cis-1,3-Dichloropropene		<del></del>	detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			detected	400	0.59 ug/L	
108-88-3	Toluene		·	detected	1000	0.37 ug/L	
	trans-1,3-Dichloroprope			detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			detected	1	0.32 ug/L	
591-78-6	2-Hexanone		not	detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			detected	4	0.39 ug/L	
100-41-4	Ethylbenzene		· ·	detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			detected	nle	1.14 ug/L	
1330-20-7	o-Xylene		not	detected	nle	0.62 ug/L	
100-42-5	Styrene		not	detected	100	0.56 ug/L	
75-25-2	Bromoform		not	detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan		not	detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene		not	detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene		not	detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene		not	detected	600	0.64 ug/L	

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL	, 		Project	LTM			ia Biai	nk
NJDEP#	13461	Case I	No.: 4083	SDG	No	_ Lo	cation	CW2	
Matrix: (soil/	water)	WATER	-	La	ab Sample	D: 4	4083.02	! 	
Sample wt/v	ol:	5.0 (0	ı/ml) ML	L:	ab File ID:	<u> </u>	VB0225	6.D	_
Level: (low/	med)	LOW		D	ate Receiv	/ed: <u></u>	11/24/98	3	_
% Moisture:	not dec.			D	ate Analyz	zed: _	11/30/98	3	
GC Column:	HP5M	S' ID: 0.25	(mm)	D	ilution Fac	tor: _	1.0		_
Soil Extract	Volume:	(	uL)	S	oil Aliquot	Volun	ne:		_ (uL)
			co	ONCENTRA	TION UN	ITS:			
Number TIC:	s found:	0	(uç	g/L or ug/Kg	) <u>UG</u>	<u>′L</u>	· ·		
CAS NO.		COMPOUND	NAME		RT	EST	CONC	s.	Q

Data File Nam vb02257.d

Sample Name

4083.03

Operator Skelton
Date Acquired 30 Nov 98 7:54 pm

Field ID Sample Multiplier MW30

Regulatory Level MDL <u>Qualifier</u> Compound Name Result (ug/I)\* Response CAS# not detected 50 1.85 ug/L 107028 Acrolein not detected 50 2.78 ug/L 107131 Acrylonitrile not detected 8.52 ug/L 75650 tert-Butyl alcohol nle not detected 0.16 ug/L 1634044 Methyl-tert-Butyl ether nle not detected nle 0.25 ug/L 108203 Di-isopropyl ether not detected nle 1.68 ug/L Dichlorodifluoromethan not detected 30 1.16 ug/L 74-87-3 Chloromethane not detected 5 1.06 ug/L 75-01-4 Vinyl Chloride 10 1.10 ug/L not detected Bromomethane 74-83-9 not detected nle 1.01 ug/L 75-00-3 Chloroethane not detected 0.50 ug/L nle 75-69-4 Trichlorofluoromethane 0.24 ug/L 75-35-4 1,1-Dichloroethene not detected 2 not detected 700 1.36 ug/L 67-64-1 Acetone 0.46 ug/L 75-15-0 Carbon Disulfide not detected nle not detected 0.24 ug/L 75-09-2 Methylene Chloride not detected 100 0.16 ug/L trans-1,2-Dichloroethene 156-60-5 not detected 70 0.12 ug/L 75-35-3 1,1-Dichloroethane not detected nle 0.78 ug/L 108-05-4 Vinyl Acetate 300 not detected 0.62 ug/L 78-93-3 2-Butanone not detected 10 0.17 ug/L cis-1,2-Dichloroethene not detected 6 0.30 ug/L 67-66-3 Chloroform 30 75-55-6 1,1,1-Trichloroethane not detected 0.23 ug/L56-23-5 Carbon Tetrachloride not detected 2 0.47 ug/L Benzene not detected 0.23 ug/L 71-43-2 not detected 2 0.18 ug/L 1,2-Dichloroethane 107-06-2 not detected 0.23 ug/L 79-01-6 Trichloroethene not detected 0.40 ug/L 78-87-5 1,2-Dichloropropane not detected 1 0.55 ug/L 75-27-4 Bromodichloromethane not detected 0.65 ug/L nle 110-75-8 2-Chloroethyl vinyl ethe not detected nle 0.69 ug/L10061-01-5 cis-1,3-Dichloropropene not detected 400 0.59 ug/L 108-10-1 4-Methyl-2-Pentanone not detected 1000 0.37 ug/L 108-88-3 Toluene not detected nle 0.87 ug/L 10061-02-6 trans-1,3-Dichloroprope 0.48 ug/L 1,1,2-Trichloroethane not detected 79-00-5 127-18-4 Tetrachloroethene not detected 0.32 ug/L not detected nle 0.71\_ug/L 591-78-6 2-Hexanone 10 Dibromochloromethane not detected 0.86 ug/L 126-48-1 not detected 4 0.39 ug/L 108-90-7 Chlorobenzene 700 not detected 0.65 ug/L 100-41-4 Ethylbenzene not detected nle 1.14 ug/L 1330-20-7 m+p-Xylenes 0.62 ug/L not detected nle o-Xylene 1330-20-7 not detected 100 Styrene 0.56 ug/L 100-42-5 not detected 75-25-2 4 0.70 ug/L Bromoform not detected 2 0.47 ug/L 79-34-5 1,1,2,2-Tetrachloroethan 541-73-1 1,3-Dichlorobenzene not detected 600 0.55 ug/L 0.57 ug/L not detected 75 106-46-7 1,4-Dichlorobenzene not detected 600 1.2-Dichlorobenzene 0.64 ug/L 95-50-1

\* Higher of POL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

# VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL			P	roject	LTM		_	MIVV3U	<u>'</u>
NJDEP#	13461	Cas	se No.: 4083	3	SDG N	10	Lo	ocation	CW2	<u>!</u>
Matrix: (soil/	water)	WATER			La	ab Sample	iD:	4083.03	3	
Sample wt/v	ol:	5.0	(g/ml) ML		L	ab File ID:		VB0225	7.D	
Level: (low/r	med)	LOW			D	ate Receiv	ved:	11/24/9	8	
% Moisture:	not dec.				Đ	ate Analyz	zed:	11/30/9	8	
GC Column:	HP5M	S ID: 0.2	25_ (mm)		Đ	ilution Fac	ctor:	1.0		<del></del>
Soil Extract	Volume:		(uL)		S	oil Aliquot	Volu	ıme:		(uL)
Number TIC	s found:	0	_		ENTRA or ug/Kg	(TION UN () UG				
CAS NO.		COMPOU	ND NAME			RT	ES	ST. CON	c.	Q

Data File Nam vb02258.d

Sample Name

4083.04

Operator

Skelton

Field ID

MW31

Date Acquired 30 Nov 98 8:38 pm

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result		Regulatory Level (ug/l)	MDL	Qualifier
107028	Acrolein	10.11	гсороже	not detec	ted	50	1.85 ug/L	
107028	Acrylonitrile			not detec	-	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detec		nie	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detec		nle	0.16 ug/L	
108203	Di-isopropyl ether			not detec		nle	0.25 ug/L	
108203	Dichlorodifluoromethan			not detec		nle	1.68 ug/L	
74-87-3	Chloromethane			not detec		30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detec		5	1.06 ug/L	
74-83-9	Bromomethane			not detec		10	1.10 ug/L	
75-00-3	Chloroethane			not detec		nle	1.01 ug/L	
				not detec		nle	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detec		2	0.24 ug/L	
75-35-4	1,1-Dichloroethene			not detec		700	1.36 ug/L	
67-64-1	Acetone			not detec		nle	0.46 ug/L	
75-15-0	Carbon Disulfide			not detec		2	0.40 ug/L 0.24 ug/L	<u> </u>
75-09-2	Methylene Chloride			not detec		100	0.16 ug/L	<del></del>
156-60-5	trans-1,2-Dichloroethene						0.10 ug/L 0.12 ug/L	
75-35-3	1,1-Dichloroethane			not detec		70 nle	0.12 ug/L 0.78 ug/L	
108-05-4	Vinyl Acetate						0.78 ug/L 0.62 ug/L	
78-93-3	2-Butanone			not detec		300		
	cis-1,2-Dichloroethene			not detec		10	0.17 ug/L	
67-66-3	Chloroform			not detec		6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detec	_	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detec		2	0.47 ug/L	
71-43-2	Benzene			not detec		1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detec		2	0.18 ug/L	
79-01-6	Trichloroethene			not detec		1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detec		11	0.40 ug/L	-
75-27-4	Bromodichloromethane			not detec		1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe			not detec		nle	0.65 ug/L	· · · · · · · · · · · · · · · · · · ·
	cis-1,3-Dichloropropene	-		not detec		nle	0.69 ug/L	<u> </u>
108-10-1	4-Methyl-2-Pentanone			not detec		400	0.59 ug/L	
108-88-3	Toluene			not detec		1000	0.37 ug/L	
	trans-1,3-Dichloroprope			not detec		nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detec		3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detec		1	0.32 ug/L	
591-78-6	2-Hexanone			not detec		nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detec		10	0.86 ug/L	
108-90-7	Chlorobenzene			not detec		4	0.39 ug/L	
100-41-4	Ethylbenzene			not detec		700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detec		nle	1.14 ug/L	
1330-20-7	o-Xylene			not detec		nle	0.62 ug/L	
100-42-5	Styrene			not detec		100	0.56 ug/L	
75-25-2	Bromoform			not detec	ted	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detec	ted	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detec	ted	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detec	ted	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detec	ted	600	0.64 ug/L	

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

# **VOLATILE ORGANICS ANALYSIS DATA SHEET**

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

EST. CONC.

I ENTANTE DE LA	11 125 COIM COMP	MW31
Lab Name: FMETL	Project LTM	MAAA
NJDEP# <u>13461</u> Case No.: <u>4083</u>	SDG No Loc	ation CW2
Matrix: (soil/water) WATER	Lab Sample ID: 4	083.04
Sample wt/vol: 5.0 (g/ml) ML	Lab File ID: V	B02258.D
Level: (low/med) LOW	Date Received: 1	1/24/98
% Moisture: not dec.	Date Analyzed: 1	1/30/98
GC Column: HP5MS ID: 0.25 (mm)	Dilution Factor: 1	.0
Soil Extract Volume: (uL)	Soil Aliquot Volum	e: (uL)
Number TICs found: 0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	

COMPOUND NAME

CAS NO.

RT

Data File Nam vb02259.d

Sample Name

4083.05

Operator

Skelton

Field ID

MW32

Date Acquired 30 Nov 98 9:23 pm

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein	2021	1	not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
108203	Dichlorodifluoromethan			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chioroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1.1-Dichloroethene			not detected	2	0.24 ug/L	-
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide		<del>  </del>	not detected	nle	0.46 ug/L	
75-13-0 75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene		<del></del>	not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
			<del> </del>	not detected	300	0.62 ug/L	
78-93-3	2-Butanone		<del> </del>	not detected	10	0.17 ug/L	
67.66.2	cis-1,2-Dichloroethene	<del></del>		not detected	6	0.30 ug/L	
67-66-3	Chloroform		<del> </del>	not detected	30	0.23 ug/L	
75-55-6	1,1,1-Trichloroethane		<del>  -</del>	not detected	2	0.23 ug/L 0.47 ug/L	
56-23-5	Carbon Tetrachloride		<del> </del>	not detected	1	0.47 ug/L 0.23 ug/L	
71-43-2	Benzene		<u> </u>			0.23 ug/L 0.18 ug/L	·
107-06-2	1,2-Dichloroethane		<del> </del>	not detected	2		
79-01-6	Trichloroethene		<del> </del>	not detected	1 1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L 0.55 ug/L	
75-27-4	Bromodichloromethane		<del> </del>	not detected	<del></del>		
110-75-8	2-Chloroethyl vinyl ethe			not detected	nle	0.65 ug/L	
	cis-1,3-Dichloropropene			not detected_	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene		-	not detected	1000	0.37 ug/L	
	trans-1,3-Dichloroprope			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane	<u> </u>		not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	<del></del>
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene		<u> </u>	not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	l
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

# VOLATILE ORGANICS ANALYSIS DATA SHEET

## TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL		·	Project	LTM		ė	MW32	
NJDEP#	13461	Ca	se No.: 4083	SDG I	No	_ Lo	cation		
Matrix: (soil/	water)	WATER	<b>_</b>	L	ab Sample	ID:	4083.05	5	
Sample wt/v	ol:	5.0	(g/ml) ML	L	ab File ID:		VB0225	9.D	
Level: (low/	med)	LOW	_		ate Recei	ved:	11/24/9	8	
% Moisture:	not dec.	<u> </u>			ate Anaiyz	zed:	11/30/9	8	_
GC Column:	HP5M	S ID: 0.1	25 (mm)	D	ilution Fac	ctor:	1.0		_
Soil Extract	Volume:		(uL)	S	oil Aliquot	Volu	me:		_ (uL)
	· ·	•	•	CONCENTRA	ATION UN	ITS:			
Number TIC	s found:	0	<u> </u>	(ug/L or ug/K	g) <u>UG</u>	/L			
CAS NO.		COMPOL	JND NAME		RT	ES	T. CON	c.	Q

Data File Nam vb02260.d

Sample Name

4083.06

Operator

Skelton

Field ID

MW33

Date Acquired 30 Nov 98 10:08 pm

Sample Multiplier

1

CAS#	Compound Name	R.T.	Response	Result		Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not	detected	50	1.85 ug/L	
107131	Acrylonitrile			not	detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not	detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not	detected	nle	0.16 ug/L	
108203	Di-isopropyl ether				detected	nle	0.25 ug/L	•
108203	Dichlorodifluoromethan				detected	nle	1.68 ug/L	-
74-87-3	Chloromethane				detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not	detected	5	1.06 ug/L	
74-83-9	Bromomethane			not	detected	10	1.10 ug/L	
75-00-3	Chloroethane			not	detected	nle	1.01 ug/L	
	Trichlorofluoromethane				detected	nle	0.50 ug/L	
75-69-4		-,			detected	2	0.24 ug/L	
75-35-4	1,I-Dichloroethene				detected	700	1.36 ug/L	<del></del>
67-64-1	Acetone				detected	nle	0.46 ug/L	
75-15-0	Carbon Disulfide				detected	2	0.46 ug/L	
75-09-2	Methylene Chloride				-	<del>                                     </del>	0.16 ug/L	
156-60-5	trans-1,2-Dichloroethene				detected	100		
75-35-3	1,1-Dichloroethane				detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate				detected	nle	0.78 ug/L 0.62 ug/L	
78-93-3	2-Butanone				detected	300		
	cis-1,2-Dichloroethene				detected detected	10 6	0.17 ug/L 0.30 ug/L	· · ·
67-66-3	Chloroform					30		
75-55-6	1,1,1-Trichloroethane				detected		0.23 ug/L	
56-23-5	Carbon Tetrachloride				detected	2	0.47 ug/L	
71-43-2	Benzene				detected	1 1	0.23 ug/L	
107-06-2	1,2-Dichloroethane				detected	2	0.18 ug/L	
79-01 <b>-</b> 6	Trichloroethene	_			detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane				detected	1	0.40 ug/L	
75-2 <u>7-4</u>	Bromodichloromethane				detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ethe				detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene				detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone				detected	400	0.59 ug/L	
108-88-3	Toluene				detected	1000	0.37 ug/L	
10061-02-6					detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane				detected	3	0.48 ug/L	<u> </u>
127-18-4	Tetrachloroethene				detected	1	0.32 ug/L	
591-78-6	2-Hexanone				detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane				detected	10	0.86 ug/L	
108-90-7	Chlorobenzene				detected	4	0.39 ug/L	
100-41-4	Ethylbenzene				detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes				detected	nie	1.14 ug/L	
1330-20-7	o-Xylene				detected	nle	0.62 ug/L	
100-42-5	Styrene				detected	100	0.56 ug/L	
75-25-2	Bromoform			not	detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethan			not	detected	2	0.47 <b>ug/</b> L	
541-73-1	1,3-Dichlorobenzene			not	detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not	detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not	detected	600	0.64 <b>ug/</b> L	

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

# VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID	)
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Lab Name:	FMETL		Project	LTM		IV	1W33	
NJDEP#	13461	Case No.: 4083	_ _ SDG N	10	Loc	cation	CW2	
Matrix: (soil/	water)	WATER	L	ab Sample	ID: 4	1083.06		
Sample wt/v	ol:	5.0 (g/ml) ML	La	ab File ID:	<u>\</u>	/B02260	D.D	_
Level: (low/	med)	LOW	D	ate Receiv	/ed: <u>1</u>	11/24/98		_
% Moisture:	not dec.		D	ate Analyz	ed: 1	1/30/98		<del></del>
GC Column:	HP5M	S ID: 0.25 (mm)	D	ilution Fac	tor: 1	1.0		_
Soil Extract Volume		(uL)	s	oil Aliquot	Volun	ne:		_ (uL)
		CC	NCENTRA	TION UNI	TS:			
Number TIC	s found:	0 (uç	₃/L or ug/Kç	ı) <u>UG</u>	<b>/</b> L			<u> </u>
CAS NO.		COMPOUND NAME		RT	EST	r. conc		Q

Data File Nam vb02261.d

Sample Name

4083.07

Operator Skelton
Date Acquired 1 Dec 98 7:37 am

Field ID
Sample Multiplier

Dupe 1

Regulatory Level MDL Qualifier Result (ug/l)\* CAS# Compound Name R.T. Response not detected 50 1.85 ug/L 107028 Acrolein not detected 50 2.78 ug/L Acrylonitrile 107131 not detected 8.52 ug/L tert-Butyl alcohol nle 75650 not detected nle 0.16 ug/L Methyl-tert-Butyl ether 1634044 not detected nle 0.25 ug/L 108203 Di-isopropyl ether not detected 1.68 ug/L Dichlorodifluoromethan nle not detected 30 1.16 ug/L 74-87-3 Chloromethane not detected 5 1.06 ug/L 75-01-4 Vinyl Chloride not detected 10 1.10 ug/L Bromomethane 74-83-9 not detected nle 1.01 ug/L 75-00-3 Chloroethane not detected 0.50 ug/L nle 75-69-4 Trichlorofluoromethane not detected 0.24 ug/L 75-35-4 1,1-Dichloroethene 2 67-64-1 not detected 700 1.36 ug/L Acetone not detected Carbon Disulfide nle 0.46 ug/L 75-15-0 Methylene Chloride not detected 0.24 ug/L 75-09-2 not detected 100 0.16 ug/L trans-1,2-Dichloroethene 156-60-5 not detected 70 0.12 ug/L 75-35-3 1,1-Dichloroethane not detected nle 0.78 ug/L 108-05-4 Vinyl Acetate 300 0.62 ug/L not detected 78-93-3 2-Butanone cis-1,2-Dichloroethene not detected 10 0.17 ug/L not detected 6 0.30 ug/L 67-66-3 Chloroform not detected 30 75-55-6 1,1,1-Trichloroethane 0.23 ug/L 56-23-5 Carbon Tetrachloride not detected 2 0.47 ug/L not detected 0.23 ug/L 71-43-2 Benzene 2 not detected 0.18 ug/L 107-06-2 1,2-Dichloroethane not detected 1 0.23 ug/L 79-01-6 Trichloroethene not detected 1 0.40 ug/L 78-87-5 1,2-Dichloropropane not detected 1 0.55 ug/L 75-27-4 Bromodichloromethane 0.65 ug/L not detected nle 2-Chloroethyl vinyl ethe 110-75-8 10061-01-5 cis-1,3-Dichloropropene not detected nle 0.69 ug/L not detected 400 0.59 ug/L 4-Methyl-2-Pentanone 108-10-1 1000 Toluene not detected 0.37 ug/L 108-88-3 trans-1,3-Dichloroprope not detected nle 0.87 ug/L .0061-02-6 not detected 3 0.48 ug/L 79-00-5 1,1,2-Trichloroethane not detected 0.32 ug/L 127-18-4 Tetrachloroethene 591-78-6 not detected nle 0.71 ug/L 2-Hexanone not detected Dibromochloromethane 10 0.86 ug/L 126-48-1 108-90-7 not detected 4 0.39 ug/L Chlorobenzene 700 not detected 0.65 ug/L 100-41-4 Ethylbenzene 1330-20-7 m+p-Xylenes not detected nle 1.14 ug/L not detected nle 0.62 ug/L 1330-20-7 o-Xylene not detected 100 0.56 ug/L 100-42-5 Styrene 75-25-2 not detected 4 0.70 ug/Li Bromoform not detected 0.47 ug/L 79-34-5 1,1,2,2-Tetrachloroethan 600 541-73-1 1,3-Dichlorobenzene not detected 0.55 ug/L not detected 75 0.57 ug/L 106-46-7 1,4-Dichlorobenzene not detected 600 0.64 ug/L 95-50-1 1.2-Dichlorobenzene \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### Do and Ground Water Quartey Criteria as per 14.5.71.0. 7.5

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

POL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL		Project	LTM		Dup	e
NJDEP#	13461	Case No.: 4083	SDG	No	Loc	ation <u>CW</u>	/2
Matrix: (soil/	water)	WATER _	Ę	ab Sample	D: 4	083.07	<del> </del>
Sample wt/v	ol:	5.0 (g/ml) ML	L	ab File ID:	. <u>v</u>	B02261.D	
Level: (low/i	med)	LOW		Date Recei	ved: <u>1</u>	1/24/98	
% Moisture:	not dec.		r	Date Analyz	zed: <u>1</u>	2/01/98	
GC Column:	HP5M	S ID: 0.25 (mm)		Dilution Fac	ctor: 1	.0	
Soil Extract	Volume:	(uL)	. \$	Soil Aliquot	Volum	ne:	(uL)
		C	ONCENTR	ATION UN	ITS:		
Number TIC	s found:	0	ug/L or ug/K	g) <u>UG</u>	/L		
CAS NO.		COMPOUND NAME		RT	EST	. CONC.	Q

Data File Name BNA01477.D

Sample Name

Sblk172

Operator

Date Acquired

Skelton

Misc Info 2 Dec 1998 3:32 pm

Sblk172 A 981130 Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/t)*	MDL		Qualifier
110-86-1	Pyridine			not detected	NLE	2.52	ne/L	_ <del> </del>
62-75-9	N-nitroso-dimethylamine			not detected	20	2,64		
62-53-3	Aniline			not detected	NLE	2.90		
108-95-2	Phenol			not detected	4000	1.11		
111-44-4	bis(2-Chloroethyl)ether	1		not detected	10	2.45		
95-57-8	2-Chlorophenol			not detected	40		ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65		
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50 t	_	
100-51-6	Benzyl alcohol	<del>                                     </del>		not detected	NLE		ug/L	
95-50-1	1,2-Dichlorobenzene	1 1		not detected	600		ıg/L	
	2-Methylphenol	1		not detected	NLE	2.09 t	_	
108-60-1	bis(2-chloroisopropyl)ether	1 1		not detected	300			
	4-Methylphenol	1		not detected	T	2,96 u	_	
621-64-7	n-Nitroso-di-n-propylamine	+ - 1			NLE	1.72 u	~	
67-72-1	Hexachloroethane	1		not detected	20	2.22 u		
98-95-3	Nitrobenzene	1	**	not detected	10	2.59 v	~	
78-59-1		+		not detected	10	2.45 u		<del></del>
88-75-5	Isophorone	╅		not detected	100	2.31 u		
105-67-9	2-Nitrophenol	╅╾╌		not detected	NLE	1.72 บ	_	
111-91-1	2,4-Dimethylphenol	1		not detected	100	2.42 u		
120-83-2	bis(2-Chloroethoxy)methane 2,4-Dichlorophenol	+		not detected	NLE	2.54 u	-	<del></del>
65-85-0	Benzoic Acid	+ +		not detected	20	1.79 u	_	
120-82-1	1,2,4-Trichlorobenzene	<del>                                     </del>		not detected	NLE		ig/L	
91-20-3	Naphthalene	1		not detected	9	2.58 u		
106-47-8	4-Chloroaniline	+ +	<del>-</del>	not detected	NLE	3.03 u		<del></del>
	<u> </u>	<del>                                     </del>		not detected	NLE	2.55 u		
87-68-3 59-50-7	Hexachlorobutadiene	1 1		not detected	1 1	0.64 u		<del></del>
91-57-6	4-Chloro-3-methylphenol	1		not detected	NLE	1.46 u		
77-47-4	2-Methylnaphthalene	╀		not detected	NLE	2.49 ц	~ +	
88-06-2	Hexachlorocyclopentadiene	┼		not detected	50	1.59 u		
88-00-2	2,4,6-Trichlorophenol	+ +		not detected	20	1.66 u	$\overline{}$	
91-58-7	2,4,5-Trichlorophenol 2-Chloronaphthalene	╂		not detected	700	1.63 u	_	
88-74-4	2-Nitroaniline	<del>                                     </del>		not detected	NLE	2.15 u	_	
131-11-3	Dimethylphthalate	<del>                                     </del>		not detected	NLE	1.62 u	_	
208-96-8	†	1		not detected	7000	2.74 u	$\overline{}$	·
606-20-2	Acenaphthylene	<del> </del>		not detected	NLE	2.35 u	~	
99-09-2	2,6-Dinitrotoluene 3-Nitroaniline	+-+		not detected	NLE	1.54 u	$\overline{}$	
83-32-9	T	<del>├</del>		not detected	NLE	1.62 u		
51-28-5	Acenaphthene	<del>                                     </del>		not detected	400	1.98 u		
	2,4-Dinitrophenol	┼	<del></del>  -	not detected	40	1.65 ա	g/L	
132-64-9	Dibenzofuran	<del>                                     </del>		not detected	NLE	2.13 u	g/L	
100-02-7	4-Nitrophenol	<u>i</u>	<u> </u>	not detected	NLE	1.31 u	g/L	

Page 1 of 2

Data File Name BNA01477.D

Date Acquired

Operator

Skelton

2 Dec 1998 3:32 pm

Sample Name

Sblk172

Misc Info

Sblk172 A 981130

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	***
86-73-7	Fluorene			not detected	300	1.93	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1,53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE		ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE		ug/L	
118-74-1	Hexachlorobenzene			not detected	10		ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83	ug/L	
206-44-0	Fluoranthene			not detected	300		ug/L	
92-87-5	Benzidine			not detected	50	4.11		
129-00-0	Pyrene			not detected	200	1.02	ug/L	************
85-68-7	Butylbenzyiphthalate			not detected	100	1.15	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28	ug/L	
218-01-9	Chrysene			not detected	20	2.32	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	_	
117-84-0	Di-n-octylphthalate			not detected	100	1.30		
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31		
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57		
50-32-8	Benzo[a]pyrene			not detected	20	1.36		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	_	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13		

Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		Lab Co	de 134	31	Sblk17	<b>'2</b>
Project	LTM	Case No.: 4083	 Loca	tion <u>CV</u>	V-2 S	DG No.:	
Matrix: (soil/	water)	WATER		Lab San	nple ID:	Sblk172	
Sample wt/vo	ol:	1000 (g/ml) ML		Lab File	ID:	BNA01477.D	
Level: (low/r	ned)	LOW		Date Re	ceived:	11/24/98	
% Moisture:		decanted: (Y/N)	N	Date Ext	racted:	11/30/98	
Concentrated	d Extract	Volume: <u>1000</u> (uL)	1	Date An	alyzed:	12/02/98	
Injection Volu	ume: <u>1.</u>	0 (uL)	I	Dilution	Factor:	1.0	
GPC Cleanu	p: (Y/N)	NpH: <u>7</u>					
			CONCE	NTRATI	ON UNI	TS:	
Number TICs	s found:	0	(ug/L or	ug/Kg)	UG/	L	
CAS NUME	BER	COMPOUND NAME		RT	ES	ST. CONC.	Q

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name bna01481.d

Skelton

Sample Name Misc Info 4083.02 Field Blank

Operator

Date Acquired

2 Dec 1998 6:23 pm

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE		ug/L	
108-95-2	Phenol			not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	· -	ug/L	
95-57-8	2-Chlorophenol			not detected	40		ng/L	
541-73-1	1,3-Dichlorobenzene			not detected	600		ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75		ug/L	
100-51-6	Benzyl alcohol			not detected	NLE		ug/L	
95-50-1	1,2-Dichlorobenzene		•	not detected	600		ug/L	
	2-Methylphenol			not detected	NLE	-	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96		
	4-Methylphenol	1		not detected	NLE		ug/L	
621-64-7	n-Nitroso-di-n-propylamine	<del>                                     </del>		not detected	20	2.22		
67-72-1	Hexachloroethane	1		not detected	10	2.59		
98-95-3	Nitrobenzene	1		not detected	10	2.45	_	
78-59-1	Isophorone			not detected	100	2.31		
88-75-5	2-Nitrophenol	1	···	not detected	NLE	1.72	_	
105-67-9	2,4-Dimethylphenol	1		not detected	100	2.42		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54		
120-83-2	2,4-Dichlorophenol	1 1		not detected	20	1.79		
65-85-0	Benzoic Acid			not detected	NLE		ug/L	<del> </del>
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2.58		
91-20-3	Naphthalene	1 1		not detected	NLE			
106-47-8	4-Chloroaniline	1 1		not detected	NLE	3.03		
87-68-3	Hexachlorobutadiene	1		not detected	I I	2.55 0,64		
59-50-7	4-Chloro-3-methylphenol	<del>                                     </del>	-	not detected			<del></del>	
91-57-6	2-Methylnaphthalene	+ +		not detected	NLE	1.46 2.49	$\rightarrow$	
77-47-4	Hexachlorocyclopentadiene	<del>  </del>		not detected	NLE 50		ug/L ug/L	
88-06-2	2,4,6-Trichlorophenol	1 1		not detected	20	1.66		<del></del>
	2,4,5-Trichlorophenol	1		not detected	700			
91-58-7	2-Chloronaphthalene	<del>                                     </del>		not detected	NLE	2.15	ug/L	
88-74-4	2-Nitroaniline	1		not detected	NLE NLE		ug/L ug/L	
131-11-3	Dimethylphthalate	<del>   </del>		not detected	7000		ug/L ug/L	
208-96-8	Acenaphthylene	†		not detected	NLE	2.35		
606-20-2	2,6-Dinitrotoluene	†		not detected	NLE NLE	1.54		
99-09-2	3-Nitroaniline	1 1		not detected	NLE	1.62		
83-32-9	Acenaphthene	† †		not detected	400	1.98		
51-28-5	2,4-Dinitrophenol			not detected				
132-64-9	Dibenzofuran	1 1		not detected	40 NUT	1.65		
100-02-7	4-Nitrophenol	<del>   </del>		not detected	NLE	2.13		
	- A TOTAL PROPERTY.		**	not detected	NLE	1.31 Page 1 of 2		

Page 1 of 2

Data File Name

bna01481.d

Operator Date Acquired Skelton

2 Dec 1998 6:23 pm

Sample Name

4083.02

Misc Info

Field Blank

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68	ug/L	
86-73-7	Fluorene			not detected	300	1.93		
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	_	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73		
103-33-3	Azobenzene			not detected	NLE	1.92	Ī	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54		
118-74-1	Hexachlorobenzene			not detected	10	1.88		
87-86-5	Pentachlorophenol			not detected	1	0.55		
85-01-8	Phenanthrene			not detected	NLE	1.67	_	
120-12-7	Anthracene			not detected	2000	1.79		
84-74-2	Di-n-butylphthalate			not detected	900	1.83	_	
206-44-0	Fluoranthene			not detected	300	1.85		
92-87-5	Benzidine			not detected	50	4.11		
129-00-0	Pyrene			not detected	200	1,02 1	_	
85-68-7	Butylbenzylphthalate			not detected	100	1.15		
56-55-3	Benzo[a]anthracene			not detected	10	1.57		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28 ι	ug/L	
218-01-9	Chrysene			not detected	20	2.32 ι	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29 ı	ug/L	
117-84-0	Di-n-octylphthalate	<u> </u>		not detected	100	1.30 t	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31 u	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57 t	-	
50-32-8	Benzo[a]pyrene			not detected	20	1.36 u		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20		ıg/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12 u	ıg/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13 u		· ·

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

							lank
Lab Name:	FMETL		_ Lab Co	de <u>13461</u>		Field B	Idlik
Project	LTM	Case No.: 4083	Loca	tion <u>CW-2</u>	SD	OG No.;	
Matrix: (soil/	water)	WATER		Lab Sample	ID: 4	4083.02	
Sample wt/ve	ol:	1000 (g/ml) ML		Lab File ID:	1	BNA01481.C	)
Level: (low/r	med)	LOW		Date Receive	ed: [	11/24/98	
% Moisture:		decanted: (Y/N)	N	Date Extract	ed: '	11/30/98	
Concentrated	d Extract	Volume: <u>1000</u> (uL)		Date Analyze	ed: _'	12/02/98	
Injection Volu	ume: 1,	0 (uL)		Dilution Fact	or: _	1.0	
GPC Cleanu	p: <b>(Y/N)</b>	pH:					
			CONCE	NTRATION (	JNIT:	S:	
Number TICs	s found:	0	(ug/L or	ug/Kg) <u>l</u>	JG/L		
CAS NUME	BER	COMPOUND NAME		RT	EST	CONC.	Q

#### Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name bna01482.d

Sample Name Misc Info

4083,03 MW30

Operator Date Acquired Skelton

2 Dec 1998 7:05 pm

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifier
110-86-1	Pyridine			not detected	NLE	2,52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64	ug/L	
62-53-3	Aniline			not detected	NLE	2.90	ug/L	· ·
108-95-2	Phenol			not detected	4000	1.11		
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45	-	
95-57-8	2-Chlorophenol	1		not detected	40	1.92	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2.65	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2,50		
100-51-6	Benzyl alcohol			not detected	NLE			
95-50-1	1,2-Dichlorobenzene			not detected	600		ug/L	
	2-Methylphenol			not detected	NLE		ug/L	
108-60-1	bis(2-chloroisopropyl)ether	Ţ <u> </u>		not detected	300		ug/L	
	4-Methylphenol			not detected	NLE	******	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20			
67-72-1	Hexachloroethane			not detected	10		ug/L	
98-95-3	Nitrobenzene			not detected	10		ug/L	
78-59-1	Isophorone			not detected	100		ug/L	-,,-
88-75-5	2-Nitrophenol			not detected	NLE	_	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100		ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE		ug/L	
120-83-2	2,4-Dichlorophenol		<del></del>	not detected	20	1.79		*- 1
65-85-0	Benzoic Acid			not detected	NLE	0.71		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2,58		
91-20-3	Naphthalene			not detected	NLE	3.03		
106-47-8	4-Chloroaniline			not detected	NLE	2.55		
87-68-3	Hexachlorobutadiene		<u> </u>	not detected	1	0.64		
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46		
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49		
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59		· · · · · · · · · · · · · · · · · · ·
88-06-2	2,4,6-Trichlorophenol		1	not detected	20	1.66		-
***	2,4,5-Trichlorophenol			not detected	700	1.63		-
91-58-7	2-Chloronaphthalene			not detected	NLE	2,15		
88-74-4	2-Nitroaniline			not detected	NLE	1.62		
131-11-3	Dimethylphthalate			not detected	7000	2.74		-
208-96-8	Acenaphthylene			not detected	NLE	2.35		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54		
99-09-2	3-Nitroaniline			not detected	NLE	1.62		
83-32-9	Acenaphthene			not detected	400	1.98		
51-28-5	2,4-Dinitrophenol	<del>                                     </del>		not detected	400	1.65		<del></del>
132-64-9	Dibenzofuran	<del>                                     </del>		not detected	NLE	2.13		
100-02-7	4-Nitrophenol			not detected	74TG	4.13	nR.T	

Page 1 of 2

Data File Name bna01482.d

Date Acquired

Operator

Skelton

2 Dec 1998 7:05 pm

Sample Name

4083.03

Misc Info

MW30

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate			not detected	5000		ug/L	
86-73-7	Fluorene			not detected	300		ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1,53	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92		
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88	ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55		
85-01-8	Phenanthrene			not detected	NLE	1.67	ug/L	
120-12-7	Anthracene			not detected	2000	1.79	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83		
206-44-0	Fluoranthene			not detected	300	1.85		
92-87-5	Benzidine	1		not detected	50	4.11		
129-00-0	Pyrene			not detected	200	1.02		
85-68-7	Butylbenzylphthalate			not detected	100	1.15		
56-55-3	Benzo[a]anthracene			not detected	10	1.57		<del>,,</del>
91-94-1	3,3'-Dichlorobenzidine	I I		not detected	60	2.28	_	
218-01-9	Chrysene			not detected	20	2.32		-
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29	_	
117-84-0	Di-n-octylphthalate			not detected	100	1.30		
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31		
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57		
50-32-8	Benzo[a]pyrene			not detected	20	1.36		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22	_	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13		

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

#### **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		Lab Co	do 12461		MW:	30
		, , , , , , , , , , , , , , , , , , ,	<del></del>	de <u>13461</u>			
Project	LTM	Case No.: 4083	Loca	tion <u>CW-2</u>	_ SI	DG No.:	
Matrix: (soil/	water)	WATER		Lab Sample	D:	4083.03	
Sample wt/v	ol:	1000 (g/ml) ML		Lab File ID:		BNA01482.E	)
Level: (low/	med)	LOW		Date Receiv	/ed:	11/24/98	
% Moisture:		decanted: (Y/N)	N	Date Extrac	ted:	11/30/98	
Concentrate	d Extract	Volume: <u>1000</u> (uL)		Date Analyz	ed:	12/02/98	
Injection Vol	ume: <u>1.</u>	0 (uL)	i	Dilution Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	N pH: 7	,				
			CONCE	NTRATION	UNIT	-S:	
Number TIC	s found:	0	(ug/L or	ug/Kg)	UG/L		
CAS NUME	3ER	COMPOUND NAME		RT	ES <sup>-</sup>	T. CONC.	Q

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name bna01483.d

Sample Name

4083.04

Operator

Skelton

Misc Info

MW31

Date Acquired

2 Dec 1998 7:47 pm

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifier
110-86-I	Pyridine			not detected	NLE		ug/L	V
62-75-9	N-nitroso-dimethylamine	1 -		not detected	20		ug/L	<del>                                     </del>
62-53-3	Aniline			not detected	NLE		ug/L	
108-95-2	Phenol	"		not detected	4000		ug/L	<u> </u>
111-44-4	bis(2-Chloroethyl)ether		1	not detected	10	2.45		-
95-57-8	2-Chlorophenol			not detected	40	1.92	ug/L	<del></del>
541-73-1	1,3-Dichlorobenzene	1		not detected	600		ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75		ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	2.09		-
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44	_	
. "	2-Methylphenol			not detected	NLE		ug/L	
108-60-1	bis(2-chloroisopropyl)ether	1		not detected	300		ug/L	
	4-Methylphenol	1		not detected	NLE	1.72	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20		ug/L	
67-72-1	Hexachloroethane	1		not detected	10		ug/L	<del></del>
98-95-3	Nitrobenzene			not detected	10	2.45		
78-59-1	Isophorone	1		not detected	100	2.31		
88-75-5	2-Nitrophenol	1 1		not detected	NLE	1,72	į	
105-67-9	2,4-Dimethylphenol			not detected	100	2.42		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54		
120-83-2	2,4-Dichlorophenol			not detected	20	1.79		
65-85-0	Benzoic Acid			not detected	NLE	0.71		
120-82-1	1,2,4-Trichlorobenzene	T		not detected	9	2,58		
91-20-3	Naphthalene			not detected	NLE	3.03		•
106-47-8	4-Chloroaniline			not detected	NLE	2.55		
87-68-3	Hexachlorobutadiene			not detected	1	0.64		
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.46		
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49		
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59		
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	ug/L	
	2,4,5-Trichlorophenol			not detected	700	1.63		
91-58-7	2-Chloronaphthalene	1		not detected	NLE	2.15		•
88-74-4	2-Nitroaniline			not detected	NLE		ug/L	<del></del>
131-11-3	Dimethylphthalate			not detected	7000	2.74		
208-96-8	Acenaphthylene			not detected	NLE	2.35	_	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54		
99-09-2	3-Nitroaniline			not detected	NLE		ug/L	
83-32-9	Acenaphthene			not detected	400	1.98		
51-28-5	2,4-Dinitrophenol			not detected	40	1.65		
132-64-9	Dibenzofuran			not detected	NLE		ug/L	
100-02-7	4-Nitrophenol			not detected	NLE		ug/L	

Page 1 of 2

Data File Name bna01483.d

Operator Skelton

Date Acquired 2 Dec 1998 7:47 pm Sample Name

4083.04

Misc Info

MW31

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1,22 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68 ug/L	T
86-73-7	Fluorene			not detected	300	1.93 ug/L	<del></del>
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53 ug/L	1
100-01-6	4-Nitroaniline			not detected	NLE	2.70 ug/L	<u> </u>
534-52-1	4,6-Dinitro-2-methylphenol	[]	T	not detected	NLE	1.58 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73 ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88 ug/L	
87-86-5	Pentachlorophenol			not detected	1 1	0.55 ug/L	<del> </del>
85-01-8	Phenanthrene			not detected	NLE	1.67 ug/L	
120-12-7	Anthracene			not detected	2000	1.79 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83 ug/L	
206-44-0	Fluoranthene			not detected	300	1.85 ug/L	
92-87-5	Benzidine			not detected	50	4.11 ug/L	
129-00-0	Pyrene	$\Box$		not detected	200	1.02 ug/L	·
85-68-7	Butylbenzylphthalate			not detected	100	1.15 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28 ug/L	
218-01-9	Chrysene			not detected	20	2.32 ug/L	*
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29 ug/L	
117-84-0	Di-n-octylphthalate		,	not detected	100	1.30 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22 ug/L	
5 <b>3-7</b> 0-3	Dibenz[a,h]anthracene			not detected	20	3.12 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13 ug/L	<del></del>

#### \* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL - Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		Lab Co	de 13461	MW31
Project	LTM	Case No.: 4083	Loca	tion CW-2	SDG No.:
Matrix: (soil/	water)	WATER		Lab Sample ID	4083.04
Sample wt/vo	ol:	1000 (g/ml) ML		Lab File ID:	BNA01483.D
Level: (low/r	ned)	LOW		Date Received:	11/24/98
% Moisture:		decanted: (Y/N) _	N	Date Extracted:	11/30/98
Concentrated	d Extract	Volume: 1000 (uL)		Date Analyzed:	12/02/98
Injection Volu	ume: <u>1.</u>	<u>0         (uL)</u>	Ŧ	Dilution Factor:	1.0
GPC Cleanu	p: (Y/N)	N pH: 7			
Number TICs	s found:	0	CONCE	NTRATION UN ug/Kg) <u>UG</u>	
CAS NUME	BER	COMPOUND NAME		RT E	ST. CONC. Q

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name bna01484.d

Sample Name

4083.05 MW32

Operator

Skelton

Misc Info

Sample Multiplier 1

Date Acquired 2 Dec 1998 8:30 pm San

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
110-86-1	Pyridine			not detected	NLE	2.52 ug	/L
62-75-9	N-nitroso-dimethylamine			not detected	20	2.64 us	/L
62-53-3	Aniline			not detected	NLĒ	2,90 սյ	
108-95-2	Phenol			not detected	4000	1.11 ug	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45 us	
95-57-8	2-Chlorophenol			not detected	40	1,92 ug	
541-73-1	1,3-Dichlorobenzene			not detected	600	2,65 ug	
106-46-7	1,4-Dichlorobenzene		-	not detected	75	2.50 ug	
100-51-6	Benzyl alcohol	T		not detected	NLE	2.09 ug	
95-50-1	1,2-Dichlorobenzene			not detected	600	2.44 ug	
	2-Methylphenol			not detected	NLE	2.09 ug	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96 ug	
•	4-Methylphenol	1		not detected	NLE	1.72 ug	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22 ug	
67-72-1	Hexachloroethane	1		not detected	10	2.59 ug	
98-95-3	Nitrobenzene	<del> </del>		not detected			
78-59-1	Isophorone	1		not detected	100	2.45 ug	
88-75-5	2-Nitrophenol	1		not detected	NLE	2.31 ug 1.72 ug	
105-67-9	2,4-Dimethylphenol	<del>  </del>		not detected			
111-91-1	bis(2-Chloroethoxy)methane	† †		not detected	100		
120-83-2	2,4-Dichlorophenol	<del>                                     </del>		not detected	NLE	2.54 ug	1
65-85-0	Benzoic Acid	<del>  </del>		not detected	20	1.79 ug 0.71 ug	
120-82-1	1,2,4-Trichlorobenzene	<del>  </del>		not detected	NLE		
91-20-3	Naphthalene	<del>   </del>		not detected	9	2.58 ug	
106-47-8	4-Chloroaniline	<del> </del>		·	NLE	3.03 ug	
87-68-3	Hexachlorobutadiene		*	not detected	NLE	2.55 ug	
59-50-7	4-Chloro-3-methylphenol	1		not detected	1	0.64 ug/	
91-57-6	2-Methylnaphthalene	<del>  </del>		not detected	NLE	1.46 ug/	
77-47-4		┼─┼		not detected	NLE	2.49 ug/	
88-06-2	Hexachlorocyclopentadiene	╁		not detected	50	1.59 ug/	
88-00-2	2,4,6-Trichlorophenol	┼┼		not detected	20	1.66 ug/	
01.60.7	2,4,5-Trichlorophenol	╆┯┼		not detected	700	1.63 ug/	
91-58-7 88-74-4	2-Chloronaphthalene	<del>                                     </del>		not detected	NLE	2.15 ug/	
131-11-3	2-Nitroaniline	<del> </del>		not detected	NLE	1.62 ug/	
208-96-8	Dimethylphthalate Appropriate	<del>  </del>		not detected	7000	2.74 ug/	
	Acenaphthylene	<del>                                     </del>		not detected	NLÉ	2.35 ug/	
606-20-2 99-09-2	2,6-Dinitrotoluene	<del>                                     </del>		not_detected	NLE	1.54 ug/	_
	3-Nitroaniline			not detected	NLE	1.62 ug/	-
83-32-9	Acenaphthene	<del>                                     </del>		not detected	400	1.98 ug/	L
51-28-5	2,4-Dinitrophenol			not detected	40	1.65 ug/	L
132-64-9	Dibenzofuran	$\vdash$		not detected	NLE	2.13 ug/	١
100-02-7	4-Nitrophenol		1	not detected	NLE	1.31 ug/	

Page 1 of 2

Data File Name bna01484.d

Date Acquired

Operator

Skelton

2 Dec 1998 8:30 pm

Sample Name

4083,05

Misc Info

MW32

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene	<u> </u>		not detected	10	1.22	ug/L	
84-66-2	Diethylphthalate	İ		not detected	5000	1.68	ug/L	
86-73-7	Fluorene	1		not detected	300	1.93		
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53		
100-01-6	4-Nitroaniline			not detected	NLE	2,70		
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73	ug/L	
103-33-3	Azobenzene		T	not detected	NLE	1.92	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54	_	
118-74-1	Hexachlorobenzene			not detected	10	1.88		
87-86-5	Pentachlorophenol		-	not detected	1	0.55	_	
85-01-8	Phenanthrene			not detected	NLE	1.67	_	
120-12-7	Anthracene			not detected	2000	1.79		
84-74-2	Di-u-butylphthalate			not detected	900	1.83 1		
206-44-0	Fluoranthene			not detected	300	1.85		
92-87-5	Benzidine			not detected	50	4.11		
129-00-0	Pyrene			not detected	200	1.02 t	_	• • • • • • • • • • • • • • • • • • • •
85-68-7	Butylbenzylphthalate			not detected	100	1.15		
56-55-3	Benzo[a]anthracene			not detected	10	1.57 t		
91-94-1	3,3'-Dichlorobenzidine			not detected	- 60	2.28 1	_	
218-01-9	Chrysene			not detected	20	2.32 1		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29 t		
117-84-0	Di-n-octylphthalate			not detected	100	1.30 t	_	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31 t		
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57 u		
50-32-8	Benzo[a]pyrene			not detected	20	1.36 u	_	Ł,
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22 u	_	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12 u		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13 u		4.

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			_ Lab Co	de 13461		MW:	32
Project	LTM	Case No	o.: <u>4083</u>	Loca	tion CW-2	SI	DG No.:	
Matrix: (soil/	water)	WATER			Lab Sample	e ID:	4083.05	
Sample wt/v	ol:	1000 (g/r	n!) ML		Lab File ID:		BNA01484.E	)
Level: (low/r	med)	LOW	•		Date Recei	ved:	11/24/98	
% Moisture:		decanted	: (Y/N)	N	Date Extrac	ted:	11/30/98	
Concentrate	d Extract	Volume: <u>1000</u>	(uL)		Date Analyz	zed:	12/02/98	
Injection Vol	ume: <u>1.</u>	0 (uL)			Dilution Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	N pH:	7					
Number TICs	s found:	0		CONCE	NTRATION ug/Kg)	UNIT UG/L		
CAS NUME	BER	COMPOUND N	IAME		RT	E\$	T. CONC.	Q

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name bna01485.d

Sample Name

4083.06

Operator

Skelton

Misc Info

MW33

Date Acquired

2 Dec 1998 9:13 pm

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	,	Qualifier
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	
62-53-3	Aniline		-	not detected	NLE		ug/L	
108-95-2	Phenol			not detected	4000	1.11	_	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	2.45		···
95-57-8	2-Chlorophenol			not detected	40		ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	2,65		
106-46-7	1,4-Dichlorobenzene			not detected	75		ug/L	
100-51 <b>-</b> 6	Benzyl alcohol			not detected	NLE	2.09		
95-50-1	1.2-Dichlorobenzene	1		not detected	600		ug/L	
	2-Methylphenol			not detected	NLE		ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300		ug/L	
	4-Methylphenol	1 1		not detected	NLE		ug/L	
621-64-7	n-Nitroso-di-n-propylamine	1 1		not detected	20	2.22		
67-72-1	Hexachloroethane	1 1		not detected	10		ug/L	
98-95-3	Nitrobenzene	1		not detected	10	2.45	_	
78-59-1	Isophorone	1		not detected	100		ug/L ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.72		
105-67-9	2,4-Dimethylphenol	1		not detected	100		ug/L ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE		ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20		ug/L	
65-85-0	Benzoic Acid			not detected	NLE		ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9		ug/L	
91-20-3	Naphthalene		- ''-	not detected	NLE		ug/L	
106-47-8	4-Chloroaniline	1 1		not detected	NLE	2.55		
87-68-3	Hexachlorobutadiene	11		not detected	1	0.64		
59-50-7	4-Chloro-3-methylphenol	1	•	not detected	NLE	1.46		
91-57-6	2-Methylnaphthalene	1 1	<del>-   ·</del>	not detected	NLE	2.49		<del></del>
77-47-4	Hexachlorocyclopentadiene	1 1		not detected	50	1.59		·
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66	_	
	2,4,5-Trichlorophenol			not detected	700	1.63		
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15		
88-74-4	2-Nitroaniline			not detected	NLE	1.62		
131-11-3	Dimethylphthalate			not detected	7000	2.74		
208-96-8	Acenaphthylene	1		not detected	NLE	2.35		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.54		· · ·
99-09-2	3-Nitroaniline	+		not detected	NLE NLE			
83-32-9	Acenaphthene	1		not detected		1.62		
51-28-5	2,4-Dinitrophenol	<del>   </del>	<del>-  -</del>		400	1.98		
132-64-9	Dibenzofuran	+ +	<del>-</del>	not detected	40	1.65		
100-02-7	4-Nitrophenol	<del>   </del>	<del>-</del> -	not detected	NLE	2.13		
100-02-1	1 - Tata Obttenot			not detected	NLE	1.31	ug/L	- · · · · · · · · · · · · · · · · · · ·

Page 1 of 2

Data File Name bna01485.d

Date Acquired

Operator

Skelton

2 Dec 1998 9:13 pm

Sample Name

4083.06

Misc Info

MW33 Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1,22 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.68 ug/L	
86-73-7	Fluorene			not detected	300	1.93 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.70 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	- 20	1.73 ug/L	
103-33-3	Azobenzene			not detected	NLE	1.92 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.88 ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.67 ug/L	
120-12-7	Anthracene			not detected	2000	1.79 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83 ug/L	
206-44-0	Fluoranthene			not detected	300	1.85 ug/L	
92-87-5	Benzidine			not detected	50	4.11 úg/L	
129-00-0	Pyrene			not detected	200	1.02 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28 ug/L	· .
218-01-9	Chrysene			not detected	20	2.32 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.30 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.36 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22 ug/L	<u> </u>
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12 ug/L	<u> </u>
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13 ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

#### **Qualifiers**

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL - Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		Lab Co	de 13461		MW:	33
Project	LTM	Case No.: 4083	Loca	tion CW-2	_ sı	DG No.:	
Matrix: (soil/	water)	WATER		Lab Sample	ID:	4083.06	
Sample wt/vo	ol:	1000 (g/ml) ML	<del></del> _	Lab File ID:		BNA01485.	)
Level: (low/r	ned)	LOW		Date Receiv	ed:	11/24/98	
% Moisture:		decanted: (Y/N) _	N_	Date Extract	ted:	11/30/98	
Concentrated	d Extract	Volume: <u>1000</u> (uL)		Date Analyz	ed:	12/02/98	
Injection Volu	ume: <u>1.0</u>	<u>)         (uL)                          </u>		Dilution Fact	tor:	1.0	
GPC Cleanu	p: (Y/N)	NpH: 7					
			CONCE	NTRATION	UNIT	<b>"S</b> ;	
Number TICs	found:	4	(ug/L or	ug/Kg)	UG/L	-	
CAS NUME	BER	COMPOUND NAME		RT	ES	T. CONC.	O

# Semi-Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name bna01486.d

Sample Name

4083.07 Dupe

Operator

Skelton

Misc Info

Date Acquired

2 Dec 1998 9:56 pm

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	, MDL		Oualifiers
110-86-1	Pyridine			not detected	NLE	2.52	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	
62-53-3	Aniline			not detected	NLE	2.90		
108-95-2	Phenol			not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10		ug/L	
95-57-8	2-Chlorophenol	1	<b></b>	not detected	40	1.92		
541-73-1	1,3-Dichlorobenzene		<del>/*</del>	not detected	600		ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	2.50		
100-51-6	Benzyl alcohol	1		not detected	NLE		ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600		ug/L	
	2-Methylphenol			not detected	NLE	2.09		
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	2.96		
	4-Methylphenol			not detected	NLE		ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	2.22		
67-72-1	Hexachloroethane	1		not detected	10	2.59	_	<del>.</del>
98-95-3	Nitrobenzene			not detected	10	2.45		
78-59-1	Isophorone			not detected	100	2.31		
88-75-5	2-Nitrophenol			not detected	NLE	1.72		
105-67-9	2,4-Dimethylphenol			not detected	100	2.42		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	2.54		
120-83-2	2,4-Dichlorophenol	1		not detected	20	1.79		
65-85-0	Benzoic Acid			not detected	NLE	0.71		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	2,58		
91-20-3	Naphthalene			not detected	NLE	3.03		
106-47-8	4-Chloroaniline			not detected	NLE	2.55		
87-68-3	Hexachlorobutadiene			not detected	1	0.64	$\overline{}$	
59-50-7	4-Chioro-3-methylphenol			not detected	NLE	1.46		
91-57-6	2-Methylnaphthalene			not detected	NLE	2.49		
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.59		
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.66		
	2,4,5-Trichlorophenol			not detected	700	1.63 1	_	
91-58-7	2-Chloronaphthalene			not detected	NLE	2.15 1		
88-74-4	2-Nitroaniline			not detected	NLE	1.62 ι	_	
131-11-3	Dimethylphthalate			not detected	7000	2.74 t		
208-96-8	Acenaphthylene			not detected	NLE		ıg/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE		ıg/L	
99-09-2	3-Nitroaniline			not detected	NLE		ıg/L	
83-32-9	Acenaphthene	<u> </u>		not detected	400		ıg/L	
51-28-5	2,4-Dinitrophenol			not detected	40		1g/L	
132-64-9	Dibenzofuran			not detected	NLE		ıg/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.31 t		

Page 1 of 2

Data File Name

Date Acquired

Operator

bna01486.d

Skelton

2 Dec 1998 9:56 pm

Sample Name

4083.07

Misc Info

Dupe

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.22 ug/I	
84-66-2	Diethylphthalate			not detected	5000	1.68 ug/I	
86-73-7	Fluorene			not detected	300	1.93 ug/I	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.53 ug/I	
100-01-6	4-Nitroaniline			not detected	NLE	2.70 ug/I	_
534 <b>-52</b> -1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.58 ug/I	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.73 ug/L	_
103-33-3	Azobenzene			not detected	NLE	1.92 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.54 ug/L	
118-74-1	Hexachlorobenzene		ŀ	not detected	10	1.88 ug/L	
87-86-5	Pentachlorophenol			not detected	1	0.55 ug/L	T
85-01-8	Phenanthrene			not detected	NLE	1.67 ug/L	
120-12-7	Anthracene			not detected	2000	1.79 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.83 ug/L	
206-44-0	Fluoranthene			not detected	300	1.85 ug/L	
92-87-5	Benzidine			not detected	50	4.11 ug/L	
129-00-0	Pyrene			not detected	200	1.02 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.15 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.57 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.28 ug/L	
218-01-9	Chrysene			not detected	20	2.32 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.29 ug/L	<u> </u>
117-84-0	Di-n-octylphthalate			not detected	100	1.30 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.31 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.57 ug/L	<del>                                     </del>
50-32-8	Benzo[a]pyrene			not detected	20	1.36 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.22 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	3.12 ug/L	· · · ·
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.13 ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6

#### Qualifiers

E = Value exceded linear range

D = Value from dilution

B = Compound in related blank

PQL = Practical Quantitation Limit

MDL - Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Lab Cod	de ′	13461		Du	oe
Project	LTM	Case No.: 4083		Locat	tion	CW-2	_ s	DG No.:	
Matrix: (soil/	water)	WATER		I	Lab :	Sample	ID:	4083.07	<u>.                                    </u>
Sample wt/vo	oi:	1000 (g/ml) ML			Lab I	File ID:		BNA01486.	)
Level: (low/r	ned)	LOW			Date	Receiv	/ed:	11/24/98	
% Moisture:		decanted: (Y/N)	N	[	Date	Extrac	ted:	11/30/98	-
Concentrated	d Extract	Volume: <u>1000</u> (uL)			Date	Analyz	ed:	12/02/98	
Injection Volu	ıme: <u>1.0</u>	0 (uL)		[	Diluti	on Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	<u>N</u> pH: 7	_						
Number TICs	s found:	0		CONCEN			UNIT		
CAS NUMB	ER	COMPOUND NAME				RT	ES	T. CONC.	Q

Client:

U.S. Army

Lab. ID #:

BLK253

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

11/25/98

Ft. Monmouth, NJ 07703

Analysis Date:

12/2/98

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. Funi	101				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	. 1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1	.,	0.50	0.0011	ND ·
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4083.02

DPW, SELFM-PW-EV

Date Rec'd:

11/24/98

Bldg. 173

**Extraction Date:** 

11/25/98

Ft. Monmouth, NJ 07703

Analysis Date:

12/2/98

Analysis:

EPA Method 608

Location:

CW-2 MW

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

Field Blank

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. Fun	nei				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1	·	0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4083.03

DPW, SELFM-PW-EV

Date Rec'd:

11/24/98

Bldg. 173

**Extraction Date:** 

11/25/98

Ft. Monmouth, NJ 07703

Analysis Date:

12/2/98

Analysis:

EPA Method 608

Location:

CW-2 MW

Matrix: Analyst: Aqueous

D. Wright

Field ID:

MW-30

Ext.	Meth:		Sep.	runne

Ext. Meth: Sep. F	unnei			<u></u>	
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4083.04

DPW, SELFM-PW-EV

Date Rec'd:

11/24/98

Bldg. 173

**Extraction Date:** 

11/25/98

Ft. Monmouth, NJ 07703

Analysis Date:

12/2/98

Analysis:

EPA Method 608

Location:

CW-2 MW

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

MW-31

Ext. Meth:		Sep.	Funn

Ext. Meth: Sep. Funr	ICI				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	· ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1	·	0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4083.05

DPW, SELFM-PW-EV

Date Rec'd:

11/24/98

Bldg. 173

**Extraction Date:** 

11/25/98

Ft. Monmouth, NJ 07703

Analysis Date:

12/2/98

Analysis:

EPA Method 608

Location:

CW-2 MW

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

MW-32

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1	·	0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1.		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	11		0.50	0.0500	ND
Arochlor 1232	1	***************************************	0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

1

ND = Not Detected

Arochlor 1254

Arochlor 1260

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

ND

ND

0.0500

0.0680

MDL = Method Detection Limit

Column-Confirmation:

0.50

0.50

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4083.06

DPW, SELFM-PW-EV

Date Rec'd:

11/24/98

Bldg. 173

**Extraction Date:** 

11/25/98

Ft. Monmouth, NJ 07703

Analysis Date:

12/3/98

Analysis:

EPA Method 608

Location:

CW-2 MW

Matrix:

Aqueous

Analyst:

Field ID:

MW-33

Ext. Meth:

D. Wright

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND ,
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4083.07

DPW, SELFM-PW-EV

Date Rec'd:

11/24/98

Bldg. 173

**Extraction Date:** 

11/25/98

Ft. Monmouth, NJ 07703

Analysis Date:

12/3/98

Analysis:

EPA Method 608

Location:

CW-2 MW

Matrix:

Aqueous

Analyst:

D. Wright

Field ID:

Dupe

Ext. Meth: Sep. Funne
-----------------------

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1	. :	0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	. ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1	· · · · · · · · · · · · · · · · · · ·	0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary:

Rtx-CLPesticides 30m/.32 mm ID/.25

MDL = Method Detection Limit

Column-Confirmation:

Rtx-CLPesticides2 30m/.32 mm ID/.25

NLE = No Limit Established

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

Lab ID #: 4083

DPW, SELFM-PW-EV

Sample Prepared: 12/16/98

Bldg. 173

Ft. Monmouth, NJ 07703

Site: CW-2

Field ID#: Method Blank

Ft. Monmouth, New Jersey

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	12/17/98	32.7	200	10.0
Antimony	12/17/98	4.31	20	2.0
Arsenic	12/17/98	ND	8	2.0
Barium	12/17/98	1.94	2000	0.5
Beryllium	12/17/98	ND	20	0.5
Cadmium	12/17/98	ND	4	0.5
Calcium	12/17/98	71.0	NLE	20.0
Chromium	12/17/98	ND	100	0.5
Cobalt	12/17/98	ND	NLE	0.5
Copper	12/17/98	ND	1000	3.0
Iron	12/17/98	ND	300	10.0
Lead	12/17/98	ND	10	2.0
Magnesium	12/17/98	55.5	NLE	20.0
Manganese	12/17/98	ND	50	0.5
Mercury	12/14/98	ND	2	0.1
Nickel	12/17/98	1.28	100	0.5
Potassium	12/17/98	269	NLE	20.0
Selenium	12/17/98	ND	50	3.0
Silver	12/17/98	ND	20	3.0
Sodium	12/17/98	199	50000	20.0
Thallium	12/17/98	ND	10	3.0
Vanadium	12/17/98	ND	NLE	1.0
Zinc	12/17/98	2.17	5000	1.0

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4083.02

Sample Received: 11/24/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	12/17/98	ND	200	10.0
Antimony	12/17/98	ND	20	2.0
Arsenic	12/17/98	ND	8	2.0
Barium	12/17/98	0.6	2000	0.5
Beryllium	12/17/98	ND	20	0.5
Cadmium	12/17/98	ND	4	0.5
Calcium	12/17/98	ND	NLE	20.0
Chromium	12/17/98	ND	100	0.5
Cobalt	12/17/98	ND	NLE	0.5
Copper	12/17/98	ND	1000	3.0
Iron	12/17/98	ND	300	10.0
Lead	12/17/98	ND	10	2.0
Magnesium	12/17/98	ND	NLE	20.0
Manganese	12/17/98	ND	50	0.5
Mercury	12/14/98	0.2	2	0.1
Nickel	12/17/98	0.9	100	0.5
Potassium	12/17/98	87	NLE	20.0
Selenium	12/17/98	3.5	50	3.0
Silver	12/17/98	ND	20	3.0
Sodium	12/17/98	92	50000	20.0
Thallium	12/17/98	ND	10	3.0
Vanadium	12/17/98	ND	NLE	1.0
Zinc	12/17/98	9.2	5000	1.0

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4083.03

Sample Received: 11/24/98

Sample Matrix: Aqueous

•

Site: CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-30

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	12/17/98	ND	200	10.0
Antimony	12/17/98	3.99	20	2.0
Arsenic	12/17/98	11.5	8	2.0
Barium	12/17/98	250	2000	0.5
Beryllium	12/17/98	ND	20	0.5
Cadmium	12/17/98	ND	4	0.5
Calcium	12/17/98	109000	NLE	20.0
Chromium	12/17/98	3.75	100	0.5
Cobalt	12/17/98	ND	NLE	0.5
Copper	12/17/98	4.28	1000	3.0
Iron	12/17/98	27500	300	10.0
Lead	12/17/98	3.15	10	2.0
Magnesium	12/17/98	9310	NLE	20.0
Manganese	12/17/98	182	50	0.5
Mercury	12/14/98	2.3	2	0.1
Nickel	12/17/98	1.59	100	0.5
Potassium	12/17/98	12500	NLE	20.0
Selenium	12/17/98	5.27	50	3.0
Silver	12/17/98	ND	20	3.0
Sodium	12/17/98	17400	50000	20.0
Thallium	12/17/98	ND	10	3.0
Vanadium	12/17/98	1.45	NLE	1.0
Zinc	12/17/98	3.33	5000	1.0

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4083.04

Sample Received: 11/24/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-31

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	12/17/98	ND	200	10.0
Antimony	12/17/98	3.03	20	2.0
Arsenic	12/17/98	ND	8	2.0
Barium	12/17/98	275	2000	0.5
Beryllium	12/17/98	ND	20	0.5
Cadmium	12/17/98	ND	4	0.5
Calcium	12/17/98	56700	NLE	20.0
Chromium	12/17/98	3.33	100	0.5
Cobalt	12/17/98	ND	NLE	0.5
Copper	12/17/98	ND	1000	3.0
Iron	12/17/98	72800	300	10.0
Lead	12/17/98	2.33	10	2.0
Magnesium	12/17/98	6800	NLE	20.0
Manganese	12/17/98	322	50	0.5
Mercury	12/14/98	0.3	2	0.1
Nickel	12/17/98	ND	100	0.5
Potassium	12/17/98	11500	NLE	20.0
Selenium	12/17/98	4.14	50	3.0
Silver	12/17/98	ND	20	3.0
Sodium	12/17/98	9900	50000	20.0
Thallium	12/17/98	ND	10	3.0
Vanadium	12/17/98	ND	NLE	1.0
Zinc	12/17/98	6.51	5000	1.0

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4083.05

Sample Received: 11/24/98

Sample Matrix: Aqueous

Site: CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-32

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	12/17/98	166	200	10.0
Antimony	12/17/98	3.33	20	2.0
Arsenic	12/17/98	9.32	8	2.0
Barium	12/17/98	230	2000	0.5
Beryllium	12/17/98	ND	20	0.5
Cadmium	12/17/98	ND	4	0.5
Calcium	12/17/98	66900	NLE	20.0
Chromium	12/17/98	4.60	100	0.5
Cobalt	12/17/98	ND	NLE	0.5
Copper	12/17/98	38.3	1000	3.0
Iron	12/17/98	106000	300	10.0
Lead	12/17/98	4.08	10	2.0
Magnesium	12/17/98	7650	NLE	20.0
Manganese	12/17/98	342	50	0.5
Mercury	12/14/98	0.3	2	0.1
Nickel	12/17/98	1.22	100	0.5
Potassium	12/17/98	12100	NLE	20.0
Selenium	12/17/98	4.04	50	3.0
Silver	12/17/98	ND	20	3.0
Sodium	12/17/98	11200	50000	20.0
Thallium	12/17/98	ND	10	3.0
Vanadium	12/17/98	11.0	NLE	1.0
Zinc	12/17/98	127	5000	1.0

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4083.06

Sample Received: 11/24/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: MW-33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L)	(ug/L)	(ug/L)
Aluminum	12/17/98	125	200	10.0
Antimony	12/17/98	2.82	20	2.0
Arsenic	12/17/98	ND	8	2.0
Barium	12/17/98	119	2000	0.5
Beryllium	12/17/98	ND	20	0.5
Cadmium	12/17/98	ND	4	0.5
Calcium	12/17/98	32000	NLE	20.0
Chromium	12/17/98	4.87	100	0.5
Cobalt	12/17/98	ND	NLE	0.5
Copper	12/17/98	3.71	1000	3.0
Iron	12/17/98	26400	300	10.0
Lead	12/17/98	ND	10	2.0
Magnesium	12/17/98	5360	NLE	20.0
Manganese	12/17/98	87.8	50	0.5
Mercury	12/14/98	0.4	2	0.1
Nickel	12/17/98	1.61	100	0.5
Potassium	12/17/98	5250	NLE	20.0
Selenium	12/17/98	ND	50	3.0
Silver	12/17/98	ND	20	3.0
Sodium	12/17/98	17800	50000	20.0
Thallium	12/17/98	ND	10	3.0
Vanadium	12/17/98	1.40	NLE	1.0
Zinc	12/17/98	13.5	5000	1.0

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4083.07

Sample Received: 11/24/98

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Dupe

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	GW Criteria	MDL
	Analysis	(ug/L) (ug/L)		(ug/L)
Aluminum	12/17/98	ND	200	10.0
Antimony	12/17/98	2.67	20	2.0
Arsenic	12/17/98	ND	8	2.0
Barium	12/17/98	270	2000	0.5
Beryllium	12/17/98	ND	20	0.5
Cadmium	12/17/98	ND	4	0.5
Calcium	12/17/98	57700	NLE	20.0
Chromium	12/17/98	3.35	100	0.5
Cobalt	12/17/98	ND	NLE	0.5
Copper	12/17/98	ND	1000	3.0
Iron	12/17/98	70300	300	10.0
Lead	12/17/98	2.25	10	2.0
Magnesium	12/17/98	6810	NLE	20.0
Manganese	12/17/98	324	50	0.5
Mercury	12/14/98	0.3	2	0.1
Nickel	12/17/98	ND	100	0.5
Potassium	12/17/98	11700	NLE	20.0
Selenium	12/17/98	ND	50	3.0
Silver	12/17/98	ND	20	3.0
Sodium	12/17/98	10000	50000	20.0
Thallium	12/17/98	ND	10	3.0
Vanadium	12/17/98	ND	NLE	1.0
Zinc	12/17/98	11.6	5000	1.0

	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water		Notes
Units:		ug/l	ug/l	ug/l	ug/l	ugl	Feet	<del></del>	_
NJDEP Criteria:	-	300	50	200	8	10	-	-	
04/24/97	FMETL	9100	69	-	-	-	6.45	<del></del>	V,S,P,M
07/10/97	FMETL	12590	73	25	5.0	ND	7.05		V,S,P,M
10/22/97	FMETL	34800	171	175	5.0	5.0	7.60		V,S,P,M
01/08/98	FMETL	2795	5.0	204	ND	4.0	5.20		V,S,P,M
04/07/98	FMETL	3504	39.3	196	5.6	ND	6.56	N	V,S,P,M
07/14/98	FMETL	10900	57.8	65.7	ND	ND	6.89		V,S,P,M
11/24/98	FMETL	27500	182	ND	11.5	3.15	7.86		V,S,P,M

SOURCE: MW30

Sampling Dates: 04/24/97 - 11/24/98

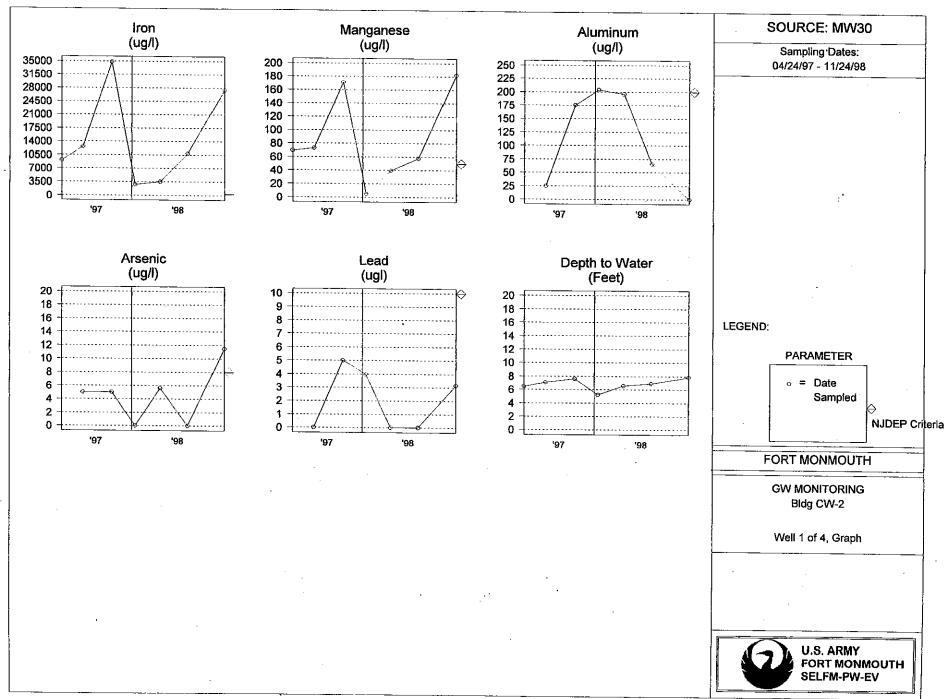
NOTES:

#### FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 1 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:		ug/l	ug/l	ug/l	ug/l	ugl	Feet	 
NJDEP Criteria:	-	300	50	200	8	10	-	
04/24/97	FMETL	59900	277	-			6.38	V,S,P,M
07/10/97	FMETL	11830	267	ND	1.0	ND	7.00	 V,S,P,M
10/22/97	FMETL	52300	243	93	ND	6.0	7.50	V,S,P,M
01/08/98	FMETL	68450	240	129	ND	25	6.30	V,S,P,M
04/07/98	FMETL	115100	266	ND	ND	ND	6.35	V,S,P,M
07/14/98	FMETL	83600	311	390	ND	4.85	6.71	V,S,P,M
11/24/98	FMETL	72800	322	ND	ND	2.33	7.78	V,S,P,M

SOL	JRCE:	<b>MW31</b>
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Sampling Dates: 04/24/97 - 11/24/98

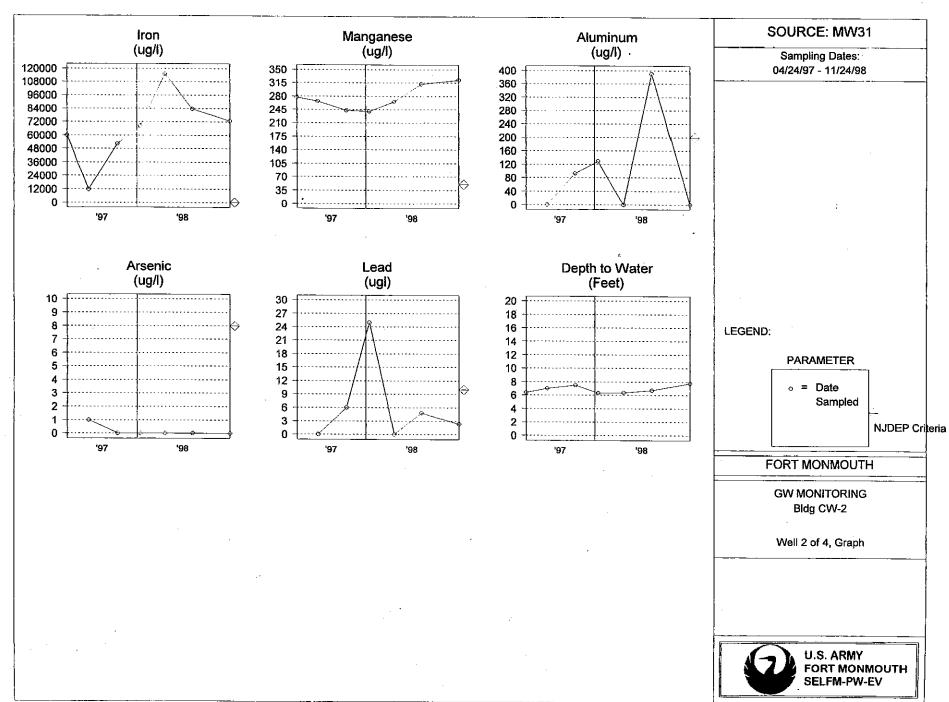
NOTES:

#### FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 2 of 4





:	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:		ug/l	ug/l	ug/l	ug/l	ugl	Feet	 -
NJDEP Criteria:	-	300	50	200	8	10	- 1	 -
04/24/97	FMETL	18400	125	-	-	-	6.65	V,S,P,M
07/10/97	FMETL	270	181	595	ND	ND	7.20	V,S,P,M
10/22/97	FMETL	51100	260	297	ND	7.0	7.70	 V,S,P,M
01/08/98	FMETL	1484	3.7	163	ND	ND	4.50	V,S,P,M
04/07/98	FMETL	19280	287	ND	ND	ND	6.81	V,S,P,M
07/14/98	FMETL	67500	287	78.1	2.51	3.99	7.06	V,S,P,M
11/24/98	FMETL	106000	342	166	9.32	4.08	7.94	V,S,P,M

SOL	JRCE:	<b>MW32</b>
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Sampling Dates: 04/24/97 - 11/24/98

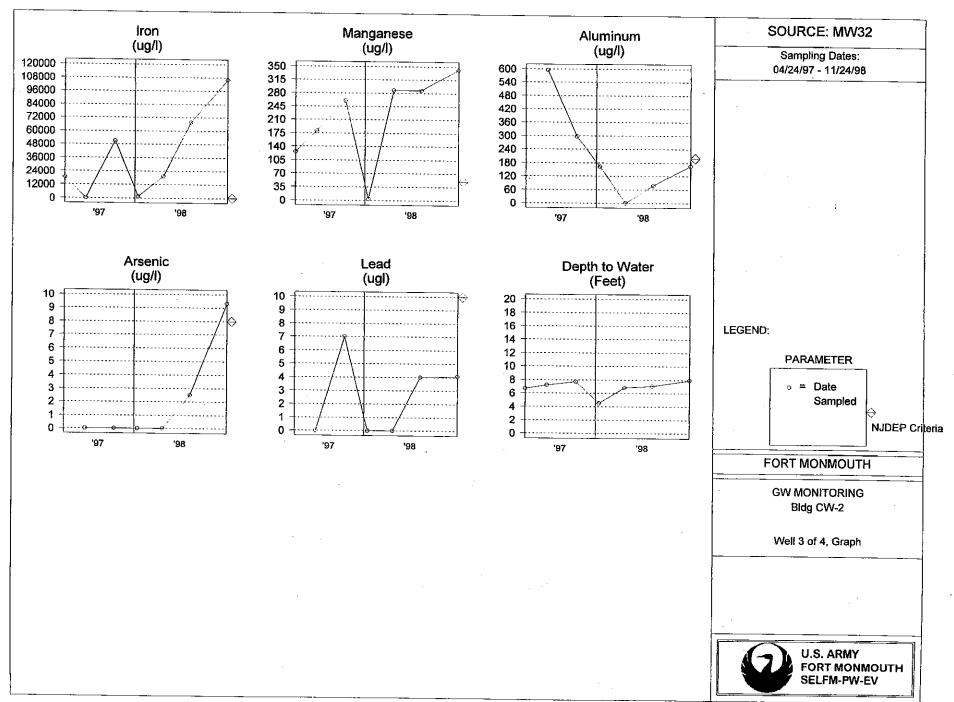
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 3 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ugl	Feet	 -
NJDEP Criteria:	•	300	50	200	8	10	-	-
04/24/97	FMETL	88600	424	-	-	-	8.95	V,S,P,M
07/10/97	FMETL	10260	519	2.1	1.0	ND	9.10	 V,S,P,M
10/22/97	FMETL	26800	151	94	ND	4.0	9.10	 V,S,P,M
01/08/98	FMETL	104700	342	217	6.0	4.0	9.00	V,S,P,M
04/07/98	FMETL	19780	110	119	3.4	ND	9,50	V,S,P,M
07/14/98	FMETL	35900	130	411	ND	4.19	9.09	V,S,P,M
11/24/98	FMETL	26400	87.8	125	ND	ND	9.13	V,S,P,M

SOURCE: MW33

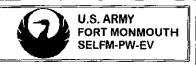
Sampling Dates: 04/24/97 - 11/24/98

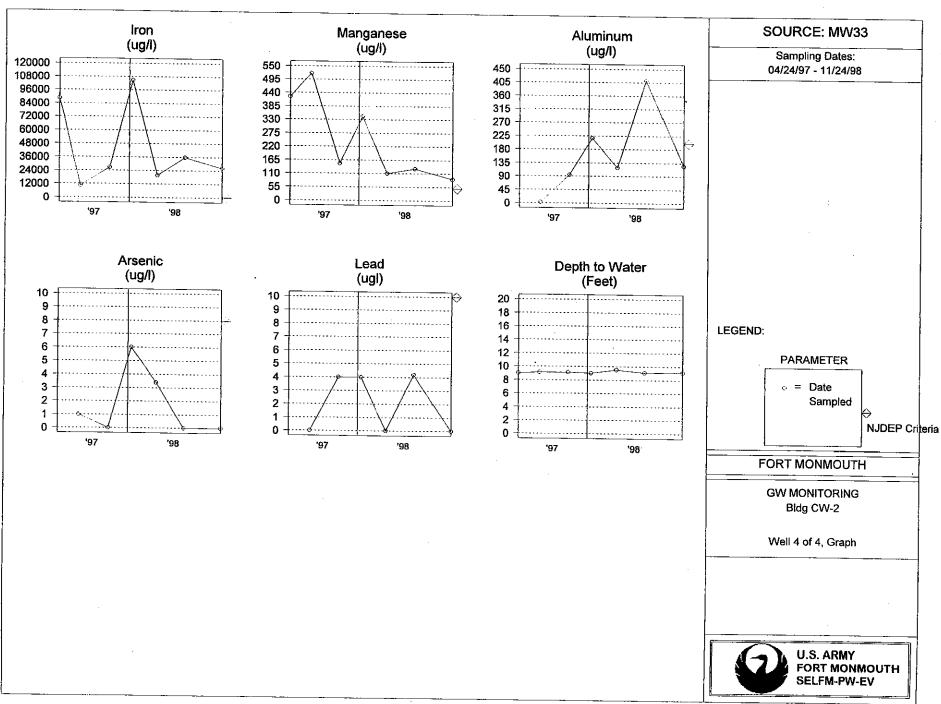
NOTES:

#### FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 4 of 4





### FORT MONMOUTH ENVIRONMENTAL

### **TESTING LABORATORY**

**DIRECTORATE OF PUBLIC WORKS** 

PHONE: (732)532-6224 FAX: (732)532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4271.01	0CW2MW30	29-32594	02/11/99
4271.02	0CW2MW31	29-32595	02/11/99
4271.03	0CW2MW32	29-32596	02/11/99
4271.04	0CW2MW33	29-32597	02/11/99

NJDEP Laboratory Certification # 13461

Daniel Wright/Date: Laboratory Director

### METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
METALS	
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST ORGANICS	Federal Register 40 CFR Part 136 Appendix A
Base/Neutral and Acid Extractables by GC/MS	625
Purgeable Organics by GC/MS	624
Pesticide and PCB by GC	608



### Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

**Chain of Custody Record** 

Customer: 50	e Fullan	Project No:				Analysis Parameters					Commen	ts:			
Phone #:	223	Location:	( W-2	mw's			Ŋ	2	76				J.		
()DERA ()OMA (	Other:		1st art	199		\ <u>\$</u>	7	Pst/Ro	. #1				K.	•	14,000
Samplers Name / Con	npany: Cose, McCo	rmach,	Sample	#	70	3	\$	1,41				3	HC	/HNO3/LY°C	
Lab Sample I.D.	Sample Location	Date	Time	Туре	bottles		V	~	ı.				H,	Remarks /	Preservation Method
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104	mw-33		1035	1	5									0.0	29-32517
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Report Type: ()Full, ()I	Reduced, Standard, Screen	n / non-certified	i						s Tr	ip/B	luh/1	) ye 4	Lrum	2700 mg	·
Turnaround time: ()Stand	lard 4 wks, ()Rush Days,	(_)ASAP Ver	bal Hrs.			Tie	10:1	NA							



## Fort Monmouth Environmental Testing Laboratory

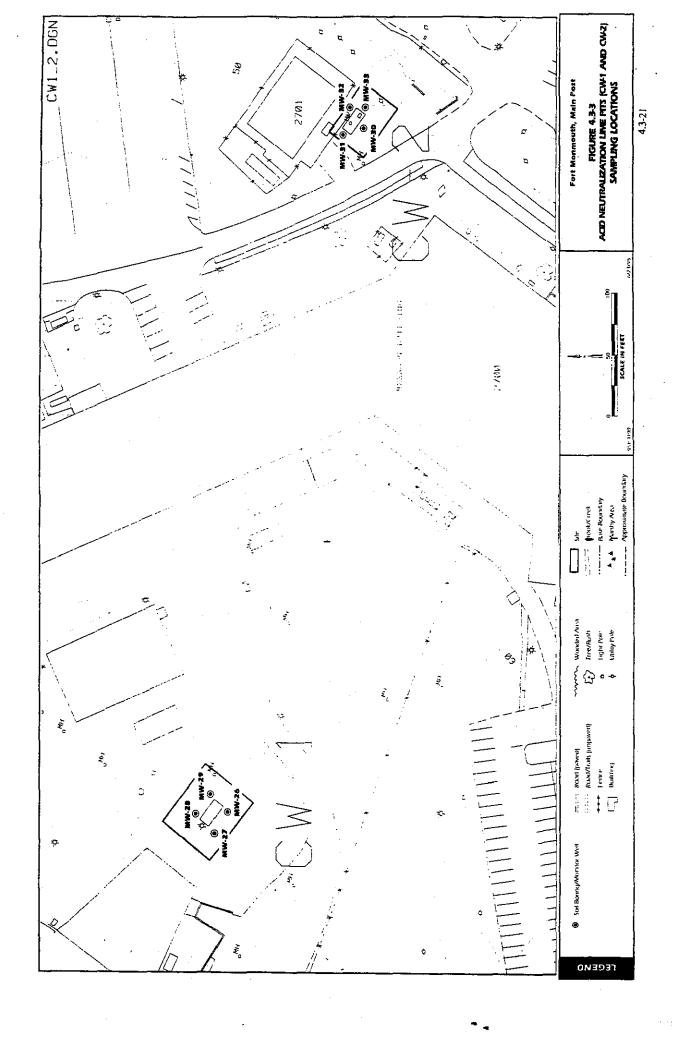
Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@doim6.monmouth.army.mil

NJDEP Certification #13461

**Chain of Custody Record** 

Customer: C/	wles Appleby	Project No:				Analysis Parameters							Comments:		
Phone #:	224	Location:	2700 My	~ MW	۱۵ ]		V	8	725				P		
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Lab Sample I.D.	Sample Location	Date	Time	Туре	bottles	4	8	<u> </u>					7	Remarks / Preservation Method	
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Report Type: ()Full, ()I	Reduced, 🖉 Standard, (_) Screen	n/non-certified	 l			Rema	rks:	Stres	Trip	Blu	4/P8	L W	1/04	- 2 .	
Turnaround time: Stand	lard 4 wks, (_)Rush Days,	()ASAP Ver	balHrs.	-		Ti	de:X	)/A							



# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: 0CW2MW30 NJDEP ID #: 29-32594 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 02/11/99

WEATHER: Calm, Clear.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 51.71 ft

**DEPTH TO WATER:** 7.24 ft DEPTH OF WELL: 17.95 ft

HEIGHT OF WATER: 10.71 ft

(10.71) X .65 X 3 = 20.88

GALLONS OF H2O TO BE PURGED: 21 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 09:09

pH 6.63 su TEMP 10.9 °C

DISSOLVED 02 6.78 ppm SPECIFIC CONDUCTIVITY 540 us/c

PURGE END TIME: 10:40

pH 6.60 su TEMP 10.2 °C

DISSOLVED O2 3.07 ppm SPECIFIC CONDUCTIVITY 540 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 11.80 ft (SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ®

BAILER)

TOTAL VOLUME PURGED: 21 gal

pH 6.57 su TEMP 9.9 °C

DISSOLVED O2 3.11 ppm SPECIFIC CONDUCTIVITY 539 us/cm

COMMENTS:

### U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: 0CW2MW31 NJDEP ID #: 29-32595 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 02/11/99

WEATHER: Calm, Clear.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 51.58 ft

DEPTH TO WATER: 7.07 ft
DEPTH OF WELL: 16.90 ft
HEIGHT OF WATER: 9.83 ft

(9.83) X .65 X 3 = 19.16

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 09:17

pH 6.43 su TEMP 10.9 °C

DISSOLVED O2 10.62 ppm SPECIFIC CONDUCTIVITY 704 us/cm

PURGE END TIME: 10:39

pH 6.45 su TEMP 10.1 °C

DISSOLVED O2 2.94 ppm SPECIFIC CONDUCTIVITY 700 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.73 ft
(SAMPLING METHOD: DEDICATED( LAW NJDEP FSPM 1992) TEFLON ®

BAILER)

TOTAL VOLUME PURGED: 19 gal

pH 6.42 su TEMP 9.8 °C

DISSOLVED O2 2.91 ppm SPECIFIC CONDUCTIVITY 707 us/cm

COMMENTS: Orange tinge, cloudy.

# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: 0CW2MW32 NJDEP ID #: 29-32596 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 02/11/99

WEATHER: Calm, Clear.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 51.38 ft

**DEPTH TO WATER:** 7.33 ft
DEPTH OF WELL: 16.89 ft
HEIGHT OF WATER: 9.56 ft
( 9.56 ) X .65 X 3 = 18.64

GALLONS OF H2O TO BE PURGED: 19

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 09:21

pH 7.03 su TEMP 11.4 °C

DISSOLVED O2 14.57 ppm SPECIFIC CONDUCTIVITY 723 us/cm

PURGE END TIME: 10:43

pH 7.04 su TEMP 10.4 °C

DISSOLVED O2 3.11 ppm SPECIFIC CONDUCTIVITY 723 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.89 ft (SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ®

BAILER)

TOTAL VOLUME PURGED: 19 gal

pH 7.04 su TEMP 10.3 °C DISSOLVED O2 3.04 ppm SPECIFIC CONDUCTIVITY 722 us/cm

COMMENTS: Orange tinge.

### U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: 0CW2MW33 NJDEP ID #: 29-32597 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 02/11/99

WEATHER: Calm, Clear.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 51.09 ft

**DEPTH TO WATER:** 8.13 ft
DEPTH OF WELL: 16.10 ft
HEIGHT OF WATER: 7.97 ft
( 7.97 ) X .65 X 3 = 15.54

GALLONS OF H2O TO BE PURGED: 16 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 09:26

pH 6.73 su TEMP 10.5 °C

DISSOLVED O2 10.29 ppm SPECIFIC CONDUCTIVITY 429 us/cm

PURGE END TIME: 10:35

pH 6.70 su TEMP 9.9 °C

DISSOLVED O2 4.25 ppm SPECIFIC CONDUCTIVITY 429 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.37 ft
(SAMPLING METHOD: DEDICATED( LAW NJDEP FSPM 1992) TEFLON ®
BAILER)

TOTAL VOLUME PURGED: 16 gal

pH 6.71 su TEMP 9.7 °C

DISSOLVED 02 4.21 ppm SPECIFIC CONDUCTIVITY 428 us/cm

COMMENTS: Cloudy, orange tinge.

## US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEPE # 13461

### **Definition of Qualifiers**

MDL: Method Detection Limit

J : Compound identified below detection limit

B : Compound in both sample and blank

D: Results from dilution of sample

U : Compound searched for but not detected

Data File

V05824.D

Operator

Skelton

Date Acquired 19 Feb 1999 1:44 pm

Sample Name

Vblk157

Field ID

Vblk157

Sample Multiplie1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein	Ю1.	Response	not detected	50	1.85 ug/L	Quanner
107131	Acrylonitrile		<del>                                     </del>	not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol		<del>   </del>	not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected_	nle :	0.16 ug/L	<del></del>
108203	Di-isopropyl ether		<del></del>	not detected	nle	0.16 ug/L	
100203	Dichlorodifluoromethane		<del></del>	not detected	nle	1.68 ug/L	<u> </u>
74-87-3	Chloromethane			not detected		1.16 ug/L	
75-01-4			ļ · · · · · · · · · · · · · · · · · · ·	not detected	30 5	1.16 ug/L	<del></del>
74-83-9	Vinyl Chloride			not detected		1.10 ug/L	
	Bromomethane		<del>                                     </del>	not detected	10		
75-00-3	Chloroethane				nle	1.01 ug/L 0.50 ug/L	
75-69-4	Trichlorofluoromethane		<del>}</del>	not detected	nle		<b></b>
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide		<del> </del>	not detected	nle	0.46 ug/L	<del> </del>
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	<u> </u>
156-60-5	trans-1,2-Dichloroethene		<del></del>	not detected	100	0.16 ug/L	<u></u>
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	<del></del>
108-05-4	Vinyl Acetate		<del> </del>	not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform		<del>                                     </del>	not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride		ļ <u>.                               </u>	not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87 <u>-</u> 5	1,2-Dichloropropane		ļ	not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1 1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not_detected_	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene		ļ	not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	ļ
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	<u> </u>
79-00-5	1,1,2-Trichloroethane		<u> </u>	not detected	3	0.48 ug/L	<u> </u>
127-18-4	Tetrachloroethene		<del></del>	not detected	1	0.32 ug/L	
591-78-6	2-Hexanone		<del> </del>	not detected	nle	0.71 ug/L	<b> </b>
126-48-1	Dibromochloromethane		<del>  </del>	not detected	10	0.86 ug/L	<u> </u>
108-90-7	Chlorobenzene		<del>                                     </del>	not detected	4	0.39 ug/L	<u> </u>
100-41-4	Ethylbenzene		<del> </del>	not detected	700	0.65 ug/L	<u> </u>
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene		<del>  </del>	not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform		<del>                                     </del>	not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane		<del> </del>	not detected	2	0.47 ug/L	<u> </u>
541-73-1	1,3-Dichlorobenzene		<del> </del>	not detected	600	0.55 ug/L	<u> </u>
106-46-7	1,4-Dichlorobenzene		<del> </del>	not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	<u></u>

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established R.T. = Retention Time

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	EL	ו ס	D

Lab Name:	FMETL		Project	LTM		Vblk	157
NJDEP#	13461	Case No.: 42	71 Locati	on CW2	SI	DG No.:	
Matrix: (soil/v	vater)	WATER	L	ab Sampl	e ID:	Vblk157	
Sample wt/vo	ol:	5.0 (g/ml) M	<u>L</u> L	ab File ID	:	V05824.D	<del></del>
Level: (low/n	ned)	LOW	ם	ate Rece	ived:	2/11/99	
% Moisture:	not dec.		ם	ate Analy	zed:	2/19/99	
GC Column:	RTX-5	502 ID: <u>0.25</u> (mm)	D	ilution Fa	ctor:	1.0	
Soil Extract V	/olume:	(uL)	S	oil Aliquo	t Volur	me:	(uL)
Number TICs	s found:	1	CONCENTRA (ug/L or ug/Ko		NITS: S/L	<u> </u>	
CAS NO.		COMPOUND NAME		RT	ES	T. CONC.	Q
1. 000110	0-54-3	Hexane		14.25	$\top$	13	JN

Data File

VB02748.D

Sample Name

Vblk84

Operator

Skelton

Field ID

Vbik84

Date Acquired 23-Feb-99

Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	пle	1.68 ug/L	i
74-87-3	Chloromethane			not detected	30	1.16 ug/L	<u> </u>
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	<u> </u>
74-83-9	Bromomethane			not detected	10	1.10 ug/L	1
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	T
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	<u> </u>
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Асетопе			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	<del> </del>
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	1
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1 7	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected		0.40 ug/L	<del> </del>
75-27-4	Bromodichloromethane			not detected	1 1	0.40 ug/L 0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nie	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.39 ug/L 0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected		0.37 ug/L 0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	nle		
127-18-4	Tetrachloroethene		<del></del>	not detected	1	0.48 ug/L 0.32 ug/L	
591-78-6	2-Hexanone			not detected	<del>                                     </del>	0.71 ug/L	
126-48-1	Dibromochloromethane	<del></del>		not detected	nle 10	0.71 ug/L 0.86 ug/L	
108-90-7	Chlorobenzene			not detected	10	0.39 ug/L	
100-41-4	Ethylbenzene	<del></del>	<del></del>	not detected	4 700	0.39 ug/L 0.65 ug/L	· · · · · · · · · · · · · · · · · · ·
	m+p-Xylenes				700		
1330-20-7				not detected	nle	1.14 ug/L	
	o-Xylene		+	not detected	nle	0.62 ug/L	
	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL			Project	LTM			Vblk84	
NJDEP#	13461	Case	No.: <u>4272</u>	SDG N	lo	Lo	cation	2700	
Matrix: (soil/w	vater)	WATER		La	b Sampl	e ID:	Vblk84		
Sample wt/vo	ıl:	5.0	g/ml) ML	La	b File ID	:	VB0274	8.D	_
Level: (low/m	ned)	LOW		Da	ate Recei	ved:	2/11/99		_
% Moisture: r	not dec.		<u></u>	Da	ate Analy	zed:	2/23/99		_
GC Column:	Rtx5M	S ID: 0.25	_ (mm)	Di	lution Fac	ctor:	1.0		_
Soil Extract V	olume:		(uL)	So	oil Aliquot	Volur	ne:		(uL)
			C	ONCENTRA	TION UN	ITS:			
Number TICs	found:	0	(u	g/L or ug/Kg)	) <u>u</u> G	5/L	·		
CAS NO.		COMPOUND	NAME		RT	ES	T. CON	). D.	Q

Data File

VB02756.D

Skelton

Operator Date Acquired 23-Feb-99 Sample Name

4272.01 Trip Blank

Field ID Sample Multiplier

1

Response	Result	Regulatory Level (ug/l)*	MDL	Qualifi
	not detected	50	1.85 ug/L	
	not detected	50	2,78 ug/L	
 J	not detected	nle	8.52 ug/L	
	not detected	nle	0.16 ug/L	
	not detected	nle	0.25 ug/L	

CAS#	Compound Name	R.T.	Response	Result	(ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2,78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane	l .		not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	-
75-35-4	1,1-Dichloroethene		1	not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL			Project	ĻT	М	Tr	ip Blar	ık
NJDEP#	13461	Ca	se No.: 427	SDG	No _	Le	ocation	2700	<del></del>
Matrix: (soil/	vater)	WATER	-	1	_ab Sa	ample ID:	4272.01		
Sample wt/vo	ol:	5.0	(g/ml) ML		₋ab Fi	le ID:	VB0275	6.D	_
Level: (low/r	ned)	LOW	_	. [	Date F	Received:	2/11/99		_
% Moisture:	not dec.			[	Date A	nalyzed:	2/23/99		_
GC Column:	Rtx5M	S_ ID: 0.2	25 (mm)	[	Dilutio	n Factor.	1.0		_
Soil Extract \	/olume:	<u> </u>	_ (uL)	5	Soil Al	iquot Volu	me:		_ (uL)
				CONCENTR (ug/L or ug/K		N UNITS: UG/L			
Number TICs	s tound:	0	<del></del>						
CAS NO.		COMPOU	ND NAME		R	T ES	T. CON	D	Q

Data File

VB02757.D

Operator Skel

Skelton

Sample Name Field ID 4272.02 Field Blank

Date Acquired 23-Feb-99

Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein	ľ		not detected	50	1.85 ug/L	1
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	<del>                                     </del>
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane	<u> </u>		not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	<del>                                     </del>
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	<del>                                     </del>
75-35-4	1.1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	<del>                                     </del>
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate	-		not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	-
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	<del></del>
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	<del></del>
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	<u> </u>
71-43-2	Benzene			not detected	1 1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1 1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1 1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	<del></del>
110-75-8	2-Chloroethyl vinyl ether			not detected	nje	0.65 ug/L	<del></del>
10061-01-5	cis-1,3-Dichloropropene	· · · · · · · · · · · · · · · · · · ·		not detected	nje	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane		<del></del>	not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.47 ug/L 0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected			
95-50-1	1,2-Dichlorobenzene	-		not detected	75	0.57 ug/L	
70 70-1	-2-Dicting One INSERT			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL			Pi	roject	LTM		Fie	eld Bia	nk
NJDEP#	13461	Cas	se No.: 427	2	SDG N	lo	Lc	ocation	2700	
Matrix: (soil/	water)	WATER			La	ab Sample	ID:	4272.02	2	
Sample wt/vo	ol:	5.0	(g/ml) ML		La	ab File ID:		VB0275	7.D	_
Level: (low/n	ned)	LOW			D	ate Receiv	/ed:	2/11/99		
% Moisture:	not dec.			٠	Da	ate Analyz	ed:	2/23/99		_
GC Column:	Rtx5M	S_ ID: <u>0.2</u>	5 (mm)		Di	lution Fac	tor:	1.0		
Soil Extract \	/olume:		_ (uL)		Sc	oil Aliquot	Volui	me:		_ (uL)
				CONC	ENTRA	TION UNI	TS:			
Number TICs	s found:	00	_	(ug/L o	r ug/Kg	) <u>UG</u>	ſL_			
CAS NO.	·	COMPOU	ND NAME			RT	ES	T. CON	<b>C</b> .	Q

Data File

V05836.D

Operator Skelton

Sample Name Field ID 4271.01 0CW2MW30

Date Acquired

19 Feb 1999 10:24 pm

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein		<u> </u>	not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected.	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether		<u> </u>	not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide		}	not detected	nie	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	<u> </u>
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.47 ug/L 0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.18 ug/L 0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether	· · ·		not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene		<del></del>	not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.48 ug/L 0.32 ug/L	-
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane	***********	· · · · · · · · ·	not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.02 ug/L 0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	-		not detected		0.70 ug/L 0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	2	0.47 ug/L 0.55 ug/L	
106-46-7	1,4-Dichlorobenzene	<del>'                                    </del>		not detected	600		
95-50-1	1,2-Dichlorobenzene	<del></del>		not detected	75	0.57 ug/L 0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	D.	ΙD

Lab Name:	FMETL			Project	L	ΓМ	0CM	/2MW30
NJDEP#	13461	Case	e No.: <u>4271</u>	Locati	on <u></u>	CW2 S	DG No.:	
Matrix: (soil/	water)	WATER		L	ab S	ample ID:	4271.01	
Sample wt/ve	ol:	5.0	(g/ml) ML	L	ab Fi	ile ID:	V05836.E	)
Level: (low/r	med)	LOW		D	ate F	Received:	2/11/99	
% Moisture:	not dec.	·	<del></del>	D	ate A	Analyzed:	2/19/99	
GC Column:	RTX-8	02 ID: 0.25	<u>(mm)</u>	D	ilutio	n Factor:	1.0	
Soil Extract \	√olume:		(uL)	S	oil Al	liquot Volu	ıme:	(uL)
				CONCENTRA				
Number TICs	s found:	0	1	ug/L or ug/Kg	)) 	UG/L		•
CAS NO.		COMPOUN	ID NAME		R	T ES	ST. CONC.	Q

Data File

V05837.D

Operator

Date Acquired

Skelton

19 Feb 1999 11:07 pm

Sample Name

4271.02

Field ID

0CW2MW31

Sample Multiplie 1

107028	R.T.	<u> </u>	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
75650         tert-Butyl alcohol           1634044         Methyl-tert-Butyl ether           108203         Di-isopropyl ether           Dichlorodifluoromethane         Di-isopropyl ether           74-87-3         Chloromethane           75-01-4         Vinyl Chloride           74-83-9         Bromomethane           75-00-3         Chloroethane           75-69-4         Trichlorofluoromethane           67-64-1         Acetone           75-35-4         1,1-Dichloroethene           67-64-1         Acetone           75-15-0         Carbon Disulfide           75-99-2         Methylene Chloride           156-60-5         trans-1,2-Dichloroethene           75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         67-66-3           Chloroform         75-55-6           1,1,1-Trichloroethane           76-23-5         Carbon Tetrachloride           71-43-2         Benzene           107-06-2         1,2-Dichloropropane           75-27-4         Bromodichloromethane           75-27-4         Bromodichloromethane		8 A		not detected	50	1.85 ug/L	
1634044   Methyl-tert-Butyl ether   108203   Di-isopropyl ether   Dichlorodifluoromethane   74-87-3   Chloromethane   75-01-4   Vinyl Chloride   74-83-9   Bromomethane   75-00-3   Chloroethane   75-69-4   Trichlorofluoromethane   75-35-4   1,1-Dichloroethene   67-64-1   Acetone   75-15-0   Carbon Disulfide   T5-09-2   Methylene Chloride   156-60-5   trans-1,2-Dichloroethene   75-35-3   1,1-Dichloroethane   108-05-4   Vinyl Acetate   78-93-3   2-Butanone   cis-1,2-Dichloroethene   67-66-3   Chloroform   75-55-6   1,1,1-Trichloroethane   56-23-5   Carbon Tetrachloride   71-43-2   Benzene   107-06-2   1,2-Dichloroethane   79-01-6   Trichloroethane   78-87-5   1,2-Dichloropropane   75-27-4   Bromodichloromethane   110-75-8   2-Chloroethyl vinyl ether   10061-01-5   cis-1,3-Dichloropropene   108-10-1   4-Methyl-2-Pentanone   108-88-3   Toluene   127-18-4   Tetrachloroethene   217-18-4   Tetrachloroethene   126-48-1   Dibromochloromethane   126-48-1   Dibromochloromethane   108-90-7   Chlorobenzene   1330-20-7   m+p-Xylenes   1330-20-7   o-Xylene   100-42-5   Styrene   75-25-2   Bromoform   79-34-5   1,1,2,2-Tetrachloroethane   541-73-1   1,3-Dichlorobenzene   541-73-1   1,		1 A		not detected	50	2.78 ug/L	
Di-isopropyl ether		) te		not detected	nle	8.52 ug/L	<u> </u>
Dichlorodifluoromethane   74-87-3   Chloromethane   75-01-4   Vinyl Chloride   74-83-9   Bromomethane   75-00-3   Chloroethane   75-69-4   Trichlorofluoromethane   75-35-4   1,1-Dichloroethene   67-64-1   Acetone   75-15-0   Carbon Disulfide   75-09-2   Methylene Chloride   156-60-5   trans-1,2-Dichloroethene   75-35-3   1,1-Dichloroethane   108-05-4   Vinyl Acetate   78-93-3   2-Butanone   cis-1,2-Dichloroethene   67-66-3   Chloroform   75-55-6   1,1,1-Trichloroethane   56-23-5   Carbon Tetrachloride   71-43-2   Benzene   107-06-2   1,2-Dichloroethane   79-01-6   Trichloroethane   79-01-6   Trichloroethane   75-27-4   Bromodichloromethane   110-75-8   2-Chloroethyl vinyl ether   10061-01-5   cis-1,3-Dichloropropene   108-10-1   4-Methyl-2-Pentanone   108-88-3   Toluene   109-90-5   1,1,2-Trichloroethane   127-18-4   Tetrachloroethene   216-48-1   Dibromochloromethane   108-90-7   Chlorobenzene   1330-20-7   o-Xylene   130-42-5   Styrene   75-25-2   Bromoform   79-34-5   1,2,2-Tetrachloroethane   541-73-1   1,3-Dichlorobenzene   541-73-1		14 M		not detected	nle	0.16 ug/L	i
74-87-3         Chloromethane           75-01-4         Vinyl Chloride           74-83-9         Bromomethane           75-00-3         Chloroethane           75-69-4         Trichlorofluoromethane           75-35-4         1,1-Dichloroethene           67-64-1         Acetone           75-15-0         Carbon Disulfide           75-09-2         Methylene Chloride           156-60-5         trans-1,2-Dichloroethene           75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         67-66-3           Chloroform         75-55-6           1,1,1-Trichloroethane         56-23-5           Carbon Tetrachloride         71-43-2           Benzene         107-06-2           1,2-Dichloroethane         79-01-6           78-87-5         1,2-Dichloroethane           75-27-4         Bromodichloromethane           106-101-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           100-102-6         trans-1,3-Dichloropropene		3 D		not detected	nle	0.25 ug/L	
75-01-4         Vinyl Chloride           74-83-9         Bromomethane           75-00-3         Chloroethane           75-69-4         Trichlorofluoromethane           75-35-4         1,1-Dichloroethene           67-64-1         Acetone           75-15-0         Carbon Disulfide           75-09-2         Methylene Chloride           156-60-5         trans-1,2-Dichloroethene           75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         67-66-3           Chloroform         75-55-6           1,1,1-Trichloroethane         56-23-5           Carbon Tetrachloride         71-43-2           Benzene         107-06-2           1,2-Dichloroethane         79-01-6           78-87-5         1,2-Dichloroethane           75-27-4         Bromodichloromethane           100-15-5         2-Chloroethyl vinyl ether           100-10-5         2-Chloroethyl vinyl ether           108-88-3         Toluene           100-10-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene		D		not detected	nle	1.68 ug/L	
74-83-9         Bromomethane           75-00-3         Chloroethane           75-69-4         Trichlorofluoromethane           75-35-4         1,1-Dichloroethene           67-64-1         Acetone           75-15-0         Carbon Disulfide           75-09-2         Methylene Chloride           156-60-5         trans-1,2-Dichloroethene           75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         67-66-3           Chloroform         75-55-6           1,1,1-Trichloroethane         56-23-5           Carbon Tetrachloride         71-43-2           Benzene         107-06-2           1,2-Dichloropropane         75-27-4           Bromodichloromethane         75-27-4           100-10-6         Trichloroethyl vinyl ether           100-10-7-8         2-Chloroethyl vinyl ether           100-10-8         2-Chloroethyl vinyl ether           100-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           100-10-2-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4		3 C		not detected	30	1.16 ug/L	
75-00-3         Chloroethane           75-69-4         Trichlorofluoromethane           75-35-4         I,1-Dichloroethene           67-64-1         Acetone           75-15-0         Carbon Disulfide           75-09-2         Methylene Chloride           156-60-5         trans-1,2-Dichloroethene           75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         67-66-3           Chloroform         75-55-6           1,1-Trichloroethane         56-23-5           Carbon Tetrachloride         71-43-2           Benzene         107-06-2           1,2-Dichloroethane         78-87-5           1,2-Dichloroethane         78-87-5           75-27-4         Bromodichloromethane           100-10-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           108-88-3         Toluene           109-90-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           100-48-1         Ethylbenzene		4 V		not detected	5	1.06 ug/L	
75-69-4         Trichlorofluoromethane           75-35-4         I,1-Dichloroethene           67-64-1         Acetone           75-15-0         Carbon Disulfide           75-09-2         Methylene Chloride           156-60-5         trans-1,2-Dichloroethene           75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         67-66-3           Chloroform         75-55-6           1,1,1-Trichloroethane         56-23-5           Carbon Tetrachloride         71-43-2           Benzene         107-06-2           1,2-Dichloroethane         78-87-5           1,2-Dichloroethane         78-87-5           1,2-Dichloropropane         75-27-4           Bromodichloromethane         10061-01-5           105-1,3-Dichloropropene         108-10-1           4-Methyl-2-Pentanone         108-88-3           100ene         108-88-3           10uene         100-10-5           1,1,2-Trichloroethane         127-18-4           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           100-41-4         Ethylbenzene		9 B		not detected	10	1.10 ug/L	<del></del>
75-35-4         I,1-Dichloroethene           67-64-1         Acetone           75-15-0         Carbon Disulfide           75-09-2         Methylene Chloride           156-60-5         trans-1,2-Dichloroethene           75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         Chloroform           75-55-6         1,1,1-Trichloroethane           56-23-5         Carbon Tetrachloride           71-43-2         Benzene           107-06-2         1,2-Dichloroethane           79-01-6         Trichloroethene           78-87-5         1,2-Dichloropropane           75-27-4         Bromodichloromethane           100-10-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           100-41-4         Ethylbenzene           1330-20-7         o-Xylene<		3 C		not detected	nie	1.01 ug/L	
67-64-1         Acetone           75-15-0         Carbon Disulfide           75-09-2         Methylene Chloride           156-60-5         trans-1,2-Dichloroethene           75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         67-66-3           Chloroform         75-55-6           1,1-Trichloroethane         56-23-5           Carbon Tetrachloride         71-43-2           Benzene         107-06-2           1,2-Dichloroethane         79-01-6           78-87-5         1,2-Dichloroethane           75-27-4         Bromodichloromethane           100-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-83-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           106-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene		4 Tı		not detected	nle	0.50 ug/L	
67-64-1         Acetone           75-15-0         Carbon Disulfide           75-09-2         Methylene Chloride           156-60-5         trans-1,2-Dichloroethene           75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         67-66-3           Chloroform         75-55-6           1,1,1-Trichloroethane         56-23-5           Carbon Tetrachloride         71-43-2           Benzene         107-06-2           1,2-Dichloroethane         79-01-6           78-87-5         1,2-Dichloroethane           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           100-41-4         Ethylbenzene           1330-20-7         o-Xylene		4 I.		not detected	2	0.24 ug/L	<del>                                     </del>
75-09-2         Methylene Chloride           156-60-5         trans-1,2-Dichloroethene           75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         67-66-3           Chloroform         75-55-6           1,1,1-Trichloroethane         56-23-5           Carbon Tetrachloride         71-43-2           Benzene         107-06-2           1,2-Dichloroethane         79-01-6           78-87-5         1,2-Dichloropropane           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-83-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           100-41-4         Ethylbenzene           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane<				not detected	700	1.36 ug/L	
75-09-2         Methylene Chloride           156-60-5         trans-1,2-Dichloroethene           75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         67-66-3           Chloroform         75-55-6           1,1,1-Trichloroethane         56-23-5           Carbon Tetrachloride         71-43-2           Benzene         107-06-2           1,2-Dichloroethane         79-01-6           78-87-5         1,2-Dichloroethane           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           100-41-4         Ethylbenzene           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform				not detected	nie	0.46 ug/L	<u> </u>
156-60-5	<u> </u>			not detected	2	0.24 ug/L	
75-35-3         1,1-Dichloroethane           108-05-4         Vinyl Acetate           78-93-3         2-Butanone           cis-1,2-Dichloroethene         cis-1,2-Dichloroethene           67-66-3         Chloroform           75-55-6         1,1,1-Trichloroethane           56-23-5         Carbon Tetrachloride           71-43-2         Benzene           107-06-2         1,2-Dichloroethane           78-87-5         1,2-Dichloropropane           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           100-41-4         Ethylbenzene           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	100	0.16 ug/L	
108-05-4   Vinyl Acetate   78-93-3   2-Butanone   cis-1,2-Dichloroethene   67-66-3   Chloroform   75-55-6   1,1,1-Trichloroethane   56-23-5   Carbon Tetrachloride   71-43-2   Benzene   107-06-2   1,2-Dichloroethane   79-01-6   Trichloroethene   78-87-5   1,2-Dichloropropane   75-27-4   Bromodichloromethane   110-75-8   2-Chloroethyl vinyl ether   10061-01-5   cis-1,3-Dichloropropene   108-10-1   4-Methyl-2-Pentanone   108-88-3   Toluene   10061-02-6   trans-1,3-Dichloropropene   1,1,2-Trichloroethane   127-18-4   Tetrachloroethene   591-78-6   2-Hexanone   126-48-1   Dibromochloromethane   108-90-7   Chlorobenzene   1330-20-7   m+p-Xylenes   1330-20-7   c-Xylene   100-42-5   Styrene   75-25-2   Bromoform   79-34-5   1,1,2,2-Tetrachloroethane   541-73-1   1,3-Dichlorobenzene				not detected	70	0.10 ug/L	· · · · · · · · · · · · · · · · · · ·
78-93-3         2-Butanone           cis-1,2-Dichloroethene         67-66-3           Chloroform         75-55-6           1,1,1-Trichloroethane         56-23-5           Carbon Tetrachloride         71-43-2           Benzene         107-06-2           1,2-Dichloroethane         79-01-6           Trichloroethene         78-87-5           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene			<del></del>	not detected	nle	0.78 ug/L	
cis-1,2-Dichloroethene				not detected	300	0.62 ug/L	
67-66-3         Chloroform           75-55-6         1.1,1-Trichloroethane           56-23-5         Carbon Tetrachloride           71-43-2         Benzene           107-06-2         1,2-Dichloroethane           79-01-6         Trichloroethene           78-87-5         1,2-Dichloropropane           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene		_		not detected	10	0.02 ug/L	
75-55-6         1,1,1-Trichloroethane           56-23-5         Carbon Tetrachloride           71-43-2         Benzene           107-06-2         1,2-Dichloroethane           79-01-6         Trichloroethene           78-87-5         1,2-Dichloropropane           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene	<u> </u>			not detected	6	0.30 ug/L	
56-23-5         Carbon Tetrachloride           71-43-2         Benzene           107-06-2         1,2-Dichloroethane           79-01-6         Trichloroethene           78-87-5         1,2-Dichloropropane           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	30	0.23 ug/L	
71-43-2         Benzene           107-06-2         1,2-Dichloroethane           79-01-6         Trichloroethene           78-87-5         1,2-Dichloropropane           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	2	0.47 ug/L	
107-06-2         1,2-Dichloroethane           79-01-6         Trichloroethene           78-87-5         1,2-Dichloropropane           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	1 1	0.23 ug/L	
79-01-6         Trichloroethene           78-87-5         1,2-Dichloropropane           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           1330-20-7         m+p-Xylenes           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	2	0.18 ug/L	
78-87-5         1,2-Dichloropropane           75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           1330-20-7         m+p-Xylenes           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	1	0.13 ug/L	
75-27-4         Bromodichloromethane           110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene	1			not detected	1	0.40 ug/L	
110-75-8         2-Chloroethyl vinyl ether           10061-01-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           1330-20-7         m+p-Xylenes           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene			<del></del>	not detected	1	0.40 ug/L	
10061-01-5         cis-1,3-Dichloropropene           108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           1330-20-7         m+p-Xylenes           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene	<del>-</del>			not detected	nle	0.65 ug/L	
108-10-1         4-Methyl-2-Pentanone           108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene		<del></del> -		not detected	nle	0.69 ug/L	
108-88-3         Toluene           10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         m+p-Xylenes           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	400	0.59 ug/L	
10061-02-6         trans-1,3-Dichloropropene           79-00-5         1,1,2-Trichloroethane           127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         m+p-Xylenes           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	1000	0.37 ug/L	
79-00-5 1,1,2-Trichloroethane 127-18-4 Tetrachloroethene 591-78-6 2-Hexanone 126-48-1 Dibromochloromethane 108-90-7 Chlorobenzene 100-41-4 Ethylbenzene 1330-20-7 m+p-Xylenes 1330-20-7 o-Xylene 100-42-5 Styrene 75-25-2 Bromoform 79-34-5 1,1,2,2-Tetrachloroethane 541-73-1 l,3-Dichlorobenzene				not detected	nle	0.87 ug/L	
127-18-4         Tetrachloroethene           591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         m+p-Xylenes           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	3	0.48 ug/L	
591-78-6         2-Hexanone           126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         m+p-Xylenes           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene	<del>  </del>	<del>                                      </del>		not detected	1	0.32 ug/L	
126-48-1         Dibromochloromethane           108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         m+p-Xylenes           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	nle	0.71 ug/L	<del></del> -i
108-90-7         Chlorobenzene           100-41-4         Ethylbenzene           1330-20-7         m+p-Xylenes           1330-20-7         o-Xylene           100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	10	0.71 ug/L 0.86 ug/L	-
100-41-4 Ethylbenzene 1330-20-7 m+p-Xylenes 1330-20-7 o-Xylene 100-42-5 Styrene 75-25-2 Bromoform 79-34-5 1,1,2,2-Tetrachloroethane 541-73-1 1,3-Dichlorobenzene				not detected	4	0.39 ug/L	
1330-20-7 m+p-Xylenes 1330-20-7 o-Xylene 100-42-5 Styrene 75-25-2 Bromoform 79-34-5 1,1,2,2-Tetrachloroethane 541-73-1 1,3-Dichlorobenzene				not detected	700	0.55 ug/L 0.65 ug/L	
1330-20-7     o-Xylene       100-42-5     Styrene       75-25-2     Bromoform       79-34-5     1,1,2,2-Tetrachloroethane       541-73-1     1,3-Dichlorobenzene				not detected	nle	1.14 ug/L	
100-42-5         Styrene           75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected	nle	0.62 ug/L	
75-25-2         Bromoform           79-34-5         1,1,2,2-Tetrachloroethane           541-73-1         1,3-Dichlorobenzene				not detected		0.56 ug/L	<del></del>
79-34-5 1,1,2,2-Tetrachloroethane 541-73-1 1,3-Dichlorobenzene				not detected	100	0.70 ug/L	··
541-73-1 1,3-Dichlorobenzene				not detected	4		
	+				2	0.47 ug/L	——-
106-46-7 1,4-Dichlorobenzene			<del></del>	not detected	600	0.55 ug/L	
95-50-1 1,2-Dichlorobenzene				not detected not detected	75 600	0.57 ug/L 0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD !	D
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Lab Name:	FMETL			Pr	oject	LTM		0CW2	2MW31
NJDEP#	13461	Ca:	se No.: <u>427</u>	1	Location	CW2	SI	_ DG No.:	
Matrix: (soil/v	water)	WATER	_		Lab	Sample	ID:	4271.02	
Sample wt/vo	ol:	5.0	(g/ml) ML		Lab	File ID:		V05837.D	
Level: (low/n	ned)	LOW	_	•	Dat	e Receive	ed:	2/11/99	
% Moisture: ı	not dec.				Dat	e Analyze	ed:	2/19/99	
GC Column:	RTX-5	02 ID: 0.2	.5 (mm)		Dilu	tion Fact	:ינכ	1.0	· 
Soil Extract V	/olume:		_ (uL)		Soil	Aliquot ∨	olur/	me:	(uL)
				CONCE	ENTRAT	דואט אסו	S:		
Number TICs	s found:	0		(ug/L o	r ug/Kg)	UG/L	•	······································	
CAS NO.		COMPOU	ND NAME			RT	ES	T. CONC.	Q

Data File

V05838.D

Operator

Skelton

Date Acquired 19 Feb 1999 11:50 pm

Sample Name

4271.03

Field ID

0CW2MW32

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	L		not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
<u>74-87-3</u>	Chloromethane			not detected	30	1.16 ug/L	
<u>75-01-4</u>	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75 <b>-</b> 00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane		•	not detected	nle	0.50 ug/L	
75 <b>-</b> 35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67 <b>-</b> 64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	<u>                                     </u>
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1.1.1-Trichloroethane		*******	not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.13 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane	-		not detected	ī	0.55 ug/L	:
110-75-8	2-Chloroethyl vinyl ether		· · · · · · · · · · · · · · · · · · ·	not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected		0.87 ug/L	
79-00-5	1.1.2-Trichloroethane			not detected	nle 3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.48 ug/L 0.32 ug/L	· ·
591-78-6	2-Hexanone			not detected	-	0.32 ug/L 0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	nie 10	0.71 ug/L 0.86 ug/L	<del></del>
108-90-7	Chlorobenzene			not detected	10	0.86 ug/L 0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes	<del></del>		not detected		1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle nle	0.62 ug/L	
100-42-5	Styrene			not detected		0.52 ug/L 0.56 ug/L	
75-25-2	Bromoform			not detected	100	0.36 ug/L 0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane		·	not detected	4		
541-73-1	1,3-Dichlorobenzene				2	0.47 ug/L	
106-46-7	1,4-Dichlorobenzene		<u>-</u>	not detected not detected	600 75	0.55 ug/L 0.57 ug/L	
	TATE DIGITION OF CHIZOTIC		I	noi detected 1	75	U 3 / 110/1	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Project	L	.TM	0CW	2MW32
NJDEP#	13461	Ca	se No.: 427	1 Locati	on _	CW2	DG No.:	
Matrix: (soil/	water)	WATER	<del></del>	L	ab S	Sample ID:	4271.03	
Sample wt/ve	ol:	5.0	(g/ml) ML	L	ab F	ile ID:	V05838.D	
Level: (low/r	ned)	LOW	_	D	ate	Received:	2/11/99	· · ·
% Moisture:	not dec.			D	ate .	Anaiyzed:	2/19/99	<i>v</i>
GC Column:	RTX-5	02 ID: 0.2	25 (mm)	D	ilutic	on Factor:	1.0	
Soil Extract \	√olume:		_ (uL)	S	oil A	liquot Volu	ıme:	(uL)
Number TICs	s found:	0		CONCENTRA (ug/L or ug/Kg		ON UNITS: UG/L		
CAS NO.		СОМРОИ	ND NAME		F	RT ES	ST. CONC.	Q

Data File

V05839.D

Operator

Date Acquired

Skelton

20 Feb 1999 12:34 am

Sample Name

4271.04

Field ID

0CW2MW33

Sample Multiplie  ${\bf 1}$ 

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein		<u> </u>	not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	***
108203	Di-isopropyl ether		Ì	not detected	nle	0.25 ug/L	-
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	-
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene	†		not detected	2	0.24 ug/L	<del> </del>
67-64-1	Acetone	<u> </u>		not detected	700	1.36 ug/L	<del> </del>
75-15-0	Carbon Disulfide	<del> </del>		not detected		0.46 ug/L	· · ·
75-09-2	Methylene Chloride			not detected	nle 2	0.46 ug/L 0.24 ug/L	-
156-60-5	trans-1,2-Dichloroethene		-	not detected	100	0.24 ug/L 0.16 ug/L	<del></del>
75-35-3	1.1-Dichloroethane	<u> </u>		not detected	1	0.18 ug/L 0.12 ug/L	
108-05-4	Vinvl Acetate			not detected	70		
78-93-3	2-Butanone			not detected	nle	0.78 ug/L	
70 75-5	cis-1,2-Dichloroethene			not detected	300	0.62 ug/L 0.17 ug/L	
67-66-3	Chloroform	<u> </u>		not detected	10	0.17 ug/L 0.30 ug/L	
75-55-6	1,1,1-Trichloroethane		·	not detected	· · · · · · · · · · · · · · · · · · ·	0.30 ug/L	
56-23-5	Carbon Tetrachloride			not detected	30	0.47 ug/L	
71-43-2	Benzene			not detected	2	0.47 ug/L 0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected			
79-01-6	Trichloroethene	-			2	0.18 ug/L	
78-87-5	1,2-Dichloropropane		****	not detected	1	0.23 ug/L	
75-27-4	Bromodichloromethane	1		not detected	1	0.40 ug/L	
110-75-8	2-Chloroethyl vinyl ether	<del>                                     </del>		not detected	1 -	0.55 ug/L	
10061-01-5	cis-1,3-Dichloropropene	<del></del>		not detected	nle	0,65 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nie	0.69 ug/L	<del></del> i
108-88-3	Toluene			not detected	400	0.59 ug/L	
10061-02-6	trans-1,3-Dichloropropene	<del> </del>	<del> </del>	not detected	1000	0.37 ug/L	
79-00-5	1.1.2-Trichloroethane			not detected not detected	nle	0.87 ug/L	
127-18-4	Tetrachloroethene			not detected not detected	3	0.48 ug/L	
591-78-6	2-Hexanone	<del></del>		not detected	1	0.32 ug/L	
126-48-1	Dibromochloromethane		<del></del>	not detected	nle	0.71 ug/L	
108-90-7	Chlorobenzene	-		not detected	10	0.86 ug/L	
100-41-4	Ethylbenzene	<del></del>	<del> </del>	not detected	4	0.39 ug/L	
1330-20-7	m+p-Xylenes				700	0.65 ug/L	
1330-20-7	o-Xylene	+		not detected	nle	1.14 ug/L	
100-42-5				not detected	nle	0.62 ug/L	
75-25-2	Styrene			not detected	100	0.56 ug/L	
79 <b>-</b> 34-5	Bromoform			not detected	4	0.70 ug/L	
541-73-1	1,1,2,2-Tetrachloroethane		···	not detected	2	0.47 ug/L	
106-46-7	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
95-50-1	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
22-20-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

#### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	ΕĮ	_D	ID

		, = 11171		111 120 001111 0	.01	100			
Lab Name:	FMETL			Project	Ţ	_TM		0CW2M	W33
NJDEP#	13461	c	ase No.: <u>427</u>	1 Locatio	on	CW2	s	DG No.:	
Matrix: (soil/	water)	WATER		La	ab S	Sample	ID:	4271.04	
Sample wt/vo	ol:	5.0	(g/ml) <u>M</u> L	La	ab I	File ID:		V05839.D	
Level: (low/r	ned)	LOW	<del></del>	D	ate	Receive	ed:	2/11/99	
% Moisture:	not dec.			D	ate	Analyze	ed:	2/20/99	
GC Column:	RTX-5	<u> </u>	.25 (mm)	Di	iluti	on Facto	or:	1.0	
Soil Extract \	/olume:		(uL)	So	oil A	Aliquot V	olu:	me:	(uL)
			÷	CONCENTRA	JIT	דומט מכ	S:		
Number TiCs	s found:	0		(ug/L or ug/Kg	)	UG/L	_	<del></del>	
CAS NO.		COMPO	UND NAME		ļ	<b>२</b> Т	ES	T. CONC.	Q

### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BN02825.D

Sample Name

Sbik206

1

Operator

Bhaskar

Misc Info

Sblk206 A 990216

Date Acquired

16-Feb-99

Sample Multiplier

Regulatory

CAS#	Name	<u>R</u> .T.	Response	Result	Regulatory Level (ug/L)*	_MDL	Qualifiers
110-86-1	Pyridine			_ not detected	NLE	5.00 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug/L	
62-53-3	Aniline			not detected	NLE	0.15 ug/L	
108-95-2	Phenol			not_detected	4000	0.47 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug/L	
95-57-8	2-Chlorophenol			not_detected	40	0.18 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene	_)		not detected	600	0.16 ug/L	14
	2-Methylphenol			not detected	NLE	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/L	
	4-Methylphenol			not detected	NLE	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46 ug/L	
78-59-1	Isophorone			not detected	100	0.35 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug/L	
65-85-0	Benzoic Acid			_not_detected	NLE	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug/L	ļ
87-68-3	Hexachlorobutadiene			not_detected	11	0.38 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE.	0.32 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/L	ļ <u></u>
131-11-3	Dimethylphthalate	4		not detected	7000	0.18 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	<u> </u>
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/L	<u> </u>
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/L	
83-32-9	Acenaphthene			not detected	400	0.26 ug/L	
51-28-5	2,4-Dinitrophenol	1. 1		not detected	40	0.69 ug/L	
132-64-9	Dibenzofuran			not_detected	NLE	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name

BN02825.D

Operator

Bhaskar

Date Acquired

16-Feb-99

Sample Name

Sblk206

Misc Info

Info Sblk206 A 990216

Sample Multiplier

1

					Regulatory Level		
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36 ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82 ug/L	
86-73-7	Fluorene			not detected	300	0.29 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23 ug/L	
103-33-3	Azobenzene	<u> </u>	<u> </u>	not detected	NLE	0.80 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55 ug/L	
<u>118-74-1</u>	Hexachlorobenzene			not detected	10	0.82 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08 ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18 ug/L	
120-12-7	Anthracene			not detected	2000	0.19 ug/L	
<b>84-74</b> -2	Di-n-butylphthalate			not detected	900	0,23 ug/L	
<del>206-44-</del> 0	Fluoranthene	T		not detected	300	0.41 ug/L	
<b>92-8</b> 7-5	Benzidine			not detected	50	1.45 ug/L	
129-00-0	Pyrene	T		not detected	200	0.32 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	0.22 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46 ug/L	
218-01-9	Chrysene			not detected	20	0.20 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32 ug/L	
50 <b>-</b> 32-8	Benzo[a]pyrene			not detected	20	0.31 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79 ug/L	
5 <b>3-</b> 70-3	Dibenz[a,h]anthracene			not detected	20	0.28 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40 ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time 1F

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

Lab Name:	FMETL		Lab Co	d 13461		Sblk2	906
Project:	LTM	Case No.: 4271	Loca	tion: CW-2	S	DG No:	
Matrix: (soil/	water)	WATER		Lab Sample	e ID:	Sblk206	
Sample wt/vo	ol:	1000 (g/ml) ML		Lab File ID:		BN02825.D	
Level: (low/r	ned)	LOW		Date Recei	ved:	2/11/99	
% Moisture:		decanted: (Y/N) _	N	Date Extrac	ted:	2/16/99	
Concentrated	d Extract	Volume: 1000 (uL)	i	Date Analyz	zed:	2/16/99	
Injection Volu	ıme: <u>1.</u>	0 (uL)		Dilution Fac	ctor:	1.0	
GPC Cleanu	p: (Y/N)	pH:		-			
		•	CONCE	NTRATION	UNI	TS:	
Number TICs	s found:	1	(ug/L or	ug/Kg)	UG/I	<u></u>	
CAS NUME	BER	COMPOUND NAME		RT	ES	T. CONC.	Q
1.		unknown		29.18		80	J

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name

Date Acquired

Operator

BN02833.D

Bhaskar 17-Feb-99 Sample Name

4272.02

Misc Info

Field Blank

Sample Multiplier

1

		ne R.T. Response Result Level (ug/L)*  dine not detected NLE itroso-dimethylamine not detected NLE not detected NLE					
CAS#	Name	R.T.	Response	Result		MDL	Owks
110-86-1	Pyridine				NIF	5.00 ug/	Qualifiers
62-75-9	N-nitroso-dimethylamine			····		0.94 ug/	
62-53-3	Aniline					0.15 ug/	
108-95-2	Phenol			not detected	4000	0.17 ug/	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug/	
95-57-8	2-Chlorophenol			not detected	40	0.18 ug/	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug/	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug/	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug/	
	2-Methylphenol			not detected	NLE	0.14 ug/	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/	
	4-Methylphenol			not detected	NLE	0.14 ug/	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug/	
67-72-1	Hexachloroethane			not detected	10	0.33 ug/l	
98-95-3	Nitrobenzene			not detected	10	0.46 ug/	
78-59-1	Isophorone			not detected	100	0.35 ug/	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug/l	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug/l	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/l	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug/I	
65 <b>-85</b> -0	Benzoic Acid			not detected	NLE	0.26 ug/I	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/I	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/I	
106-47-8	4-Chioroaniline			not detected	NLE	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug/I	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug/I	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/I	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/L	
38-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/L	
	2,4,5-Trichlorophenol	<u> </u>		not detected	700	0.31 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/L	
8-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/L	
31-11-3	Dimethylphthalate	<u> </u>		not detected	7000	0.18 ug/L	·
08-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	
06-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/L	
9-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/L	
3-32-9	Acenaphthene			not detected	400	0.26 ug/L	<del>,</del>
1-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/L	
32-64-9	Dibenzofuran			not detected	NLE	0.32 ug/L	
00-02-7	4-Nitrophenol			not detected	NLE	0.32 ug/L 0.27 ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BN02833.D

Operator

Bhaskar 17-Feb-99 Sample Name

4272.02

Misc Info

Field Blank

Sample Multiplier

1

CAS#	Name			<b>-</b>	Regulatory Level (ug/L)*		
121-14-2	2.4-Dinitrotoluene	R.T.	Response	Result	<del></del>	MDL	Qualifiers
84-66-2	Diethylphthalate	+		not detected	10	0.36 ug/L	<del> </del>
86-73-7	Fluorene	<b>—</b>		not detected	5000	0.82 ug/L	<del> </del>
7005-72-3	4-Chlorophenyl-phenylether			not detected	300	0.29 ug/L	<del> </del> -
100-01-6	4-Nitroaniline	1		not detected	NLE	0.31 ug/L	<del> </del>
534-52-1	4,6-Dinitro-2-methylphenoi			not detected	NLE	0.90 ug/L	
86-30-6	n-Nitrosodiphenylamine	1		not detected	NLE	0.44 ug/L	
103-33-3	Azobenzene	<del>  </del>		not detected	20	0.23 ug/L	ļ
101-55-3	4-Bromophenyl-phenylether	1 1		not detected	NLE	0.80 ug/L	
118-74-1	Hexachlorobenzene	+	· · · · · · · · · · · · · · · · · · ·	not detected	NLE	0.55 ug/L	<del>                                     </del>
87-86-5	Pentachlorophenol	<del></del>		not detected	10	0.82 ug/L	
85-01-8	Phenanthrene	+ -	<del></del>	not detected	1	1.08 ug/L	<del> </del>
120-12-7	Anthracene	+		not detected	NLE	0.18 ug/L	
84-74-2	Di-n-butylphthalate	╁┈╾┪		not detected	2000	0.19 ug/L	<del> </del> -
206-44-0	Fluoranthene	╁╌┷╅		not detected	900	0.23 ug/L	<del> </del> -
92-87-5	Benzidine	1 1		not detected	300	0.41 ug/L	<del> </del>
129-00-0	Pyrene	╁╌╌╁		not detected	50	1.45 ug/L	├
85-68-7	Butylbenzylphthalate	<del>  </del>		not detected	200	0.32 ug/L	<u> </u>
56-55-3	Benzofa]anthracene	1		not detected	100	0.47 ug/L	
91 <b>-</b> 94-1	3.3'-Dichlorobenzidine	<del>  </del>		not detected	10	0.22 ug/L	<b></b>
218-01-9	Chrysene	1 1		not detected	60	0.46 ug/L	ļ
11 <b>7-</b> 81-7	bis(2-Ethylhexyl)phthalate	+		not detected	20	0.20 ug/L	ļ <u>.</u>
17-84-0	Di-n-octylphthalate	<del>                                     </del>		not detected	30	0.51 ug/L	<u> </u>
205-99-2	Benzo[b]fluoranthene	<del>                                     </del>		not detected	100	0.82 ug/L	
207-08-9	Benzo[8] fluoranthene	<del> </del>		not_detected	10	0.37 ug/L	
0-32-8				not detected	2	0.32 ug/L	
93-39-5	Benzo[a]pyrene Indeno[1,2,3-cd]pyrene	<del>                                     </del>		not detected	20	0.31 ug/L	<b></b>
	<del></del>			not detected	20	0.79 ug/L	
3-70-3	Dibenz[a,h]anthracene			not detected	20	0.28 ug/L	
91-24-2	Benzo[g,h,i]perylene	<u> </u>		not detected	NLE	0.40 ug/L	}

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

Page 2 of 2

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field	ID:

Lab Name:	FMETL		Lab Co	od 13	461	Field B	lank
Project:	LTM	Case No.: 4272	Loca	ation: 2	700 M S	DG No:	
Matrix: (soil/	water)	WATER		Lab Sa	mple ID:	4272.02	
Sample wt/ve	ol:	1000 (g/ml) ML		Lab Fil	e ID:	BN02833.D	
Level: (low/r	ned)	LOW		Date R	eceived:	2/11/99	
% Moisture:		decanted: (Y/N)	N	Date E	xtracted:	2/16/99	
Concentrated	d Extract	Volume: 1000 (uL)	<del></del>	Date A	nalyzed:	2/17/99	
Injection Volu	ume: <u>1.</u>	0 (uL)		Dilution	Factor:	1.0	
GPC Cleanu	p: (Y/N)	NpH:			·		
Number TICs	s found:	1	CONCE		TON UNI		
CAS NUME	BER	COMPOUND NAME		R	Γ ES	ST. CONC.	Q
1.		unknown		29	16	75	J

#### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BN02829.D

Operator

Date Acquired

Bhaskar 16-Feb-99 Sample Name

4271.01

Misc Info

0CW2MW30

Sample Multiplier

1

G. G.					Regulatory Level			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00		
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94	ug/L	
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol	+		not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ıg/L	
······································	4-Methylphenol	1 1		not detected	NLE	0.14	ig/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ıg/L	
67-72-1	Hexachloroethane			not detected	10	0.33 ι	1g/L	
98-95-3	Nitrobenzene			not detected	10	0.46 เ	ıg/L	
78-59-1	Isophorone	1		not detected	100	0.35 1	ıg/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 u	ıg/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 t	ıg/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 v	ıg/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 u	ıg/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26 u	g/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 u	g/L	
91-20-3	Naphthalene			not detected	NLE	0.25 บ	g/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ս	g/L	
37-68-3	Hexachlorobutadiene			not detected	1	0.38 u	g/L	
9-50-7	4-Chloro-3-methylphenol	<u> </u>		not detected	NLE	0.18 u		
1-57-6	2-Methylnaphthalene			not detected	NLE	0.16 u		
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 u	g/L	
8-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 u	g/L	
	2,4,5-Trichlorophenol			not detected	700	0.31 u	g/L	
1-58-7	2-Chloronaphthalene			not detected	NLE	0.32 u	e/L	• • •
8-74-4	2-Nitroaniline			not detected	NLE	0.21 u	_	
31-11-3	Dimethylphthalate			not detected	7000	0.18 u		
08-96-8	Acenaphthylene			not detected	NLE	0.19 u	$\overline{}$	
06-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 us		
9-09-2	3-Nitroaniline			not detected	NLE	0.26 սյ		
3-32-9	Acenaphthene			not detected	400	0.26 ug		
1-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug		
32-64-9	Dibenzofuran			not detected	NLE	0.32 ug	-	
00-02-7	4-Nitrophenol			not detected	NLE	0.27 ug		

#### Semi-Volatile Analysis Report Page 2

Data File Name

BN02829.D

Operator

Bhaskar

Date Acquired 16-Feb-99 Sample Name

4271.01

Misc Info

0CW2MW30

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10		ug/L	Quaimers
84-66-2	Diethylphthalate			not detected	5000		ug/L	
86-73-7	Fluorene			not detected	300		ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE		ug/L	
100-01-6	4-Nitroaniline			not detected	NLE		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE		ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23		
103-33-3	Azobenzene			not detected	NLE		ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55		
118-74-1	Hexachlorobenzene			not detected	10	0.82		
87-86-5	Pentachlorophenol			not detected	1	1.08		
85-01-8	Phenanthrene			not detected	NLE	0.18		
120-12-7	Anthracene			not detected	2000	0.19		-
84-74-2	Di-n-butylphthalate			not detected	900	0.23		
206-44-0	Fluoranthene			not detected	300	0.41		
92-87-5	Benzidine			not detected	50	1.45		
129-00-0	Pyrene		_	not detected	200	0.32		
85-68-7	Butylbenzylphthalate			not detected	100	0.47		
56-55-3	Benzo[a]anthracene			not detected	10	0.22		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46		
218-01-9	Chrysene			not detected	20	0.20		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51		
117-84-0	Di-n-octylphthalate			not detected	100	0.82		•
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37		
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	- 1	
50-32-8	Benzo[a]pyrene			not detected	20		ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79		
3-70-3	Dibenz[a,h]anthracene			not detected	20	0.28		
91-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40		

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Oualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

		TENTIALITY CELL IDENTIFIC	ILD COMI COMES	
Lab Name:	FMETL	·	Lab Cod 13461	0CW2MW30
Project:	LTM	Case No.: 4271	Location: <u>CW-2</u> S	DG No:
Matrix: (soil/	water)	WATER	Lab Sample ID:	4271.01
Sample wt/v	ol:	1000 (g/ml) ML	Lab File ID:	BN02829.D
Level: (low/r	med)	LOW	Date Received:	2/11/99
% Moisture:		decanted: (Y/N)	N Date Extracted:	2/16/99
Concentrated	d Extract	Volume: <u>1000</u> (uL)	Date Analyzed:	2/16/99
Injection Vol	ume: 1.	0 (uL)	Dilution Factor:	1.0
GPC Cleanu	p: (Y/N)	NpH:		
			CONCENTRATION UNI	TS:
Number TICs	s found:	1	(ug/L or ug/Kg) UG/	
CAS NUME	BER	COMPOUND NAME	RT ES	T. CONC. Q
1.		unknown	23.29	13

#### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory

#### NJDEP Certification #13461

Data File Name

BN02830.D

Sample Name

4271.02

Operator Date Acquired Bhaskar 16-Feb-99 Misc Info

0CW2MW31

Sample Multiplier

1

CAS#	Name	Th Tr	Datasas	D	Regulatory Level (ug/L)*		
110-86-1	Pyridine	R.T.	Response	Result	T	MDL	Qualifiers
62-75-9	N-nitroso-dimethylamine	1		not detected	NLE	5.00 u	
62-53-3	Aniline	-		not detected	20	0.94 u	
108-95-2	Phenoi	<del>- </del>		not detected	NLE	0.15 u	
111-44-4	bis(2-Chloroethyl)ether			not detected	4000	0.47 u	
95-57-8	2-Chlorophenol	<del></del>		not detected	10	0.48 u	
541-73-1	1,3-Dichlorobenzene	1 1	<del></del>	not detected	40	0.18 u	
106-46-7	1,4-Dichlorobenzene		<del></del>	not detected	600	0.15 u	
100-46-7				not detected	75	0.23 u	
95-50-1	Benzyl alcohol	-		not detected	NLE	0.18 u	
93-30-1	1,2-Dichlorobenzene	+		not_detected	600	0.16 u	
100 (0.1	2-Methylphenol	+ +		not detected	NLE	0.14 us	
108-60-1	bis(2-chloroisopropyl)ether	<del></del>		not detected	300	0.61 uş	
(0) (4.5	4-Methylphenol	+		not detected	NLE	0.14 սբ	
621-64-7	n-Nitroso-di-n-propylamine	+ +	<del></del>	not detected	20	0.36 կք	
67-72-1	Hexachloroethane	+	-	not detected	10	0.33 us	
98-95-3	Nitrobenzene	<del>-  </del>		not detected	10	0.46 us	
78-59-1	Isophorone	<del>                                     </del>		not detected	100	0.35 us	
88-75-5	2-Nitrophenol	++		not detected	NLE	0.23 ug	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug	/L
111-91-1	bis(2-Chloroethoxy)methane	++		not detected	NLE	0.46 ug	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug	<u>/L  </u>
65-85 <b>-</b> 0	Benzoic Acid			not detected	NLE	0.26 ug	/L
120-82-1	1,2,4-Trichlorobenzene	+ +		not detected	9	0.25 ug	/L
91-20-3	Naphthalene			not detected	NLE	0.25 ug	/L
106-47-8	4-Chloroaniline			not detected	NLE	0.19 ug	/L
87-68-3	Hexachlorobutadiene	1 1		not detected	11	0.38 ug	/L
59-50-7	4-Chloro-3-methylphenol	<del>                                     </del>		not detected	NLE	0.18 ug	/L
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug	/L
77-47-4	Hexachlorocyclopentadiene	4		not detected	50	1.50 ug	/L
88-06-2	2,4,6-Trichlorophenol	<del>  </del>		not detected	20	0.42 ug	/L
	2,4,5-Trichlorophenol	1		not detected	700	0.31 ug	/L
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug	/L:
38-74-4	2-Nitroaniline			not detected	NLE	0.21 ug	Λ.
131-11-3	Dimethylphthalate	11		not detected	7000	0.18 ug	r
208-96-8	Acenaphthylene	<u> </u>		not detected	NLE	0.19 ug	
506-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 ug/	-
9-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/	
3-32-9	Acenaphthene			not detected	400	0.26 ug/	
1-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/	
32-64-9	Dibenzofuran			not detected	NLE	0.32 ug/	
00-02-7	4-Nitrophenol	1		not detected	NLE	0.27 ug/	

#### Semi-Volatile Analysis Report Page 2

Data File Name

BN02830.D

Operator

Date Acquired

Bhaskar

опазка: 16-Feb-99 Sample Name

4271.02

Misc Info

0CW2MW31

Sample Multiplier

1

CAS#	Name	R.T.	Response	Posselle	Regulatory Level (ug/L)*			
121-14-2	2.4-Dinitrotoluene		Veshonse	Result not detected	10	MDL		Qualifiers
84-66-2	Diethylphthalate			not detected	5000	0.36		
86-73-7	Fluorene			not detected	300	0.82		
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.29		
100-01-6	4-Nitroaniline			not detected	NLE	0.90		
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44		
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23		
103-33-3	Azobenzene			not detected	NLE	0.80		
101-55-3	4-Bromophenyi-phenylether			not detected	NLE	0.55 1		
118-74-1	Hexachlorobenzene			not detected	10	0.82		
87-86-5	Pentachloropheno!			not detected	1	1.08		
85-01 <b>-</b> 8	Phenanthrene	1		not detected	NLE	0.18		
120-12-7	Anthracene			not detected	2000	0.19 u		
84-74-2	Di-n-butylphthalate			not detected	900	0.23 u	·	
206-44-0	Fluoranthene			not detected	300	0.41 u		-
92-87-5	Benzidine			not detected	50	1,45 u		
129-00-0	Pyrene			not detected	200	0.32 u		
85-68-7	Butylbenzylphthalate			not detected	100	0.47 u		
56-55-3	Benzo[a]anthracene			not detected	10	0.22 u		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46 u		,
218-01-9	Chrysene			not detected	20	0.20 u		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51 น		
117-84-0	Di-n-octylphthalate			not detected	100	0.82 u		
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37 u		
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32 u		
50-32-8	Benzo[a]pyrene			not detected	20	0.31 u		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79 u		
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28 u		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40 u		

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:

Lab Name:	FMETL	·	Lab Co	d <u>134</u> 61		0CW2N	/IW31
Project:	LTM	Case No.: 4271	Loca	tion: CW-2	2 SE	OG No:	
Matrix: (soil/	water)	WATER	•	Lab Sampl	e ID:	4271.02	
Sample wt/ve	ol:	1000 (g/ml) ML		Lab File ID	:	BN02830.D	
Level: (low/r	med)	LOW		Date Recei	ved:		
% Moisture:	· · · · · · · · · · · · · · · · · · ·	decanted: (Y/N)	N	Date Extra	cted:	2/16/99	
Concentrated	d Extract	Volume: 1000 (uL)		Date Analy	zed:	2/16/99	
Injection Vol	ume: <u>1.</u>	0 (uL)	į	Dilution Fac	ctor:	1.0	
GPC Cleanu	p: (Y/N)	NpH:	ı				
			CONCE	NTRATION	UNIT	S;	
Number TICs	s found:	2	(ug/L or	ug/Kg)	UG/L		
CAS NUME	BER	COMPOUND NAME		RT	EST	r. conc.	Q
1.		unknown		23.28	\ <u>,,,</u>	10	J
2		unknown		20.44		0.4	

#### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name

BN02831.D

Sample Name

4271.03

Operator

Bhaskar

Misc Info

0CW2MW32

Date Acquired

17-Feb-99

Sample Multiplier

1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	_5.00 ug/L	Quanners
62-75-9	N-nitroso-dimethylamine	_		not detected	20	0.94 ug/L	
62-53-3	Aniline			not detected	NLE	_0.15 ug/L	
108-95-2	Phenol		-	not detected	4000	0.47 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.18 ug/L	<u> </u>
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 ug/L	
100-51-6	Benzyl alcohol		· · · · · · · · · · · · · · · · · · ·	not detected	NLE	0.18 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 ug/L	
	2-Methylphenol			not detected	NLE	0.14 ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/L	
	4-Methylphenol		······································	not detected	NLE	0.14 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46 ug/L	
78-59-1	Isophorone			not detected	100	0.35 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug/L	
105-67-9	2,4-Dimethylphenol		-	not detected	100	0.27 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25 ug/L	
106-47-8	4-Chloroaniline		· · · · · ·	not detected	NLE	0.19 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/L	_
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 ug/L	1
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/L	
	2,4,5-Trichlorophenol			not detected	700	0.31 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/L	
88-74-4	2-Nitroaniline	]1		not detected	NLE	0.21 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/L	
606-20-2	2,6-Dinitrotoluene	<u> </u>		not detected	NLE	0.31 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/L	
83-32-9	Acenaphthene			not detected	400	0.26 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name

BN02831.D

Operator Date Acquired

Bhaskar

17-Feb-99

Sample Name

4271.03

Misc Info

0CW2MW32

Sample Multiplier

1

CAS#	Name	R.T.	Response	Daniela	Regulatory Level (ug/L)*			
121-14-2	2,4-Dinitrotoluene	T.1.	жезроцѕе	Result not detected	10	MDL		Qualifiers
84-66-2	Diethylphthalate	1		not detected	5000	1	ug/L	
86-73-7	Fluorene			not detected	300		ug/L	
7005-72-3	4-Chlorophenyl-phenylether	1		not detected	NLE	1	ug/L	
100-01-6	4-Nitroaniline	1		not detected	NLE NLE		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE		ug/L	
86-30-6	n-Nitrosodiphenylamine	<del>     </del>		not detected	20		ug/L ug/L	
103-33-3	Azobenzene	1		not detected	NLE			
101-55-3	4-Bromophenyl-phenylether			not detected	NLE		ug/L ug/L	
118-74-1	Hexachlorobenzene			not detected	10	_	ug/L	
87-86-5	Pentachlorophenol	T	_	not detected	1		ug/L ug/L	
85-01-8	Phenanthrene			not detected	NLE		ug/L ug/L	
120-12-7	Anthracene			not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate			not detected	900		ug/L	
206-44-0	Fluoranthene			not detected	300		ug/L	
92-87-5	Benzidine			not detected	50		ug/L	
129-00-0	Pyrene			not detected	200	0.32		
85-68-7	Butylbenzylphthalate			not detected	100	0.47		
56-55-3	Benzo[a]anthracene			not detected	10	0.22		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46		
218-01-9	Chrysene			not detected	20	0.20		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51		
117-84-0	Di-n-octylphthalate			not detected	100	0.82		
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37		
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32		*
50-32-8	Benzo[a]pyrene			not detected	20		ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	1	
3-70-3	Dibenz[a,h]anthracene			not detected	20	0.28		
91-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	119/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

		TENTAT	IVELY IDENTIF	TED COMPOU	INDS	20140111100
ab Name:	FMETL	_ <u></u>	13461	0CW2MW32		
Project:	LTM	Ca	se No.: 4271	Location	: <u>CW-2</u> S	DG No:
Matrix: (soil/\	vater)	WATER		Lab	Sample ID:	4271.03
Sample wt/vo	ol:	1000	(g/mi) ML	Lab	File ID:	BN02831.D
_evel: (low/r	ned)	LOW	_	Dat	e Received:	2/11/99
% Moisture:		dec	anted: (Y/N)	N Dat	e Extracted:	2/16/99
Concentrated	d Extract	Volume:	1000 (uL)	Dat	e Analyzed:	2/17/99
njection Volu	ume: <u>1.0</u>	<u>)</u> (uL)	•	Dilu	ition Factor:	1.0
GPC Cleanu	p: (Y/N)	N	pH:			

Field ID:

	CONCENTRATION UNITS:				
Number TICs found: 0		(ug/L or ug/Kg)	UG/L ·		
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q	

#### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory

#### NJDEP Certification #13461

Data File Name

Date Acquired

BN02832.D

Sample Name

4271.04

Operator

Bhaskar 17-Feb-99

Misc Info

Sample Multiplier

0CW2MW33 r 1

			_		Regulatory Level (ug/L)*		
CAS#	Name	R.T.	Response	Result	<del></del>	MDL	Qualifiers
110-86-1	Pyridine	+		not detected	NLE	5.00 ug/	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.94 ug/	
62-53-3	Aniline	┿		not_detected	NLE	0.15 ug/	
108-95-2	Phenol			not detected	4000	0.47 ug/	
111-44-4	bis(2-Chloroethyl)ether	+		not detected	10	0.48 ug/l	
95-57-8	2-Chlorophenol			not_detected	40	0.18 ug/	
541-73-1	1,3-Dichlorobenzene	<del> </del>		not detected	600	0.15 ug/l	
106-46-7	1,4-Dichlorobenzene	11		not_detected	75	0.23 ug/l	
100-51-6	Benzyl alcohol			not detected	NLE	0.18 ug/1	
95-50-1	1,2-Dichlorobenzene	4		not detected	600	0.16 ug/l	
	2-Methylphenol	4		not detected	NLE	0.14 ug/l	<u></u>
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61 ug/l	
	4-Methylphenol			not detected	NLE	0.14 ug/l	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 ug/l	
67-72-1	Hexachloroethane	11		not detected	10	0.33 ug/l	
98-95-3	Nitrobenzene	<u> </u>		not detected	10	0.46 ug/l	
78-59-1	Isophorone			not detected	100	0.35 ug/l	
88-75-5	2-Nitrophenol			not detected	NLE	0.23 ug/l	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27 ug/I	,
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ug/I	
120-83-2	2,4-Dichlorophenol		_	not detected	20	0.12 ug/I	
65-85-0	Benzoic Acid			not detected	NLE	0.26 ug/I	
120-82-1	1,2,4-Trichlorobenzene			_not detected	9	0.25 ug/I	,
91-20-3	Naphthalene			not detected	NLE	0.25 ug/I	,
106-47-8	4-Chloroaniline			not detected	NLE .	0.19 ug/I	
87-68-3	Hexachlorobutadiene			not detected	1	0.38 ug/I	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ug/l	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 ug/I	,
77-47-4	Hexachlorocyclopentadiene		_	not detected	50	1.50 ug/I	,
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 ug/I	
	2,4,5-Trichlorophenol			not detected	700	0.31 ug/I	,
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ug/I	, ]
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ug/I	
131-11-3	Dimethylphthalate			not detected	7000	0.18 ug/l	
208-96-8	Acenaphthylene			not detected	NLE	0.19 ug/I	
606-20-2	2,6-Dinitrotoluene	]		not detected	NLE	0.31 ug/I	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 ug/I	
83-32-9	Acenaphthene	<u> </u>		not detected	400	0.26 ug/I	
51-28-5	2,4-Dinitrophenol	<del>                                     </del>		not detected	40	0.69 ug/I	
132-64-9	Dibenzofuran	T 1		not detected	NLE	0.32 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	0.27 ug/1	

#### Semi-Volatile Analysis Report Page 2

Data File Name

BN02832.D

Bhaskar

Operator

Sample Name

4271.04

Misc Info

0CW2MW33

17-Feb-99 Date Acquired

Sample Multiplier

					Regulatory Level (ug/L)*		
CAS#	Name	R.T.	Response	Result	· · · · · · · · · · · · · · · · · · ·	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene	+		not detected	10	0.36 ug	
84-66-2	Diethylphthalate			not detected	5000	0.82 ug	
86-73-7	Fluorene			not_detected	300	0.29 ug	/L
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31 ug	r L
100-01-6	4-Nitroaniline	11		not detected	NLE	0.90 ug	/L
534-52-1	4,6-Dinitro-2-methylphenol			not_detected	NLE	0.44 ug	<u>r  </u>
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23 ug	n_
103-33-3	Azobenzene			not detected	NLE	0.80 ug	r
101-55-3	4-Bromophenyl-phenylether			not_detected	NLE	0.55 ug	ı.
118-74-1	Hexachiorobenzene			not detected	10	0.82 ug	L L
87-86-5	Pentachlorophenol			not detected	1	1.08 ug	r.
85-01-8	Phenanthrene			not detected	NLE	0.18 ug	ı
120-12-7	Anthracene			not detected	2000	0.19 ug	T.
84-74-2	Di-n-butylphthalate			not detected	900	0.23 ug/	ı
206-44-0	Fluoranthene			not detected	300	_0.41 ug/	ı
92-87-5	Benzidine			not detected	50	1.45 ug/	ı
129-00-0	Pyrene			not detected	200	_0.32 ug/	<u>r   </u>
85-68-7	Butylbenzylphthalate			not detected	100	0.47 ug/	ı.
56-55-3	Benzo[a]anthracene			not detected	10	0.22 ug/	ı
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46 ug/	r _
218-01-9	Chrysene			not detected	20	0.20 ug/	l
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51 ug/	L _
117-84-0	Di-n-octylphthalate			not detected	100	0.82 ug/	L
205-99-2	Benzo[b]fluoranthene			not detected	10	_ 0.37 ug/	L
207-08-9	Benzo[k]fluoranthene	] _ ]		_not_detected	2	0.32 ug/	L
50-32-8	Benzo[a]pyrene			not detected	20	0.31 ug/	L
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	_0.79 ug/	L
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28 ug/	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40 ug/	L

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### Qualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

					1	
Lab Name:	FMETI		Lab Cod 1:	3461	0CW2M	W33
Project:	LTM	Case No.: 4271	Location:	CW-2 S	DG No:	
Matrix: (soil/	water)	WATER	Lab S	ample ID:	4271.04	
Sample wt/ve	oi:	1000 (g/ml) ML	Lab F	ile ID:	BN02832.D	
Level: (low/r	med)	LOW	Date i	Received:	2/11/99	
% Moisture:		decanted: (Y/N)	N Date I	Extracted:	2/16/99	<del></del>
Concentrated	d Extract	Volume: 1000 (uL)	Date A	Analyzed:	2/17/99	
Injection Volu	ume: <u>1</u>	.0 (uL)	Dilutio	n Factor:	1.0	
GPC Cleanu	p: <b>(Y/N</b> )	N pH:	_			
N 1 TIO			CONCENTRA			
Number TICs	s found:	2	(ug/L or ug/Kg	) <u>UG/I</u>		
CAS NUME	BER	COMPOUND NAME	R	T ES	T. CONC.	Q
1.		unknown	23	3.29	9	J
) 2		unknown	20	11	22	

Client:

U.S. Army

Lab. ID #:

**BLK287** 

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

2/12/99

Ft. Monmouth, NJ 07703

Analysis Date:

2/27/99

Analysis:

EPA Method 608

Location:

Matrix: Analyst: Aqueous

D. Wright

Field ID:

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLÈ	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	. 1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	. 1		0.50	0.0280	ND ·
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

**BLK288** 

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

2/12/99

Ft. Monmouth, NJ 07703

Analysis Date:

2/27/99

Analysis:

EPA Method 608

Aqueous

Location:

Matrix:

Analyst:

D. Wright

Field ID:

Ext.	Meth:	Sep.	Funne

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochior 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

#### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client:

U.S. Army

Lab. ID #:

4272.02

DPW, SELFM-PW-EV

Date Rec'd:

2/11/99

Bldg. 173

**Extraction Date:** 

2/12/99

Ft. Monmouth, NJ 07703

Analysis Date:

2/27/99

Analysis:

EPA Method 608

Location:

2700 Myer MWs

Matrix: Analyst: Aqueous

D. Wright

Field ID:

Field Blank

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. Fu	111171				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level *	MDL (ug/L)	Result (ug/L)
<u></u>	Factor	Time	(ug/L)	<u> </u>	
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1	. =	0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chiordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochior 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochior 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND.
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	i		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4271.01

DPW, SELFM-PW-EV

Date Rec'd:

2/11/99

Bldg. 173

**Extraction Date:** 

2/12/99

Ft. Monmouth, NJ 07703

Analysis Date:

2/27/99

Analysis:

EPA Method 608

Location:

CW-2 MWs

Matrix:

Aqueous

Field ID:

0CW2MW30

Analyst: Ext. Meth: D. Wright

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachior Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4271.02

DPW, SELFM-PW-EV

Date Rec'd:

2/11/99

Bldg. 173

**Extraction Date:** 

2/12/99

Ft. Monmouth, NJ 07703

Analysis Date:

2/27/99

Analysis:

EPA Method 608

Location:

CW-2 MWs

Matrix:

Aqueous

D. Wright

Analyst:

Field ID: 0CW2MW31

Ext. Meth:	Sep.	Funne

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1	<b>.</b>	0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1	"	0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	NĎ
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4271.03

DPW, SELFM-PW-EV

Date Rec'd:

2/11/99

Bldg. 173

**Extraction Date:** 

2/12/99

Ft. Monmouth, NJ 07703

Analysis Date:

2/27/99

Analysis:

EPA Method 608

Location:

CW-2 MWs

Matrix: Analyst: Aqueous

Field ID:

0CW2MW32

Ext. Meth:

D. Wright Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1	,	0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1	<del></del>	0.50	0.0009	ND
<b>Toxaphene</b>	1		3.00	0.0273	ND
Arochlor 1016	1.		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochior 1248	1		0.50	0.0500	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

1

ND = Not Detected

Arochlor 1254

Arochier 1260

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

0.50

0.50

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

0.0500

0.0680

ND

ND

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4271.04

DPW, SELFM-PW-EV

Date Rec'd:

2/11/99

Bldg. 173

**Extraction Date:** 

2/12/99

Ft. Monmouth, NJ 07703

Analysis Date:

2/27/99

Analysis:

EPA Method 608

Location:

CW-2 MWs

Matrix: Analyst: Aqueous

0CW2MW33

Ext. Meth:

D. Wright Sep. Funnel Field ID:

Ext. Weth: Sep. Fun					
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND ND
Gamma-chiordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND ;

\* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

Lab ID #: 4272

DPW, SELFM-PW-EV

Sample Prepared: 02/19/99

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

Field ID#: Method Blank

Ft. Monmouth, New Jersey

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	- Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	02/22/99	ND	200	10.0
Antimony	02/22/99	3.96	20	2.0
Arsenic	02/22/99	ND	8	2.0
Barium	02/22/99	2.10	2000	0.5
Beryllium	02/22/99	ND	20	0.5
Cadmium	02/22/99	ND	4	0.5
Calcium	02/22/99	67.0	NLE	20.0
Chromium	02/22/99	ND	100	0.5
Cobalt	02/22/99	0.7	NLE	0.5
Copper	02/22/99	49.0	1000	3.0
Iron	02/22/99	60.0	300	10.0
Lead	02/22/99	ND	10	2.0
Magnesium	02/22/99	93.0	NLE	20.0
Manganese	02/22/99	0.6	50	0.5
Mercury	02/23/99	ND	2	0.1
Nickel	02/22/99	4.0	100	0.5
Potassium	02/22/99	ND	NLE	20.0
Selenium	02/22/99	ND	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	ND	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	ND	NLE	1.0
Zinc	02/22/99	7.00	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

# U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

Lab ID #: 4272.02

DPW, SELFM-PW-EV

Sample Received: 02/11/99

Bldg. 173

Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

Site:

Bldg. 2700

Field ID#: Field Blank

Ft. Monmouth, New Jersey

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	02/22/99	ND	200	10.0
Antimony	02/22/99	ND	20	2.0
Arsenic	02/22/99	ND	8	2.0
Barium	02/22/99	ND	2000	0.5
Beryllium	02/22/99	ND	20	0.5
Cadmium	02/22/99	ND	4	0.5
Calcium	02/22/99	90.4	NLE	20.0
Chromium	02/22/99	ND	100	0.5
Cobalt	02/22/99	ND	NLE	0.5
Copper	02/22/99	26.7	1000	3.0
Iron	02/22/99	16.9	300	10.0
Lead	02/22/99	ND	10	2.0
Magnesium	02/22/99	ND	NLE	20.0
Manganese	02/22/99	1.07	50	0.5
Mercury	02/23/99	0.11	2	0.1
Nickel	02/22/99	2.27	100	0.5
Potassium	02/22/99	ND	NLE	20.0
Selenium	02/22/99	ND	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	90.6	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	ND	NLE	1.0
Zinc	02/22/99	7.69	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV Sar

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4271.01

Sample Received: 02/11/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW30

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	02/22/99	505	200	10.0
Antimony	02/22/99	ND	20	2.0
Arsenic	02/22/99	8.30	8	2.0
Barium	02/22/99	80.4	2000	0.5
Beryllium	02/22/99	ND	20	0.5
Cadmium	02/22/99	0.721	4	0.5
Calcium	02/22/99	66600	NLE	20.0
Chromium	02/22/99	5.85	100	0.5
Cobalt	02/22/99	0.646	NLE	0.5
Copper	02/22/99	9.50	1000	3.0
Iron	02/22/99	11000	300	10.0
Lead	02/22/99	ND	10	2.0
Magnesium	02/22/99	5290	NLE	20.0
Manganese	02/22/99	100.0	50	0.5
Mercury	02/23/99	ND	2	0.1
Nickel	02/22/99	8.79	100	0.5
Potassium	02/22/99	6930	NLE	20.0
Selenium	02/22/99	5.17	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	32400	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	3.76	NLE	1.0
Zinc	02/22/99	16.6	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

\* Higher of POL's and Crown! Water Orallis Gits.

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4271.02

Sample Received: 02/11/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW31

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
_ Aluminum	02/22/99	ND	200	10.0
Antimony	02/22/99	4.22	20	2.0
Arsenic	02/22/99	ND	8	2.0
Barium	02/22/99	273	2000	0.5
Beryllium	02/22/99	ND	20	0.5
Cadmium	02/22/99	1.65	4	0.5
Calcium	02/22/99	56500	NLE	20.0
Chromium	02/22/99	3.40	100	0.5
Cobalt	02/22/99	ND	NLE	0.5
Copper	02/22/99	28.3	1000	3.0
Iron	02/22/99	71900	300	10.0
Lead	02/22/99	ND	10	2.0
Magnesium	02/22/99	6740	NLE	20.0
Manganese	02/22/99	316	50	0.5
Mercury	02/23/99	ND	2	0.1
Nickel	02/22/99	0.595	100	0.5
Potassium	02/22/99	10100	NLE	20.0
Selenium	02/22/99	3.93	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	14600	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	ND	NLE	1.0
Zinc	02/22/99	6.67	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4271.03

Sample Received: 02/11/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW32

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	02/22/99	137	200	10.0
Antimony	02/22/99	3.81	20	2.0
Arsenic	02/22/99	ND-	8	2.0
Barium	02/22/99	42.5	2000	0.5
Beryllium	02/22/99	ND	20	0.5
Cadmium	02/22/99	1.07	4	0.5
Calcium	02/22/99	104000	NLE	20.0
Chromium	02/22/99	3.79	100	0.5
Cobalt	02/22/99	ND	NLE	0.5
Copper	02/22/99	92.7	1000	3.0
Iron	02/22/99	4480	300	10.0
Lead	02/22/99	ND	10	2.0
Magnesium	02/22/99	10100	NLE	20.0
Manganese	02/22/99	7.02	50	0.5
Mercury	02/23/99	ND	2	0.1
Nickel	02/22/99	5.03	100	0.5
Potassium	02/22/99	3670	NLE	20.0
Selenium	02/22/99	5.27	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	35700	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	1.95	NLE	1.0
Zinc	02/22/99	59.4	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4271.04

Sample Received: 02/11/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	02/22/99	67.8	200	10.0
Antimony	02/22/99	2.49	20	2.0
Arsenic	02/22/99	ND	. 8	2.0
Barium	02/22/99	72.9	2000	0.5
Beryllium	02/22/99	ND	20	0.5
Cadmium	02/22/99	1.04	4	0.5
Calcium	02/22/99	32100	NLE	20.0
Chromium	02/22/99	2.40	100	0.5
Cobalt	02/22/99	ND	NLE	0.5
Copper	02/22/99	17.3	1000	3.0
Iron	02/22/99	11300	300	10.0
Lead	02/22/99	ND	10	2.0
Magnesium	02/22/99	6010	NLE	20.0
Manganese	02/22/99	81.2	50	0.5
Mercury	02/23/99	0.13	2	0.1
Nickel	02/22/99	3.15	100	0.5
Potassium	02/22/99	4770	NLE	20.0
Selenium	02/22/99	ND	50	3.0
Silver	02/22/99	ND	20	3.0
Sodium	02/22/99	37000	50000	20.0
Thallium	02/22/99	ND	10	3.0
Vanadium	02/22/99	ND	NLE	1.0
Zinc	02/22/99	11.1	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

	Lab	Hexadeca noic Acid	lron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ugl	Feet	- 7
NJDEP Criteria:	-	NLE	300	50	200	8	10	-	
04/24/97	FMETL	9	9100	69			•	6.45	V,S,P,M
07/10/97	FMETL	ND	12590	73	25	5.0	ND	7.05	V,S,P,M
10/22/97	FMETL	ND	34800	171	175	5.0	5.0	7.60	V,S,P,M
01/08/98	FMETL	ND	2795	5.0	204	ND	4.0	5.20	V,S,P,M
04/07/98	FMETL	ND	3504	39.3	196	5.6	ND	6.56	V,S,P,M
07/14/98	FMETL	ND	10900	57.8	65.7	ND	ND	6.89	V,S,P,M
11/24/98	FMETL	ND	27500	182	ND	11.5	3.15	7.86	V,S,P,M
02/11/99	FMETL	ND	11000	100	505	8.3	ND	7.24	V,S,P,M

SOURCE: 0CW2MW30 Sampling Dates: 04/24/97 - 02/11/99

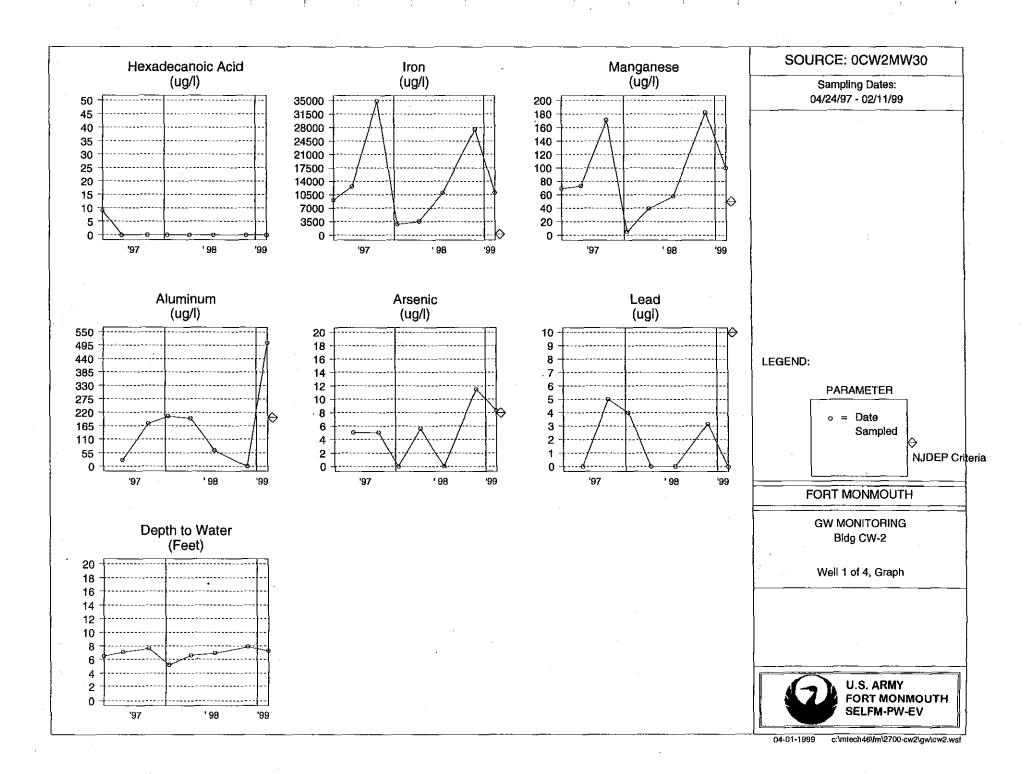
NOTES:

#### FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 1 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water		Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ugl	Feet	<del></del>	<del>                                     </del>
NJDEP Criteria:	-	300	50	200	8	10			
04/24/97	FMETL	59900	277	•	-	-	6.38		V,S,P,M
07/10/97	FMETL	11830	267	ND	1.0	ND	7.00		V,S,P,M
10/22/97	FMETL	52300	243	93	ND	6.0	7.50		V,S,P,M
01/08/98	FMETL	68450	240	129	ND	25	6.30		V,S,P,M
04/07/98	FMETL	115100	266	ND	ND	ND	6.35		V,S,P,M
07/14/98	FMETL	83600	311	390	ND	4.85	6.71		V,S,P,M
11/24/98	FMETL	72800	322	ND	ND	2.33	7.78		V,S,P,M
02/11/99	FMETL	71900	316	ND	ND	ND	7.07		V,S,P,M

SOURCE: 0CW2MW31

Sampling Dates: 04/24/97 - 02/11/99

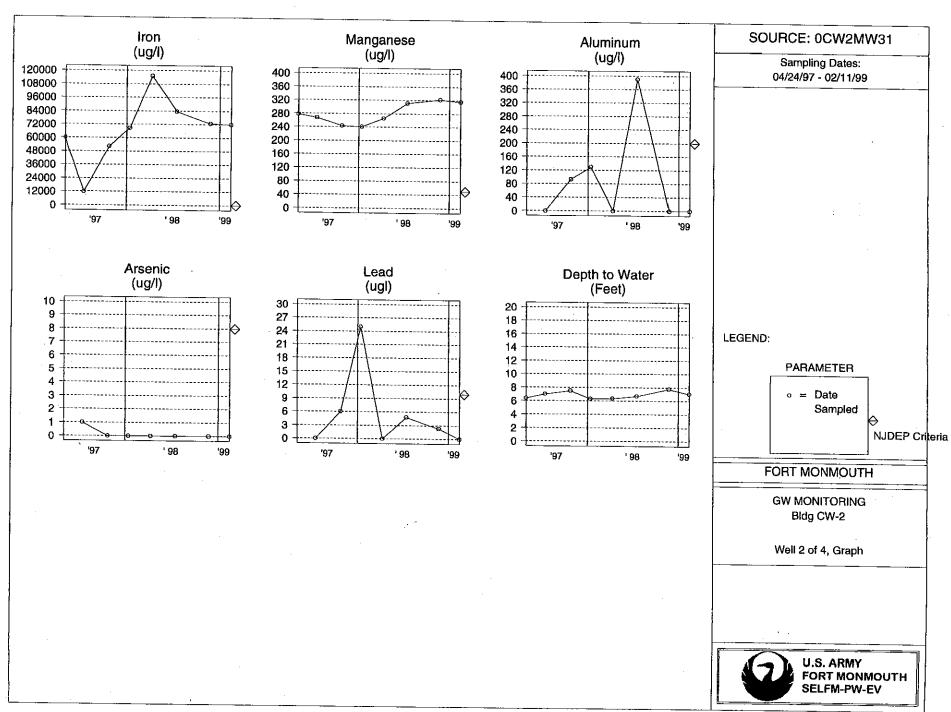
NOTES:

#### FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 2 of 4





	Lab	Hexadeca noic Acid	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ugl	Feet	-
NJDEP Criteria:	-	NLE	300	50	200	8	10	-	-
04/24/97	FMETL	18	18400	125	-	-		6.65	V,S,P,M
07/10/97	FMETL	ND	270	181	595	ND	ND	7.20	V,S,P,M
10/22/97	FMETL	ND	51100	260	297	ND	7.0	7.70	V,S,P,M
01/08/98	FMETL	ND	1484	3.7	163	ND	ND	4.50	V,S,P,M
04/07/98	FMETL	ND	19280	287	ND	ND	ND	6.81	V,S,P,M
07/14/98	FMETL	ND	67500	287	78.1	2.51	3.99	7.06	V,S,P,M
11/24/98	FMETL	ND	106000	342	166	9.32	4.08	7.94	V,S,P,M
02/11/99	FMETL	ND	4480	7.02	137	ND	ND	7.33	V,S,P,M

SOURCE:	0CW2MW32

Sampling Dates: 04/24/97 - 02/11/99

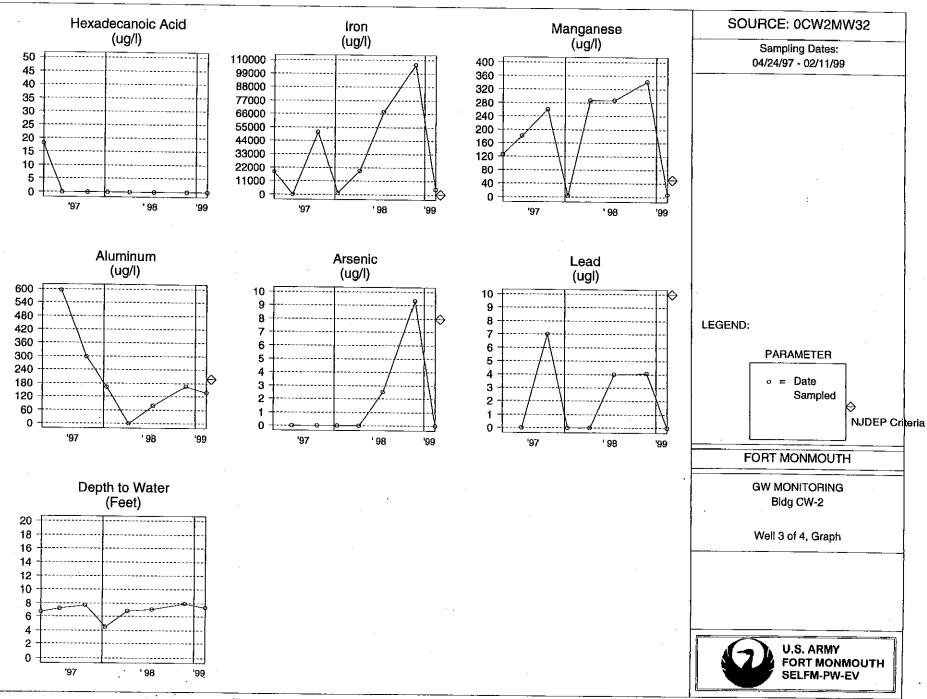
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 3 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:		ug/l	ug/l	ug/l	ug/l	ugl	Feet	
NJDEP Criteria:		300	50	200	8	10		 -
04/24/97	FMETL	88600	424	-	-	-	8.95	V,S,P,M
07/10/97	FMETL	10260	519	2.1	1.0	ND	9.10	V,S,P,M
10/22/97	FMETL	26800	151	94	ND	4.0	9.10	V,S,P,M
01/08/98	FMETL	104700	342	217	6.0	4.0	9.00	V,S,P,M
04/07/98	FMETL	19780	110	119	3.4	ND	9.50	V,S,P,M
07/14/98	FMETL	35900	130	411	ND	4.19	9.09	V,S,P,M
11/24/98	FMETL	25400	87.8	125	ND	ND	9.13	V,S,P,M
02/11/99	FMETL	11300	81.2	67.8	ND	ND	8.13	V,S,P,M

SOURCE: 0CW2MW33

Sampling Dates: 04/24/97 - 02/11/99

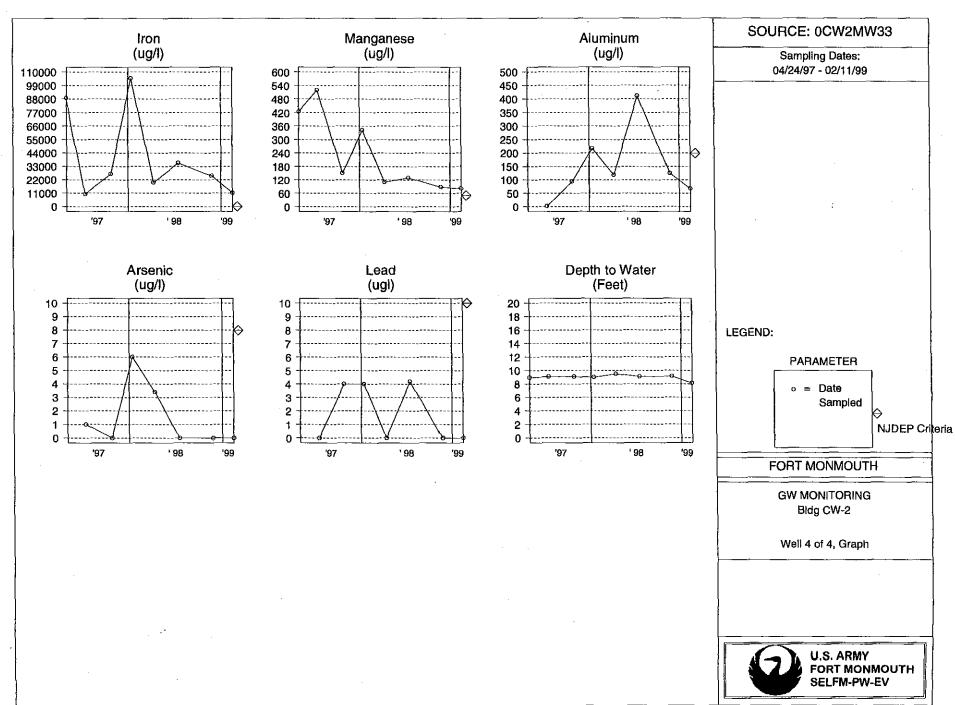
NOTES:

#### FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 4 of 4





# FORT MONMOUTH ENVIRONMENTAL

# **TESTING LABORATORY**

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-6263 WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



### ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

#### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4539.03	0CW2MW30	29-32594	06/09/99
4539.04	0CW2MW31	29-32595	06/09/99
4539.05	0CW2MW32	29-32596	06/09/99
4539.06	0CW2MW33	29-32597	06/09/99

NJDEP Laboratory Certification # 13461

Daniel Wright/Date:

Laboratory Director

### **METHODOLOGY SUMMARY**

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18th ed.
METALS	
	01000
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B

PARAMETER	REFERENCE
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136
ORGANICS	Appendix A
Base/Neutral and Acid	625
Extractables by GC/MS	· .
Purgeable Organics by	624
GC/MS	
Pesticide and PCB by GC	608

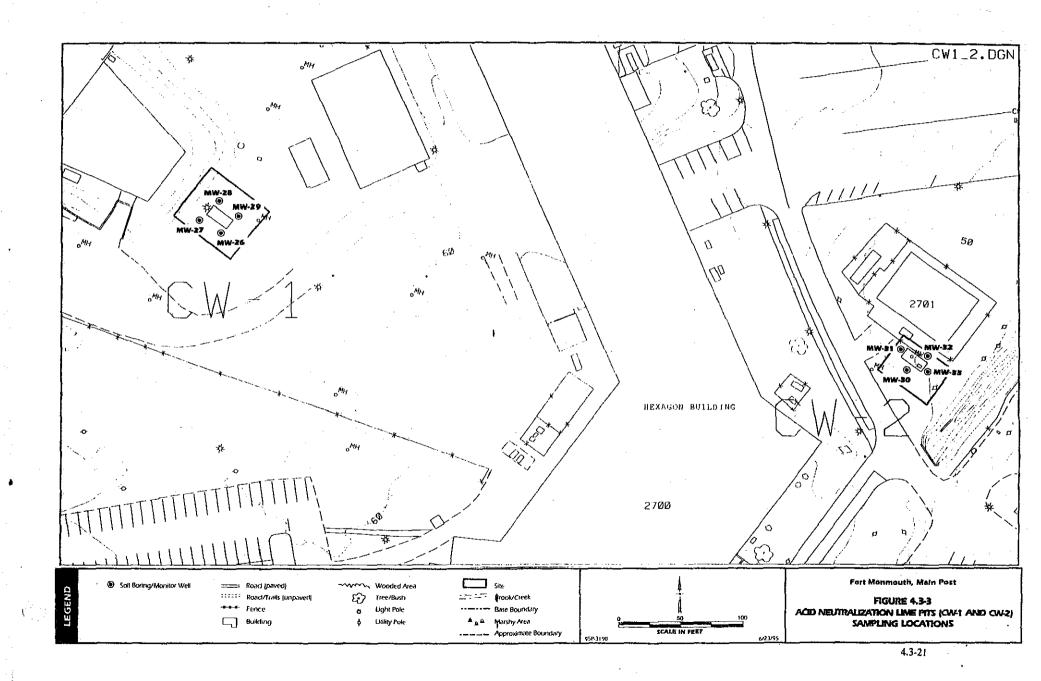


## Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

**Chain of Custody Record** 

Sampler Name / Company ; Core. M. Corm. L. TVS Sample # Sample ID. Sample Location Date Time Type bottles	Customer:	J. 49110W	Project No:		Analysis Parameters Comments					Comments:					
(ADERA ()OMA ()Other:  Samplers Name / Company; Core M. Carm k. TVS  Samplers Name / Company; Core M. Carm k. TVS  Samplers Name / Company; Core M. Carm k. TVS  Samplers Name / Company; Core M. Carm k. TVS  Sample # S. Sample # S. Sample Remarks / Preservation Method  ADERT Time	Phone #: 💫 (	1223	Location:	دسء ه	the wi	ells			8	S				F	1. 1. 1
Color   Trip   C/9/19   O740   AQ 2   V   V   V   V   V   V   V   V   V	(U)DERA ( )OM		<u> </u>	2nd a			7 2	<b>¥</b>	70	47					HCL/HNO3/24°C
Color   Trip   C/9/19   O740   AQ 2   V   V   V   V   V   V   V   V   V	Samplers Name /	Company ; Corey Milo	much TV	s	Sample	#	9	Š	1	7				7	
O2   Field Black   1025   AQ   5   V   V   V   O.0   29-32594		. Sample Location		Time	Туре	bottles		8	Pe	1				7	Remarks / Preservation Method
O3   OCW 2 MW 30   1121   V V V V V V V V V V V V V V V V V V	4539 .0	<del></del>	619199	0740	Aa	2	1								
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Relinquished by (signature):    Date/Time:   Received by (signature):   Date/Time:   Date/Time:   Received by (signature):   Date/Time:   Date/Time:   Received by (signature):   Date/Time:   Da		6 OCW 2 MW33		1031		V	/	/	V	V				0.0	29-32597
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	,		Received by	(signature):		Relin	quished	by (sig	nature):		Date/	Time:	Recei	ved by (	signature):
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# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: 0CW2MW30 NJDEP ID #: 29-32594 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 06/09/99

WEATHER: Sunny, warm.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 57.71 ft

**DEPTH TO WATER: 7.21 ft**DEPTH OF WELL: 17.95 ft
HEIGHT OF WATER: 10.74 ft
(10.74) X .65 X 3 = 20.94

GALLONS OF H2O TO BE PURGED: 21 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC

PURGE RATE: 0.23 GPM Hnu READING: 0.0 PPM

PURGE START TIME: 09:50

pH: 6.51 su

TEMP: 13.7 °C

DISSOLVED 02: 8.17 PPM

SPECIFIC CONDUCTIVITY: 615 us/cm

PURGE END TIME: 11:21

pH: 6.54 su

TEMP: 13.1 °C

DISSOLVED 02: 5.10 PPM

SPECIFIC CONDUCTIVITY: 614 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.02 ft

(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 21 gal

pH: 6.53 su

TEMP: 13.1 °C

DISSOLVED 02: 5.07 PPM

SPECIFIC CONDUCTIVITY: 613 us/cm

COMMENTS: Dup here.

### U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: 0CW2MW31 NJDEP ID #: 29-32595 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 06/09/99

WEATHER: Sunny, warm.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 51.58 ft

**DEPTH TO WATER: 7.15 ft**DEPTH OF WELL: 16.90 ft
HEIGHT OF WATER: 9.75 ft
(9.75) X .65 X 3 = 19.01

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC

PURGE RATE: 0.23 GPM Hnu READING: 0.0 PPM

PURGE START TIME: 09:45

pH: 6.50 su

TEMP: 13.7 °C

DISSOLVED 02: 8.31 PPM

SPECIFIC CONDUCTIVITY: 548 us/cm

PURGE END TIME: 11:07

pH: 6.50 su

TEMP: 13.2 °C

DISSOLVED 02: 5.32 PPM

SPECIFIC CONDUCTIVITY: 549 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.41 ft

(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 19 gal

pH: 6.51 su

TEMP: 13.2 °C

DISSOLVED 02: 5.27 PPM

SPECIFIC CONDUCTIVITY: 547 us/cm

COMMENTS: Orange tinge w/particles.

### U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: 0CW2MW32 NJDEP ID #: 29-32596 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 06/09/99

WEATHER: Sunny, warm.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 51.38 ft

**DEPTH TO WATER: 7.49 ft**DEPTH OF WELL: 16.89 ft
HEIGHT OF WATER: 9.40 ft
(9.40) X .65 X 3 = 18.33

GALLONS OF H2O TO BE PURGED: 18 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC

PURGE RATE: 0.23 GPM Hnu READING: 0.0 PPM

PURGE START TIME: 09:35

pH: 6.14 su

TEMP: 13.9 °C

DISSOLVED 02: 8.44 PPM

SPECIFIC CONDUCTIVITY: 589 us/cm

PURGE END TIME: 10:53

pH: 6.16 su

TEMP: 13.3 °C

DISSOLVED O2: 5.55 PPM

SPECIFIC CONDUCTIVITY: 589 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 11.76 ft

(SAMPLING METHOD: DEDICATED( LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 18 gal

pH: 6.15 su

TEMP: 13.1 °C

DISSOLVED 02: 5.51 PPM

SPECIFIC CONDUCTIVITY: 587 us/cm

COMMENTS: Slight Orange tinge.

# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: 0CW2MW33 NJDEP ID #: 29-32597 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 06/09/99

WEATHER: Sunny, warm.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 51.09 ft

**DEPTH TO WATER: 9.13 ft**DEPTH OF WELL: 16.10 ft
HEIGHT OF WATER: 6.97 ft
(6.97) X .65 X 3 = 13.59

GALLONS OF H2O TO BE PURGED: 14 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC

PURGE RATE: 0.23 GPM Hnu READING: 0.0 PPM

PURGE START TIME: 09:30

pH: 6.21 su

TEMP: 13.9 °C

DISSOLVED 02: 8.13 PPM

SPECIFIC CONDUCTIVITY: 707 us/cm

PURGE END TIME: 10:31

pH: 6,17 su

TEMP: 13.3 °C

DISSOLVED 02: 5.17 PPM

SPECIFIC CONDUCTIVITY: 710 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.43 ft

(SAMPLING METHOD: DEDICATED(LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

pH: 6.15 su

TEMP: 13.2 °C

DISSOLVED 02: 5.11 PPM

SPECIFIC CONDUCTIVITY: 709 us/cm

COMMENTS: Orange tinge w/particles.

## US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEPE # 13461

#### **Definition of Qualifiers**

MDL: Method Detection Limit

: Compound identified below detection limit

**B** : Compound in both sample and blank

D : Results from dilution of sample

U : Compound searched for but not detected

Data File

VA006672.D

Deinhardt Operator

Sample Name Field ID

Vblk195 Vblk195

Date Acquired 15 Jun 1999 9:48 am

Sample Multiplie  ${\bf 1}$ 

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol		-	not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nie	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide		·	not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	i
75-35-3	1,1-Dichloroethane	_		not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ng/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1 1	0.23 ug/L	
107-06-2	1,2-Dichloroethane	-		not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	.3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
<u>591-78-6</u>	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID
----------

Lab Name: FME	TL	Project LTM	Vblk195
NJDEP # 1346	61 Case No.: 4539	Location CW2 SD	G No.:
Matrix: (soil/water)	WATER	Lab Sample ID: V	/blk195
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID: _V	/A006672.D
Level: (low/med)	LOW	Date Received: 6	/9/99
% Moisture: not de	ec	Date Analyzed: 6	/15/99
GC Column: RT	X-502 ID: 0.25 (mm)	Dilution Factor: 1	.0
Soil Extract Volum	e: (uL)	Soil Aliquot Volum	e: (uL)
Number TICs foun	(u	ONCENTRATION UNITS: g/L or ug/Kg) UG/L	
CAS NO.	COMPOUND NAME	RT EST.	. CONC. Q

Data File Operator VA006690.D

Deinhardt

Sample Name Field ID 4539.01 Trip Blank

Date Acquired

15 Jun 1999 8:30 pm

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride	l.		not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	· · · · · · ·
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
, , , , , ,	cis-1,2-Dichloroethene			not detected	10	0.02 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene		<del></del>	not detected	1 1	0.23 ug/L	
107-06-2	1.2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1 1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene		····· -	not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene		<del></del>	not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.02 ug/L 0.56 ug/L	
75-25-2	Bromoform	- 1		not detected		0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.70 ug/L 0.47 ug/L	<del></del>
541-73-1	1,3-Dichlorobenzene			not detected	600	0.47 ug/L 0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected		0.55 ug/L	
95-50-1	1,2-Dichlorobenzene				75		
3J-JU-1	1,2-Dichiorobenzene			not detected	600	0.64 ug/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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Lab Name:	FMETL		Project	LTM		Trip B	lank
NJDEP#	13461	Case No.: 4	539 Locat	ion CV	/2 S	DG No.:	
Matrix: (soil/	water)	WATER	L	ab Sam	ple ID:	4539.01	
Sample wt/ve	ol:	5.0 (g/ml) <u>N</u>	<u>ИL</u> L	ab File	ID:	VA006690.I	)
Level: (low/r	med)	LOW	Ε	Date Red	eived:	6/9/99	
% Moisture:	not dec.		r	Date Ana	ılyzed:	6/15/99	
GC Column:	RTX-	502 ID: <u>0.25</u> (mm	ı) [	Dilution F	actor:	1.0	
Soil Extract \	Volume:	(uL)		Soil Aliqu	ot Volu	me:	(uL)
Number TICs	s found:	1	CONCENTR (ug/L or ug/K		JNITS: JG/L	· 	
CAS NO.		COMPOUND NAME		RT	ES	T. CONC.	Q
1. 00011	0-54-3	Hexane		10.0	3	6	JN

Data File

VA006691.D

Operator Date Acquired

Deinhardt

15 Jun 1999 9:04 pm

Sample Name

4539.02

Field ID

Field Blank Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifier
107028	Acrolein			not detected	50	1.85 ug/L	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
107131	Acrylonitrile			not detected	50	2.78 ug/L	<u> </u>
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nie	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	<u> </u>
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	· · · · · ·
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane		•	not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene		W's and Ground W	not detected	600	0.64 ug/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

#### **VOLATILE ORGANICS ANALYSIS DATA SHEET** TENTATIVELY IDENTIFIED CO

MPOU	NDS	
ject <u>l</u>	LTM	Field Blank
ocation	CW2	SDG No.:

FIELD ID

Lab Name: **FMETL** NJDEP# 13461 Case No.: 4539 Matrix: (soil/water) WATER Lab Sample ID: 4539.02 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA006691.D Level: (low/med) LOW Date Received: 6/9/99 % Moisture: not dec. Date Analyzed: 6/15/99 GC Column: RTX-502 ID: 0.25 Dilution Factor: 1.0 Soil Extract Volume: Soil Aliquot Volume: (uL)

**CONCENTRATION UNITS:** 

(ug/L or ug/Kg) UG/L

Number TICs found:

		· · · · ·		
CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	10.03	7	JN

Data File

VA006692.D

Sample Name 4539.03

OCW2MW30

Operator

Deinhardt

Field ID

Date Acquired 15 Jun 1999 9:39 pm

Sample Multiplie 1

CAS#	S# Compound Name R.T. Response Result		Result	Regulatory Level (ug/l)*	MDL	Qualifier	
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile		-	not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	<u> </u>
74-83-9	Bromomethane			not detected	10_	1.10 ug/L	
75-00-3	Chloroethane			not detected	nie	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	7.87	32242	8.09 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	·		not detected	6	0.30 ug/L	
75-55-6	1.1.1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	T
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane	****	,	not detected	1	0.40 ug/L	· · · · · · · · · · · · · · · · · · ·
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether		-	not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene		• •	not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene		7	not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	<del></del>

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established R.T. = Retention Time

#### **VOLATILE ORGANICS ANALYSIS DATA SHEET** TENTATIVELY IDENTIFIED COMPOUND

os		0014/01414/00	
M		0CW2MW30	
CW2	SDC	G No.:	
mple	- ID- 44	E20 02	

FIELD ID

Lad Name.	FIVIETE			Project LTW	_	
NJDEP#	13461	Cas	e No.: <u>4539</u>	Location CW2 S	SDG No.:	
Matrix: (soil/v	vater)	WATER		Lab Sample ID:	4539.03	
Sample wt/vo	ol:	5.0	(g/ml) ML	_ Lab File ID:	VA006692.D	
Levei: (low/n	ned)	LOW		Date Received:	6/9/99	
% Moisture: r	not dec.			Date Analyzed:	6/15/99	
GC Column:	RTX-5	02 ID: 0.2	5 (mm)	Dilution Factor:	1.0	
Soil Extract V	olume:		_ (uL)	Soil Aliquot Volu	ıme:	(uL)

#### **CONCENTRATION UNITS:**

(ug/L or ug/Kg) UG/L

Number TICs found:

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000110-54-3	Hexane	10.00	7	JN

Data File

VA006693.D

Deinhardt

Sample Name

Field ID

4539.04 OCW2MW31

Operator Date Acquired

15 Jun 1999 10:13 pm

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein	·		not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nie	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle .	1.68 ug/L	
74-87-3	Chloromethane		<u> </u>	not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane		į	not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	<u> </u>
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55 <b>-</b> 6	1.1.1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1 1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1 1	0.13 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.40 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone	•	<del></del>	not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	<del> </del>
75-25-2	Bromoform	-		not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane		* , , , ,	not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene	i		not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

#### · 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Project	. 1	LTM		OCW2M	W31
NJDEP#	13461	Cas	e No.: 4539	_ Locat	tion	CW2	_ s	DG No.:	
Matrix: (soil/v	vater)	WATER		!	Lab	Sample	ID:	4539.04	
Sample wt/vo	ol:	5.0	(g/ml) ML		Lab	File ID:		VA006693.D	
Level: (low/n	ned)	LOW		ı	Date	Receiv	ed:	6/9/99	<u> </u>
% Moisture: r	not dec.			. 1	Date	Analyz	ed:	6/15/99	
GC Column:	RTX-5	02 ID: <u>0.2</u>	5_ (mm)	E	Dilut	ion Fac	tor:	1.0	
Soil Extract V	olume:		_ (uL)		Soil.	Aliquot	Volu	me:	(uL)
			co	NCENTR	ATIO	ואט אכ	TS:		
Number TICs	found:	0	(ug. 	/L or ug/K	(g)	UG/	L		
CAS NO.		COMPOU	ND NAME			RT	ES	T. CONC.	Q

Data File

VA006694.D

Sample Name 4539.05

Operator

Deinhardt

Field ID OCW2MW32

Date Acquired

15 Jun 1999 10:48 pm

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein	<u> </u>	<u></u>	not detected	50_	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane	L		not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	İ
75-35-3	1,1-Dichloroethane	****		not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene		••••	not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1.1.1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride		· · · · · · · · · · · · · · · · · · ·	not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1 1	0.23 ug/L	
107-06-2	1.2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nie	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	<u>-</u>
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	· · · · · · · · · · · · · · · · · · ·
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone		4-7-1	not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane	<del></del>	<del></del>	not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
	m+p-Xylenes			not detected	nle	1.14 ug/L	· · · · · · · · · · · · · · · · · · ·
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected		0.56 ug/L	
75-25-2	Bromoform				100		
	1,1,2,2-Tetrachloroethane	<del>   </del>		not detected	4	0.70 ug/L	
541-73-1	1,3-Dichlorobenzene		······································	not detected	2	0.47 ug/L	
	1,5-DICHIOLOUGHZCHE			not detected	600	0.55 ug/L	
	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID

EST. CONC.

RT

		TENTATI	VELY IDENTIFI	ED COMPC	OUNDS		
Lab Name:	FMETL			Project	LTM	0CW2MW	32
NJDEP#	13461	Cas	se No.: 4539	Locatio	on CW2 S	 SDG No.:	
Matrix: (soil/	water)	WATER		La	ab Sample ID:	4539.05	
Sample wt/vo	ol:	5.0	(g/ml) ML	· La	ab File ID:	VA006694.D	
Level: (low/r	ned)	LOW		Da	ate Received:	6/9/99	_
% Moisture:	not dec.			Da	ate Analyzed:	6/15/99	_
GC Column:	RTX-5	02 ID: 0.2	5 (mm)	Di	ilution Factor:	1.0	
Soil Extract \	/olume:		_ (uL)	Sc	oil Aliquot Volu	ıme:	_ (uL) _
			C	ONCENTRA	TION UNITS:		
Number TICs	s found:	0	_ (u	g/L or ug/Kg	) <u>UG/L</u>		
·			100				

COMPOUND NAME

CAS NO.

Data File

VA006695.D

Operator Deinhardt

Sample Name Field ID

4539.06 OCW2MW33

Date Acquired 15 Jun 1999 11:22 pm

Sample Multiplie  ${\bf 1}$ 

CAS#	Compound Name	Compound Name R.T.		ame R.T. Response		Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L			
107131	Acrylonitrile			not detected	50	2.78 ug/L			
75650	tert-Butyl alcohol	ļ		not detected	nle	8.52 ug/L			
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L			
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L			
	Dichlorodifluoromethane	<u> </u>		not detected	nle	1.68 ug/L			
74-87-3	Chloromethane			not detected	30	1.16 ug/L			
75-01-4	Vinyl Chloride		,	not detected	5	1.06 ug/L			
74-83-9	Bromomethane			not detected	10	1.10 ug/L			
75-00-3	Chloroethane			not detected	nle	1.01 ug/L			
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L			
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L			
67-64-1	Acetone			not detected	700	1.36 ug/L			
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L			
75-09-2	Methylene Chloride		·	not detected	2	0.24 ug/L			
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L			
75-35-3	1.1-Dichloroethane	<del> </del>		not detected	70	0.12 ug/L			
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L			
78-93-3	2-Butanone			not detected	300	0.62 ug/L			
	cis-1,2-Dichloroethene		•	not detected	10	0.17 ug/L			
67-66-3	Chloroform		-	not detected	6	0.30 ug/L			
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L			
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L			
71-43-2	Benzene			not detected	1	0.23 ug/L			
107-06-2	1,2-Dichloroethane		··· · · · · · · · · · · · · · · · · ·	not detected	2	0.23 ug/L			
79-01-6	Trichloroethene			not detected	1	0.18 ug/L			
78-87-5	1,2-Dichloropropane			not detected	1	0.23 ug/L 0.40 ug/L			
75-27-4	Bromodichloromethane			not detected	1	0.40 ug/L 0.55 ug/L	<del></del>		
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	<u> </u>		
10061-01-5	cis-1,3-Dichloropropene		<del></del>	not detected	nie	0.69 ug/L			
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L			
108-88-3	Toluene		<u></u>	not detected	1000	0.37 ug/L			
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L			
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L			
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L			
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L			
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L			
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L			
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L			
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L			
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L			
100-42-5	Styrene			not detected	100	0.56 ug/L			
75-25-2	Bromoform			not detected	4	0.70 ug/L			
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L			
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L			
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L			
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L			

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD	D
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Lab Name:	FMETL			Project	LTM		0CW2N	IW33
NJDEP#	13461	Cas	e No.: <u>4539</u>	_ Location	CW2	SE	G No.:	
Matrix: (soil/	water)	WATER		Lab	Sample	D:	4539.06	
Sample wt/v	oi:	<u>5.0</u>	(g/ml) ML	Lab	File ID:		VA006695.E	)
Level: (low/r	med)	LOW		Dat	e Receiv	∕ed: ੁ	6/9/99	
% Moisture:	not dec.			Dat	e Analyz	zed:	6/15/99	
GC Column:	RTX-	502 ID: 0.2	5 (mm)	Dilu	ition Fac	tor:	1.0	
Soil Extract \	Volume:		(uL)	Soi	l Aliquot	Volun	ne:	(uL)
			CC	NCENTRAT	ION UNI	TS:		
Number TICs	s found:	1	(นดู	g/L or ug/Kg)	<u>UG</u>	/L		·
CAS NO.		COMPOUN	ID NAME		RT	EST	T. CONC.	Q
1 00011	D.E4.2	Hoveno			10.00		0	IN

Data File Operator

VA006696.D

Deinhardt

Date Acquired 15 Jun 1999 11:56 pm

Sample Name

4539.07

Field ID

Dupe

Sample Multiplie  ${f 1}$ 

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile	Ì		not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	ļ
1634044	Methyl-tert-Butyl ether			not detected	πle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	· · · · · ·
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	<b></b>
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	· · · · · · · · · · · · · · · · · · ·
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1.1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	<u> </u>
75-55-6	1.1.1-Trichloroethane			not detected	30	0.23 ug/L	<del></del> -
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1 1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene	,	* -	not detected	1000	0.37 ug/L	_
10061-02-6	trans-1,3-Dichloropropene		•	not detected	nle	0.87 ug/L	
79-00-5	1.1.2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane	İ		not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes	t	-	not detected	πle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene		-	not detected	100	0.56 ug/L	
75-25-2	Bromeform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected		0.70 ug/L 0.47 ug/L	
541-73-1	1,3-Dichlorobenzene				2	0.47 ug/L 0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected not detected	600	0.55 ug/L 0.57 ug/L	
<u> </u>	TOTAL PRODUCTION OF THE CITY			TOT GETECTED	75	U.J/ US/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

#### **VOLATILE ORGANICS ANALYSIS DATA SHEET** TENTATIVELY IDENTIFIED COMPOUNDS

ĒΤ	FIELD ID	
	Dupe	
2_ S	DG No.:	
ple ID:	4539.07	T
D:	VA006696.D	_
eived:	6/9/99	
lyzed:	6/15/99	
actor:	1.0	
ot Volu	me:	(uL)
·2TIM		

Lab Name:	FMETL			Project	_	LTM		_	
NJDEP#	13461	Cas	e No.: 4539	Location	on	CW2	_ s	DG No.:	
Matrix: (soil/v	water)	WATER		L	ab	Sample	ID:	4539.07	
Sample wt/vo	ol:	5.0	(g/ml) ML	L	ab	File ID:		VA006696.D	<u> </u>
Level: (low/n	ned)	LOW		D	ate	Receiv	ed:	6/9/99	
% Moisture: r	not dec.		•	D	ate	Analyz	ed:	6/15/99	
GC Column:	RTX-5	02 ID: 0.2	5 (mm)	D	ilut	ion Fac	tor:	1.0	
Soil Extract V	/olume:		_ (uL)	S	oil .	Aliquot '	Volu	me:	(uL)
Number TICs	s found:	0		CONCENTRA (ug/L or ug/Kg		ON UNI UG/			
Trainber 1103	, louita.		_					1	
CAS NO.		COMPOU	ND NAME			RT	ES	T. CONC.	Q

#### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

#### **NJDEP Certification #13461**

Data File Name BNA02740.D

Date Acquired

Operator

Bhaskar 11-Jun-99 Sample Name

Sblk263

Misc Info

Sblk263 A 990610

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	O1100
110-86-1	Pyridine		Response	not detected	NLE	5.00 u	Qualifie
62-75-9	N-nitroso-dimethylamine		,	not detected	20	0.94 u	
62-53-3	Aniline		<u> </u>	not detected	NLE	0.15 u	
108-95-2	Phenol			not detected	4000		g/L
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 u	· · · · · · · · · · · · · · · · · · ·
95-57-8	2-Chlorophenol	-		not detected	40	0.48 u	
541-73-1	1,3-Dichlorobenzene	<del>-  </del>		not detected	600	0.15 u	
106-46-7	1.4-Dichlorobenzene				75		
100-40-7	Benzyl alcohol	8.40	87727	not detected 1.52 ug/L	-	0.23 u	
95-50-1		8.40	6/12/		NLE	0.18 u	
	1,2-Dichlorobenzene			not detected	600	0.16 u	
95-48-7 108-60-1	2-Methylphenol			not detected	NLE	0.14 u	
106-44-5	bis(2-chloroisopropyl)ether	+		not detected	300		g/L
	4-Methylphenol	+ -		not detected	NLE		g/L
621-64-7 67-72-1	n-Nitroso-di-n-propylamine	+		not detected	20		e/L
	Hexachloroethane	<del> </del>		not detected	10		<u>/L  </u>
98-95-3	Nitrobenzene	1 - 1		not detected	10	0.46 կ	
78-59-1	Isophorone	<del>                                     </del>	·	not detected	100		z/L
88-75-5	2-Nitrophenol	<del>  </del>	······································	not detected	NLE		z/L
105-67-9	2,4-Dimethylphenol	<del>  </del>		not detected	100		z/L
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 us	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 us	z/L
65-85-0	Benzoic Acid	-	<del></del>	not detected	NLE	0.26 us	
120-82-1	1,2,4-Trichlorobenzene	1 1		not detected	9	0.25 บร	
91-20-3	Naphthalene	<del>                                     </del>		not detected	NLE	0.25 ug	2/L
106-47-8	4-Chloroaniline			not detected	NLE	0.19 սչ	z/L
87-68-3	Hexachlorobutadiene	-		not detected	1	0.38 ug	
59-50-7	4-Chloro-3-methylphenol		<del></del>	not detected	NLE	<u>0.</u> 18 ug	<u>/L</u>
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16 սջ	
77-47-4	Hexachlorocyclopentadiene	<del>  </del>		not detected	50	1.50 ug	
88-06-2	2,4,6-Trichlorophenol	<del>  </del>		not detected	20	0.42 ug	
95-95-4	2,4,5-Trichlorophenol	1		not detected	700	0.31 ug	/L
91 <b>-</b> 58-7	2-Chloronaphthalene			not detected	NLE	0.32 ևջ	:/L
88-74-4	2-Nitroaniline	<del>                                     </del>		not detected	NLE	0.21 ug	;/L
131-11 <b>-</b> 3	Dimethylphthalate		<del></del>	not detected	7000	0.18 ug	/L
208-96-8	Acenaphthylene	+		not detected	NLE	0.19 ug	<u>/L</u>
606-20-2	2,6-Dinitrotoluene	<del>  </del>		not detected	NLE	0.31 ug	<u>/L  </u>
99-09-2	3-Nitroaniline	<del>  </del>		not detected	NLE	0.26 կջ	<u>/L</u>
83-32-9	Acenaphthene	<del>  </del>		not detected	400	0.26 ug	/L
51-28-5	2,4-Dinitrophenol	+		not detected	40	0.69 ug	/L
132-64-9	Dibenzofuran	<del>                                     </del>		not detected	NLE	0.32 կջ	/L
100-02-7	4-Nitrophenol	I I		not detected	NLE	0.27 ug	л I

#### Semi-Volatile Analysis Report Page 2

Data File Name BNA02740.D

Date Acquired

Operator

Bhaskar

11-Jun-99

Sample Name

Sblk263

Misc Info

Sblk263 A 990610

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10		ug/L	Quantiers
84-66-2	Diethylphthalate			not detected	5000	<u> </u>	ug/L	
86-73-7	Fluorene			not detected	300		ug/L	<u> </u>
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE		ug/L	-
100-01-6	4-Nitroaniline			not detected	NLE		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE		ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20		ug/L	
103-33-3	Azobenzene			not detected	NLE		ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE		ug/L	
118-74-1	Hexachlorobenzene			not detected	10		ug/L	
87-86-5	Pentachlorophenol			not detected	1		ug/L	
85-01-8	Phenanthrene			not detected	NLE		ug/L	
120-12-7	Anthracene			not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	-	ug/L	:
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50		ug/L	
129-00-0	Pyrene			not detected	200	0.32		
85-68-7	Butylbenzylphthalate			not detected	100	0.47		
56-55-3	Benzo[a]anthracene			not detected	10	0.22		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46		
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene	<u></u>		not detected	10	0.37		
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32		
50-32-8	Benzo[a]pyrene			not detected	20	0.31		
193-39-5	Indeno[1,2,3-cd]pyrene		,	not detected	20	0.79		
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40		

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

1F

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

		TENTAT	4			
Lab Name:	FMETL		•	L	ab Code 13461	Sblk263
Project	LTM	Ca	se No.: <u>4539</u>		Location CW2 S	DG No.:
Matrix: (soil/v	vater)	WATER	_		Lab Sample ID:	Sblk263
Sample wt/vo	ol:	1000	(g/ml) ML		Lab File ID:	BNA02740.D
Level: (low/n	ned)	LOW	_		Date Received:	6/9/99
% Moisture:		dec	anted: (Y/N)	N	Date Extracted:	6/10/99
Concentrated	Extract	Volume: _1	1000 (uL)		Date Analyzed:	6/11/99
njection Volu	ıme: <u>1.0</u>	) (uL)			Dilution Factor:	1.0
GPC Cleanup	p: <b>(Y/N)</b>	N	pH: <u>7</u>			
				C	ONCENTRATION UNI	TO.

FIELD ID

Transce Tros loans.		(ug/L O	ug/itg)	OG/L		
				-		
CAS NUMBER	COMPOUND NAME		RT	EST. CONC.	Q	

#### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory

**NJDEP Certification #13461** 

Date Acquired

Operator

Data File Name BNA02746.D

Bhaskar 12-Jun-99 Sample Name

4539.02

Misc Info

Field Blank

Sample Multiplier

					Regulatory Level			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL		Qualifiers
110-86-1	Pyridine	<u> </u>		not detected	NLE	5.00	ug/L	
62-75-9	N-nitroso-dimethylamine	ļ		not detected	20	0.94	ug/L	<u> </u>
62-53-3	Aniline			not detected	NLE	0.15	ug/L	
108-95-2	Phenol			not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether	ļ <u> </u>		not detected	10	0.48	ug/L	
95-57-8	· 2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59-1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 1	ug/L	-
87-68-3	Hexachlorobutadiene			not detected	1	0.38	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18 ι	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16		
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.50 t	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 เ		
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.31		
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 ι		
88-74-4	2-Nitroaniline			not detected	NLE	0.21 ι		
131-11-3	Dimethylphthalate			not detected	7000	0.18 ι		
208-96-8	Acenaphthylene			not detected	NLE	0.19 t	_	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 t		
99-09-2	3-Nitroaniline			not detected	NLE	0.26 u		<del></del>
83-32-9	Acenaphthene			not detected	400	0.26 u		
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 0		
132-64-9	Dibenzofuran			not detected	NLE	0.32 u		
100-02-7	4-Nitrophenol			not detected	NLE	0.27 r		

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA02746.D

Operator Date Acquired 12-Jun-99

Bhaskar

Sample Name

4539.02

Misc Info

Field Blank

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000	0.82	ug/L	
86-73-7	Fluorene	1 1		not detected	300	0.29	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline		•	not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE		ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41	ug/L	
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	200	0.32	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	0.47		
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene	1		not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene	-		not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene	<u> </u>		not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

Page 2 of 2

#### 1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		Lab Co	de 13461		Field B	lank
Project	LTM	Case No.: 4539	Loca	ation CW2	SI	DG No.:	
Matrix: (soil/	water)	WATER		Lab Samp	le ID:	4539.02	
. Sample wt/vo	ol:	1000 (g/ml) ML	•	Lab File ID	):	BNA02746.D	<u> </u>
Level: (low/r	ned)	LOW		Date Rece	ived:	6/9/99	
% Moisture:		decanted: (Y/N) _	N_	Date Extra	cted:	6/10/99	
Concentrated	d Extract	Volume: 1000 (uL)		Date Analy	zed:	6/12/99	
Injection Volu	ume: 1.0	<u>) (uL)</u>		Dilution Fa	ctor:	1.0	
GPC Cleanu	p: (Y/N)	NpH: <u>7</u>		÷			
Number TICs	s found:	0	CONCE	NTRATION ug/Kg)	N UNIT		
CAS NUME	BER	COMPOUND NAME		RT	ES	T. CONC.	Q

#### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

#### NJDEP Certification #13461

Data File Name BNA02747.D

Date Acquired

Sample Name

4539.03

Operator

Bhaskar 12-Jun-99 Misc Info

0CW2MW30

Sample Multiplier

					Regulatory Level (ug/L)*			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL		<u>Qualifiers</u>
110-86-1	Pyridine	-		not detected	NLE	5.00	***************************************	
62-75-9	N-nitroso-dimethylamine	<u> </u>		not detected	20	0.94		
62-53-3	Aniline	<u>,                                     </u>	- :	not detected	NLE	0.15		
108-95-2	Phenol	ļ		not detected	4000	0.47	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48	ug/L	
95 <del>-</del> 57-8	2-Chlorophenol			not detected	40	0.18	ug/L	
541-73-1	1,3-Dichlorobenzene	_		not detected	600	0.15	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23	ug/L	
100-51-6	Benzyl alcohol	_		not detected	NLE	0.18	ug/L	
95-50-1	1,2-Dichlorobenzene		-	not detected	600	0.16	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.14	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.61	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.14	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.33	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.46	ug/L	
78-59 <b>-</b> 1	Isophorone			not detected	100	0.35	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.23	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.25	ug/L	
106-47-8	4-Chloroaniline		•	not detected	NLE	0.19	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38 1	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18		
91-57-6	2-Methylnaphthalene		-	not detected	NLE	0.16	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1. <u>5</u> 0 t	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42 1	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.31		
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32		
88-74-4	2-Nitroaniline			not detected	NLE	0.21		
131-11-3	Dimethylphthalate			not detected	7000	0.18 1		
208-96-8	Acenaphthylene			not detected	NLE	0.19 ւ		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31		
99-09-2	3-Nitroaniline	T		not detected	NLE	0.26		
83-32-9	Acenaphthene	1		not detected	400	0.26		
51-28-5	2,4-Dinitrophenol	1		not detected	40	0.69		
132-64-9		<del>-</del>		nor delected				
	Dibenzofuran	1 1		not detected	NLE	0.32	no∕r I	

#### Semi-Volatile Analysis Report Page 2

Data File Name BNA02747.D

Date Acquired

Operator

Bhaskar 12-Jun-99 Sample Name

4539.03

Misc Info

0CW2MW30

1

Sample Multiplier

G A G A			_		Regulatory Level (ug/L)*				
CAS#	Name	R.T. Response Result				MDL		Qualifiers	
121-14-2	2,4-Dinitrotoluene			not detected	10		ug/L		
84-66-2	Diethylphthalate		<del> </del>	not detected	5000		ug/L		
86-73-7	Fluorene			not detected	300		ug/L	<u> </u>	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	<u> </u>	
100-01-6	4-Nitroaniline	_		not detected	NLE		ug/L		
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	0.44	ug/L		
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L		
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L		
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L		
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L		
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L		
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L		
120-12-7	Anthracene			not detected	2000	0.19	ug/L		
84-74-2	Di-n-butylphthalate			not detected	900	0.23			
206-44-0	Fluoranthene			not detected	300	0.41			
92-87 <b>-</b> 5	Benzidine			not detected	50	1.45	ug/L		
129-00-0	Pyrene			not detected	200	0.32		· · · · · · · · · · · · · · · · · · ·	
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L		
56-55-3	Benzo[a]anthracene			not detected	10	0.22			
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46			
218-01-9	Chrysene			not detected	20	0.20			
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51			
117-84-0	Di-n-octylphthalate			not detected	100	0.82			
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37			
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32		-	
50-32-8	Benzo[a]pyrene			not detected	20	0.31			
193-39-5	Indeno[1,2,3-cd]pyrene	T 1		not detected	20	0.79			
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28			
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40			

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

Page 2 of 2

#### 1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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Lab Name:	ab Name: FMETL			ab Code 1346	0CW2M	W30	
Project	LTM	Case No.: 4539		Location CW	/2 S	DG No.:	
Matrix: (soil/	water)	WATER		Lab Sam	ple ID:	4539.03	
Sample wt/ve	ol:	1000 (g/ml) ML		Lab File I	D:	BNA02747.D	) .
Level: (low/r	med)	LOW		Date Red	eived:	6/9/99	
% Moisture:		decanted: (Y/N)	N	Date Exti	acted:	6/10/99	
Concentrate	d Extract	Volume: 1000 (uL)		Date Ana	lyzed:	6/12/99	-
Injection Vol	ume: 1.	<u>0</u> (uL)		Dilution F	1.0		
GPC Cleanu	p: (Y/N)	N pH: 7					
Number TiCs	s found:	0	_	ONCENTRATIONS (Control of the control  N UNI			
CAS NUME	BER	COMPOUND NAME		RT	ES	ST. CONC.	Q

#### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name

BNA02748.D

Bhaskar

Sample Name

4539.04

Operator

Date Acquired

12-Jun-99

Misc Info

**0CW2MW31** 

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*			0
110-86-1	Pyridine	1 1	Kesponse	not detected	NLE	MDI		Qualifiers
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	<del></del>
62-53-3	Aniline			not detected	NLE	_	ug/L	
108-95-2	Phenoi			not detected			ug/L	<del> </del>
111-44-4	bis(2-Chloroethyl)ether				4000		ug/L	
95-57-8	2-Chlorophenol			not detected not detected	10 40	1	ug/L	-
541-73-1	1,3-Dichlorobenzene			not detected	600	T	ug/L	<u> </u>
106-46-7	1.4-Dichlorobenzene			not detected	75	1	ug/L ug/L	
100-51-6	Benzyl alcohol			not detected	NLE		T	<del> </del>
95-50-1	1,2-Dichlorobenzene			not detected	600		ug/L	<u>                                     </u>
95-48-7	2-Methylphenol			not detected	NLE		ug/L	<u> </u>
108-60-1	bis(2-chloroisopropyl)ether			not detected	300		ug/L ug/L	<del> </del>
106-44-5	4-Methylphenol			not detected	<u> </u>			<del> </del>
621-64-7	n-Nitroso-di-n-propylamine			not detected	NLE 20		ug/L	
67-72-1	Hexachloroethane	·	•	not detected			ug/L	
98-95-3	Nitrobenzene	1		not detected	10 10		ug/L ug/L	
78-59-1	Isophorone			not detected	100	1	ug/L ug/L	<del> </del>
88-75-5	2-Nitrophenol	<u> </u>		not detected	NLE			<del> </del>
105-67-9	2,4-Dimethylphenol	1		not detected	100		ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.27	ug/L	<del> </del>
120-83-2	2,4-Dichlorophenol			not detected	20		ug/L	<del> </del>
65-85-0	Benzoic Acid			not detected	NLE		ug/L	
120-82-1	1,2,4-Trichlorobenzene	1		not detected	9	I "	ug/L	<del> </del>
91-20-3	Naphthalene	1 1		not detected	NLE	1	ug/L	<del></del>
106-47-8	4-Chloroaniline	<b>†</b>		not detected	NLE		ug/L	l
87-68-3	Hexachlorobutadiene			not detected	NEE 1		ug/L	<u> </u>
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.38	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE		ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50		ug/L	·
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42		
95-95 <b>-</b> 4	2,4,5-Trichlorophenol			not detected	700	0.31		
91-58-7	2-Chloronaphthalene			not detected	NLE	0.31		
88-74-4	2-Nitroaniline			not detected	NLE	0.32		
131-11 <b>-</b> 3	Dimethylphthalate			not detected	7000	0.18		
208-96-8	Acenaphthylene			not detected	NLE	0.19		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	. 0.31		
99-09-2	3-Nitroaniline			not detected	NLE	0.26		
83-32-9	Acenaphthene			not detected	400	0.26		
51-28-5	2,4-Dinitrophenol			not detected	40	0.69		
132-64-9	Dibenzofuran			not detected	NLE	0.32		
100-02-7	4-Nitrophenol			not detected	NLE	0.27		

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA02748.D

Operator

Date Acquired

Bhaskar

12-Jun-99

Sample Name

4539.04

Misc Info

0CW2MW31

Sample Multiplier

1

CAS#	Name	R.T.	D	Result	Regulatory Level (ug/L)*			
121-14-2	2,4-Dinitrotoluene			T	MDL 0.36 ug/L		Qualifiers	
84-66-2	Diethylphthalate			not detected	10		-,-1-/	[
86-73-7				not detected	5000	0.82		<u> </u>
7005-72-3	Fluorene	-		not detected	300	0.29		
	4-Chlorophenyl-phenylether	-		not detected	NLE	0.31		
100-01-6	4-Nitroaniline	+ -		not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	+ +		not detected	NLE	0.44	ug/L	
86-30-6	n-Nitrosodiphenylamine	1		not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.55	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000	0.19	ug/L	
84-74-2	Di-n-butylphthalate	1		not detected	900	0.23		
206-44-0	Fluoranthene			not detected	300	0.41		
92-87-5	Benzidine			not detected	50	1.45	ug/L	
129-00-0	Pyrene			not detected	- 200	0.32		-
85-68-7	Butylbenzylphthalate			not detected	100	0.47		
56-55-3	Benzo[a]anthracene			not detected	10	0.22		·
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46		•
218-01-9	Chrysene			not detected	20	0.20		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51		·····
117-84-0	Di-n-octylphthalate			not detected	100	0.82		·············
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37		
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32		
50-32-8	Benzo[a]pyrene			not detected	20	0.31		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	<del></del>	·, · , · , · , · , · , · , · , · , · ,
53-70- <b>3</b>	Dibenz[a,h]anthracene			not detected	20	0.79 1	<del></del>	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40 t		·····

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time 1F

# TENTATIVELY IDENTIFIED COMPOUNDS

ILE OUGANIOS ANALTSIS DATA SHEET	1 1260
ATIVELY INCINCION AGAINST THE	

Lab Name:	FMETL		_ Lab Co	de j	13461		0CW2MW3	31
Project	LTM	Case No.: 4539	Loca	tion	CW2	_ s	DG No.:	
Matrix: (soil/	water)	WATER	į	Lab	Sample	ID:	4539.04	
Sample wt/vo	ol:	1000 (g/ml) ML		Lab	File ID:		BNA02748.D	
Level: (low/r	ned)	LOW		Date	Receiv	red:	6/9/99	
% Moisture:		decanted: (Y/N)	<u>N</u>	Date	Extrac	ted:	6/10/99	
Concentrated	1	Date Analyzed: 6			6/12/99			
Injection Volu	Injection Volume: 1.0 (uL)				Dilution Factor: 1			
GPC Cleanup: (Y/N) N pH: 7								
			CONCE	NTR.	ATION	UNI	ΓS:	
Number TICs	found:	0	(ug/L or	ug/K	g)	UG/I		
CAS NUMB	ER	COMPOUND NAME			RT	ES	T. CONC.	Q

## Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory

**NJDEP Certification #13461** 

Operator

Data File Name BNA02749.D

Bhaskar

Misc Info

Sample Name

4539.05 0CW2MW32

Date Acquired

12-Jun-99

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
110-86-1	Pyridine			not detected	NLE	T	ug/L	Valificis
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	
62-53-3	Aniline			not detected	NLE	1	ug/L	
108-95-2	Phenol			not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1	ug/L	
95-57-8	2-Chlorophenol			not detected	40	<del>                                     </del>	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	l .	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	_	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE		ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600		ug/L	
95-48-7	2-Methylphenol			not detected	NLE		ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300		ug/L	
106-44-5	4-Methylphenol			not detected	NLE		ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20		ug/L	
67-72-1	Hexachloroethane			not detected	10		ug/L	
98-95-3	Nitrobenzene			not detected	10		ug/L	
78-59-1	Isophorone			not detected	100		ug/L	·
88-75-5	2-Nitrophenol			not detected	NLE	<u> </u>	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.27		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46		
120-83-2	2,4-Dichlorophenol			not detected	20	0.12		
65-85-0	Benzoic Acid			not detected	NLE	0.26		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.25		
91-20-3	Naphthalene			not detected	NLE		ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19		
87 <b>-</b> 68-3	Hexachlorobutadiene			not detected	1	0.38		
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.18		
91-57-6	2-Methylnaphthalene			not detected	NLE	0.16	ug/L	
<u>77-4</u> 7-4	Hexachlorocyclopentadiene			not detected	50	1.50	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.42		
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.31		
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32		
88-74-4	2-Nitroaniline			not detected	NLE	0.21		
131-11-3	Dimethylphthalate			not detected	7000	0.18		
208-96-8	Acenaphthylene	$oxed{\Box}$		not detected	NLE	0.19		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31		
99-09-2	3-Nitroaniline			not detected	NLE	0.26		
83-32-9	Acenaphthene			not detected	400	0.26		
51-28-5	2,4-Dinitrophenol			not detected	40	0.69		
132-64-9	Dibenzofuran			not detected	NLE	0.32		
100-02-7	4-Nitrophenol			not detected	NLE	0.27	7	

### Semi-Volatile Analysis Report Page 2

Data File Name BNA02749.D

Date Acquired

Operator

Bhaskar 12-Jun-99 Sample Name

4539.05

Misc Info

0CW2MW32

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
121-14-2	2.4-Dinitrotoluene	T	21000001100	not detected	10	T	ug/L	Quantiers
84-66-2	Diethylphthalate			not detected	5000	·	ug/L	
86-73-7	Fluorene			not detected	300		ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE		ug/L	<u>.                                    </u>
100-01-6	4-Nitroaniline			not detected	NLE		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE		ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20		ug/L	
103-33-3	Azobenzene			not detected	NLE		ug/L	·
101-55-3	4-Bromophenyl-phenylether			not detected	NLE		ug/L	
118-74-1	Hexachlorobenzene			not detected	10		ug/L	
87-86-5	Pentachlorophenol			not detected	1		ug/L	
85-01-8	Phenanthrene			not detected	NLE		ug/L	
120-12-7	Anthracene			not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate			not detected	900		ug/L	
206-44-0	Fluoranthene			not detected	300		ug/L	
92-87 <b>-</b> 5	Benzidine			not detected	50		ug/L	
129-00-0	Pyrene			not detected	200		ug/L	
85-68 <b>-</b> 7	Butylbenzylphthalate			not detected	100	-	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10		ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46		
218-01-9	Chrysene			not detected	20	0.20		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51		
117-84-0	Di-n-octylphthalate			not detected	100	0.82		
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37		
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32		
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79	ug/L	
53-70-3	Dibenz[a,h]anthracene	1		not detected	20	0.28	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97.

### **Qualifiers**

E= Value Exceeds Linear Range D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID

		IENIA	HAFTA IDENTIF	-IED	COMPOUNDS	
Lab Name:	FMETL			1	ab Code 13461	0CW2MW32
Project	LTM	Ca	ase No.: <u>4539</u>		Location CW2 S	DG No.:
Matrix: (soil/v	vater)	WATER	_		Lab Sample ID:	4539.05
Sample wt/vo	ol:	1000	(g/ml) ML	<b></b>	Lab File ID:	BNA02749.D
_evel: (low/n	ned)	LOW	_		Date Received:	6/9/99
% Moisture:		dec	anted: (Y/N)	N	Date Extracted:	6/10/99
Concentrated	d Extract	Volume:	1000 (uL)		Date Analyzed:	6/12/99
njection Volu	ıme: <u>1.</u>	0 (uL)			Dilution Factor:	1.0
GPC Cleanup	o: (Y/N)	<u>N</u>	pH: <u>7</u>			
						•

Number TICs found:	0	CONCENTRATION (ug/L or ug/Kg)	N UNITS: UG/L	1
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

## Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory

### **NJDEP Certification #13461**

Data File Name BNA02750.D

Date Acquired

Operator

Bhaskar 12-Jun-99 Sample Name

4539.06

Misc Info

0CW2MW33

Sample Multiplier

CAS#         Name         R.T.         Response         Result         (ug/L)*           110-86-1         Pyridine         not detected         NLE           62-75-9         N-nitroso-dimethylamine         not detected         20           62-53-3         Aniline         not detected         NLE           108-95-2         Phenol         not detected         4000           111-44-4         bis(2-Chloroethyl)ether         not detected         10           95-57-8         2-Chlorophenol         not detected         40           541-73-1         1,3-Dichlorobenzene         not detected         600           106-46-7         1,4-Dichlorobenzene         not detected         75	0.94 0.15 0.47 0.48	ug/L ug/L ug/L ug/L ug/L	Qualifiers
62-75-9         N-nitroso-dimethylamine         not detected         20           62-53-3         Aniline         not detected         NLE           108-95-2         Phenol         not detected         4000           111-44-4         bis(2-Chloroethyl)ether         not detected         10           95-57-8         2-Chlorophenol         not detected         40           541-73-1         1,3-Dichlorobenzene         not detected         600	0.94 0.15 0.47 0.48 0.18 0.15	ug/L ug/L ug/L ug/L ug/L	
62-53-3         Aniline         not detected         NLE           108-95-2         Phenol         not detected         4000           111-44-4         bis(2-Chloroethyl)ether         not detected         10           95-57-8         2-Chlorophenol         not detected         40           541-73-1         1,3-Dichlorobenzene         not detected         600	0.15 0.47 0.48 0.18 0.15	ug/L ug/L ug/L ug/L	
108-95-2         Phenol         not detected         4000           111-44-4         bis(2-Chloroethyl)ether         not detected         10           95-57-8         2-Chlorophenol         not detected         40           541-73-1         1,3-Dichlorobenzene         not detected         600	0.47 0.48 0.18 0.15	ug/L ug/L ug/L	
111-44-4         bis(2-Chloroethyl)ether         not detected         10           95-57-8         2-Chlorophenol         not detected         40           541-73-1         1,3-Dichlorobenzene         not detected         600	0.48 0.18 0.15	ug/L ug/L	
95-57-8         2-Chlorophenol         not detected         40           541-73-1         1,3-Dichlorobenzene         not detected         600	0.18 0.15	ug/L	
541-73-1 1,3-Dichlorobenzene not detected 600	0.15	T	<del> </del>
	<u>U.23</u>		
100-51-6 Benzyl alcohol not detected NLE	Λ 10	ug/L ug/L	
95-50-1 1,2-Dichlorobenzene not detected 600		ug/L	<u> </u>
95-48-7 2-Methylphenol not detected NLE		ug/L ug/L	
108-60-1 bis(2-chloroisopropyl)ether not detected 300			
106-44-5 4-Methylphenol not detected NLE		ug/L	
621-64-7 n-Nitroso-di-n-propylamine not detected 20		ug/L ug/L	<del>                                     </del>
67-72-1 Hexachloroethane not detected 10	0.33	ug/L	<u> </u>
98-95-3 Nitrobenzene not detected 10		ug/L	
78-59-1 Isophorone not detected 100		ug/L ug/L	
88-75-5 2-Nitrophenol not detected NLE			
105-67-9 2,4-Dimethylphenol not detected 100		ug/L	
That detected 100		ug/L ug/L	
1,75		ug/L ug/L	
Total activities 20		ug/L ug/L	
100.00		ug/L ug/L	
N. CO. C.			
and detected Add	į	ug/L ug/L	
The second secon		ug/L ug/L	
		ug/L	
not decesed Atal		ug/L	
		ug/L	
not detected 50		ug/L	
25.05.4		ug/L	•
01.50 d		ug/L	
Total State of Table 1		ug/L ug/L	
404.44.0		ug/L	
200.00		ug/L	
(0) 00		ug/L ug/L	-
20.00.0	-	ug/L	
		ug/L ug/L	
51.00 5		ug/L ug/L	
100 (4.0		ug/L ug/L	
100.00		ug/L ug/L	

## Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BNA02750.D

Operator

12-Jun-99

Bhaskar

Sample Name

4539.06

1

Misc Info

0CW2MW33

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL	,	Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.36	ug/L	
84-66-2	Diethylphthalate			not detected	5000		ug/L	
86-73-7	Fluorene	_		not detected	300		ug/L	h-1
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.31	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	0.90	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE		ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.23	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.80	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	ſ	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.82	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.08	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene		_	not detected	300	0.41	ug/L	. "
92-87-5	Benzidine			not detected	50		ug/L	
129-00-0	Pyrene			not detected	200		ug/L	
85-68-7	Butylbenzylphthalate			not detected	100		ug/L	
56-55-3	Benzo[a]anthracene			not detected	10		ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46	ug/L	
218-01-9	Chrysene			not detected	20	0.20	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51		
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32		
50-32-8	Benzo[a]pyrene			not detected	20	0.31	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	11		not detected	20	0.79		
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.28		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40		

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NIAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL		Lab Co	de <u>13461</u>		0CW2M	W33
Project	LTM	Case No.: 4539	Loca	tion CW2	S	DG No.:	
Matrix: (soil/	water)	WATER		Lab Sampi	le ID:	4539.06	
Sample wt/v	ol:	1000 (g/ml) ML		Lab File ID	);	BNA02750.D	)
Level: (low/r	ned)	LOW		Date Rece	ived:	6/9/99	
% Moisture:		decanted: (Y/N)	N	Date Extra	cted:	6/10/99	
Concentrate	d Extract	Volume: 1000 (uL)		Date Analy	zed:	6/12/99	
Injection Vol	ume: <u>1.</u>	<u>0        (uL)</u>		Dilution Fa	ctor:	1.0	<del>-</del>
GPC Cleanu	p: (Y/N)	<u>N</u> pH: <u>7</u>					
Number TICs	s found:	0	ER Lab Samp  (g/ml) ML Lab File ID  Date Rece decanted: (Y/N) N Date Extra e: 1000 (uL) Date Analy uL) Dilution Fa  pH: 7  CONCENTRATION (ug/L or ug/Kg)	1 UNIT UG/I	•		
CAS NUME	BER	COMPOUND NAME		RT	ES	T. CONC.	Q

## Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory

### **NJDEP Certification #13461**

Data File Name BNA02751.D

Operator Bhaskar Date Acquired

12-Jun-99

Sample Name 4539.07

Misc Info Dupe

Sample Multiplier

Regulatory
Level
/ OT \#

					Level			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	5.00 t	ug/L	
62-75-9	N-nitroso-dimethylamine	<u> </u>		not detected	20	0.94 t	ng/L	
62-53-3	Aniline			not detected	NLE	0.15	ng/L	
108-95-2	Phenoi			not detected	4000	0.47 t	1g/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.48 1	ıg/L	
95-57-8	2-Chlorophenol			not detected	40	0.18 t	ıg/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.15 t	ıg/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.23 u	ıg/L	
100-51-6	Benzyl alcohol	<u> </u>		not detected	NLE	0.18 u	ıg/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.16 u	ig/L	-
95-48-7	2-Methylphenol			not detected	NLE	0.14 u		
108-60-1	bis(2-chloroisopropyl)ether			not detected	300		ıg/L	
106-44-5	4-Methylphenol			not detected	NLE	0.14 u	ıg/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.36 u	ıg/L	
67-72-1	Hexachloroethane			not detected	10	0.33 u	ıg/L	
98-95-3	Nitrobenzene			not detected	10	0.46 u	ıg/L	_
78-59-1	Isophorone			not detected	100	0.35 u	ıg/L	
88-75-5	2-Nitrophenol	<u> </u>		not detected	NLE	0.23 u	g/L	
105-67-9	2,4-Dimethylphenol	<u> </u>		not detected	100	0.27 u	g/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.46 ս	g/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.12 u	g/L	
65-85-0	Benzoic Acid			not detected	NLE	0.26 u	g/L	
120-82-1	1,2,4-Trichlorobenzene	11		not detected	9	0.25 u	g/L	
91 <b>-</b> 20-3	Naphthalene		<u> </u>	not detected	NLE	0.25 u	g/L	
106-47-8	4-Chloroaniline			not detected	NLE	0.19 u	g/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.38 u	g/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0,18 ս	g/L	
<u>91-57-6</u>	2-Methylnaphthalene			not detected	NLE	0.16 u	g/L	
77-47-4	Hexachlorocyclopentadiene	1		not detected	50	1.50 ս	g/L	
88-06-2	2,4,6-Trichlorophenol	<b> </b>		not detected	20	0.42 u	g/L	
95-95-4	2,4,5-Trichlorophenol	<u> </u>		not detected	700	0.31 սյ	g/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.32 սյ	g/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.21 u	g/L	
131-11-3	Dimethylphthalate			not detected	7000	0.18 u	g/L	
208-96-8	Acenaphthylene			not detected	NLE	0.19 սյ		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.31 u	g/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.26 us		
83-32-9	Acenaphthene			not detected	400	0.26 us		
51-28-5	2,4-Dinitrophenol			not detected	40	0.69 և։	g/L	
132-64-9	Dibenzofuran			not detected	NLE	0.32 us		
100-02-7	4-Nitrophenol			not detected	NLE	0.27 սչ		

### Semi-Volatile Analysis Report Page 2

Data File Name BNA02751.D

Sample Name

4539.07

Operator

Bhaskar

Misc Info

Dupe

1

Date Acquired

12-Jun-99

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10		ug/L	
84-66-2	Diethylphthalate			not detected	5000		ug/L	·
86-73-7	Fluorene			not detected	300		ug/L	
7005-72-3	4-Chlorophenyl-phenylether		ľ	not detected	NLE		ug/L	
100-01 <b>-</b> 6	4-Nitroaniline			not detected	NLE		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE		ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20		ug/L	
103-33-3	Azobenzene			not detected	NLE		ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE		ug/L	
118-74-1	Hexachlorobenzene			not detected	10		ug/L	
87 <b>-</b> 86-5	Pentachlorophenol			not detected	1		ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.18	ug/L	
120-12-7	Anthracene			not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	0.23	ug/L	
206-44-0	Fluoranthene			not detected	300	0.41		
92-87-5	Benzidine			not detected	50		ug/L	
129-00-0	Pyrene			not detected	200	0.32		
85-68-7	Butylbenzylphthalate			not detected	100	0.47	ug/L	· · · · · · · · · · · · · · · · · · ·
56-55-3	Benzo[a]anthracene			not detected	10	0.22	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.46		··········
218-01-9	Chrysene	1. 1		not detected	20	0.20		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.51		
117-84-0	Di-n-octylphthalate			not detected	100	0.82	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.37		
207-08-9	Benzo[k]fluoranthene			not detected	2	0.32	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	0.31		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.79		·
53-70-3	Dibenz[a,h]anthracene			not detected	20		ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.40		

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

Page 2 of 2

### 1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	IELD	ID	
г			

Lab Name:	FMETL		Lab Co	de 13461		Dup	е
Project	LTM	Case No.: 4539	Loca	tion CW2	SI	DG No.:	
Matrix: (soil/	water)	WATER		Lab Sample	D:	4539.07	
Sample wt/v	ol:	1000 (g/ml) ML		Lab File ID:		BNA02751.D	<u> </u>
Level: (low/r	med)	LOW		Date Receiv	/ed:	6/9/99	
% Moisture:		decanted: (Y/N)	N	Date Extrac	ted:	6/10/99	
Concentrate	d Extract	Volume: <u>1000</u> (uL)		Date Analyz	zed:	6/12/99	
Injection Vol	ume: <u>1.0</u>	<u>)         (uL)                          </u>		Dilution Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	N pH: 7					
Number TICs	s found:	0	CONCE	NTRATION ug/Kg)	UNIȚ UG/L		
CAS NUME	BER	COMPOUND NAME		RT	ES	T. CONC.	Q

Client:

U.S. Army

Bldg. 173

Lab. ID #: Date Rec'd: BLK350

DPW, SELFM-PW-EV

**Extraction Date:** 

6/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

6/12/99

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep.	Funnel				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009.	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		. 0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chiordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	·ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4539.02

DPW, SELFM-PW-EV

Date Rec'd:

6/9/99

Bldg. 173

**Extraction Date:** 

6/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

6/12/99

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

CW2

Analyst:

Field ID:

Field Blank

Ext. Meth:

T. Frankovich Sep. Funnel

Ext. Mett: Sep. Full					·····
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	· ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID # :

4539.03

DPW, SELFM-PW-EV

Date Rec'd:

6/9/99

Bldg. 173

**Extraction Date:** 

6/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

6/12/99

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

OCW2MW30

Ext. Meth:

Sep. Funnel

Ext. Weth: Sep.	runnei		T		
Pesticide/PCB	Dilution Factor	Retention . Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1	<b>1</b>	2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Тохарнепе	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4539.04

DPW, SELFM-PW-EV

Date Rec'd:

6/9/99

Bldg. 173

**Extraction Date:** 

6/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

6/12/99

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Analyst:

Aqueous

T. Frankovich

Field ID:

OCW2MW31

Ext. Meth:

Sep Funnel

Ext. Meth: Sep. Funnel								
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)			
alpha-BHC	1		0.02	0.0030	ND			
beta-BHC	1		0.20	0.0024	ND			
gamma-BHC	1		0.20	0.0015	ND			
delta-BHC	1		NLE	0.0019	ND			
Heptachlor	1		0.40	0.0020	ND			
Aldrin	1	:	0.04	0.0010	ND			
Heptachlor Epoxide	1		0.20	0.0009	ND			
Endosulfan I	1		0.40	0.0057	ND			
4,4'-DDE	1		0.10	0.0009	ND			
Dieldrin	1		0.03	0.0016	ND			
Endrin	1		2.00	0.0020	ND			
Endrin Ketone	1		NLE	0.0012	ND			
Endosulfan II	1		0.40	0.0033	ND			
4,4'-DDD	1	•	0.10	0.0022	ND			
4,4'-DDT	1		0.10	0.0013	ND			
Endosulfan-Sulfate	1		0.40	0.0027	ND			
Methoxychlor	1		40.00	0.0038	ND			
Alpha-chlordane	1	·	0.50	0.0011	ND			
Gamma-chlordane	1		0.50	0.0009	ND			
Toxaphene	1	·	3.00	0.0273	ND			
Arochlor 1016	1		0.50	0.0640	ND			
Arochlor 1221	1		0.50	0.0500	ND			
Arochlor 1232	1		0.50	0.0500	ND			
Arochlor 1242	1		0.50	0.0280	ND			
Arochlor 1248	1		0.50	0.0500	ND			
Arochlor 1254	1		0.50	0.0500	ND ND			
Arochlor 1260	1		0.50	0.0680	ND			

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4539.05

DPW, SELFM-PW-EV

Date Rec'd:

6/9/99

Bldg. 173

**Extraction Date:** 

6/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

6/12/99

Analysis:

EPA Method 608

Location:

CW2

Matrix: Analyst: Aqueous

T. Frankovich

Field ID:

OCW2MW32

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. Fu					
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		. 0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1 1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1	·	0.50	0.0500	ND
Arochlor 1242	1 1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4539.06

DPW, SELFM-PW-EV

Date Rec'd:

6/9/99

Bldg. 173

**Extraction Date:** 

6/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

6/12/99

Analysis:

EPA Method 608

Location:

CW2

Matrix: Analyst: Aqueous

T. Frankovich

Field ID:

OCW2MW33

Ext. Meth:

Sep. Funnel

Ext. Wein: Sep. Funner							
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)		
alpha-BHC	1		0.02	0.0030	ND		
beta-BHC	1		0.20	0.0024	ND		
gamma-BHC	1		0.20	0.0015	ND		
delta-BHC	1		NLE	0.0019	ND		
Heptachlor	1		0.40	0.0020	ND		
Aldrin	1		0.04	0.0010	ND		
Heptachlor Epoxide	1		0.20	0.0009	ND		
Endosulfan I	1		0.40	0.0057	ND		
4,4'-DDE	1	,	0.10	0.0009	ND		
Dieldrin	1		0.03	0.0016	. ND		
Endrin	1		2.00	0.0020	ND		
Endrin Ketone	1		NLE	0.0012	ND		
Endosulfan II	1		0.40	0.0033	ND		
4,4'-DDD	1		0.10	0.0022	ND		
4,4'-DDT	1		0.10	0.0013	ND		
Endosulfan-Sulfate	1		0.40	0.0027	ND		
Methoxychlor	1		40.00	0.0038	ND		
Alpha-chlordane	1		0.50	0.0011	ND		
Gamma-chlordane	1		0.50	0.0009	ND		
Toxaphene	1		3.00	0.0273	ND		
Arochlor 1016	1		0.50	0.0640	ND		
Arochlor 1221	1		0.50	0.0500	ND		
Arochlor 1232	1		0.50	0.0500	ND		
Arochlor 1242	1		0.50	0.0280	ND		
Arochlor 1248	1		0.50	0.0500	ND		
Arochlor 1254	1		0.50	0.0500	ND		
Arochlor 1260	1		0.50	0.0680	ND		

\* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4539.07

DPW, SELFM-PW-EV

Date Rec'd:

6/9/99

Bldg. 173

**Extraction Date:** 

6/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

6/12/99

Analysis:

EPA Method 608

T. Frankovich

Location:

CW2

Matrix: Analyst: Aqueous

Field ID:

Dupe

Sep. Funnel Ext. Meth:

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1	-	NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV Sample P.

Bldg. 173

Ft. Monmouth, NJ 07703

Site: CW-2

Ft. Monmouth, New Jersey

Lab ID #: 4539

Sample Prepared: 07/01/99

Field ID#: Method Blank

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/01/99	61.0	200	10.0
Antimony	07/01/99	5.85	20	2.0
Arsenic	07/01/99	ND	8	2.0
Barium	07/01/99	ND	2000	0.5
Beryllium	07/01/99	ND	20	0.5
Cadmium	07/01/99	20.7	4	0.5
Calcium	07/01/99	204	NLE	20.0
Chromium	07/01/99	1.14	100	0.5
Cobalt	07/01/99	ND	NLE	0.5
Соррег	07/01/99	193	1000	3.0
Iron	07/01/99	65.0	300	10.0
Lead	07/01/99	ND	10	2.0
Magnesium	07/01/99	178	NLE	20.0
Manganese	07/01/99	1.78	50	0.5
Mercury	07/02/99	ND	2	0.1
Nickel	07/01/99	2.35	100	0.5
Potassium	07/01/99	31.0	NLE	20.0
Selenium	07/01/99	ND	50	3.0
Silver	07/01/99	ND	20	3.0
Sodium	07/01/99	181	50000	20.0
Thallium	07/01/99	ND	10	3.0
Vanadium	07/01/99	ND	NLE	1.0
Zinc	07/01/99	6.00	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4539.02

Sample Received: 06/09/99

Sample Matrix: Aqueous

Site: CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/01/99	ND	200	10.0
Antimony	07/01/99	ND	20	2.0
Arsenic	07/01/99	ND	8	2.0
Barium	07/01/99	0.952	2000	0.5
Beryllium	07/01/99	ND	20	0.5
Cadmium	07/01/99	2.57	4	0.5
Calcium	07/01/99	107	NLE	20.0
Chromium	07/01/99	ND	100	0.5
Cobalt	07/01/99	ND	NLE	0.5
Copper	07/01/99	51.9	1000	3.0
Iron	07/01/99	ND	300	10.0
Lead	07/01/99	ND	10	2.0
Magnesium	07/01/99	39.8	NLE	20.0
Manganese	07/01/99	1.34	50	0.5
Mercury	07/02/99	ND	. 2	0.1
Nickel	07/01/99	1.12	100	0.5
Potassium	07/01/99	ND	NLE	20.0
Selenium	07/01/99	ND	50	3.0
Silver	07/01/99	ND	20	3.0
Sodium	07/01/99	157	50000	20.0
Thallium	07/01/99	6.34	10	3.0
Vanadium	07/01/99	ND	NLE	1.0
Zinc	07/01/99	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4539.03

Sample Received: 06/09/99

Sample Matrix: Aqueous

Site: CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW30

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/01/99	521	200	10.0
Antimony	07/01/99	2.58	20	2.0
Arsenic	07/01/99	6.33	8	2.0
Barium	07/01/99	111	2000	0.5
Beryllium	07/01/99	ND	20	0.5
Cadmium	07/01/99	1.08	4	0.5
Calcium	07/01/99	87400	NLE	20.0
Chromium	07/01/99	5.43	100	0.5
Cobalt	07/01/99	0.675	NLE	0.5
Copper	07/01/99	51.5	1000	3.0
Iron	07/01/99	8210	300	10.0
Lead	07/01/99	ND	10	2.0
Magnesium	07/01/99	6800	NLE	20.0
Manganese	07/01/99	145	50	0.5
Mercury	07/02/99	ND	2	0.1
Nickel	07/01/99	1.60	100	0.5
Potassium	07/01/99	12700	NLE	20.0
Selenium	07/01/99	ND	50	3.0
Silver	07/01/99	ND	20	3.0
Sodium	07/01/99	25700	50000	20.0
Thallium	07/01/99	ND	10	3.0
Vanadium	07/01/99	3.65	NLE	1.0
Zinc	07/01/99	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4539.04

Sample Received: 06/09/99

Sample Matrix: Aqueous

Site: CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW31

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/01/99	27.9	200	10.0
Antimony	07/01/99	ND	20	2.0
Arsenic	07/01/99	ND	8	2.0
Barium	07/01/99	348	2000	0.5
Beryllium	07/01/99	ND	20	0.5
Cadmium	07/01/99	3.50	4	0.5
Calcium	07/01/99	60100	NLE	20.0
Chromium	07/01/99	ND	100	0.5
Cobalt	07/01/99	ND	NLE	0.5
Copper	07/01/99	15.7	1000	3.0
Iron	07/01/99	104000	300	10.0
Lead	07/01/99	ND	10	2.0
Magnesium	07/01/99	7070	NLE	20.0
Manganese	07/01/99	326	50	0.5
Mercury	07/02/99	ND	2	0.1
Nickel	07/01/99	ND	100	0.5
Potassium	07/01/99	11200	NLE	20.0
Selenium	07/01/99	ND	50	3.0
Silver	07/01/99	ND	20	3.0
Sodium	07/01/99	13000	50000	20.0
Thallium	07/01/99	ND	10	3.0
Vanadium	07/01/99	4.23	NLE	1.0
Zinc	07/01/99	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

Lab ID #: 4539.05 Sample Received: 06/09/99

DPW, SELFM-PW-EV

Bldg. 173 Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

Site: CW-2

Field ID#: 0CW2MW32

Ft. Monmouth, New Jersey

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/01/99	59.5	200	10.0
Antimony	07/01/99	ND	20	2.0
Arsenic	07/01/99	ND	8	2.0
Barium	07/01/99	202	2000	0.5
Beryllium	07/01/99	ND	20	0.5
Cadmium	07/01/99	2.06	4	0.5
Calcium	07/01/99	70700	NLE	20.0
Chromium	07/01/99	0.572	100	0.5
Cobalt	07/01/99	0.857	NLE	0.5
Copper	07/01/99	28.6	1000	3.0
Iron	07/01/99	64300	300	10.0
Lead	07/01/99	ND	10	2.0
Magnesium	07/01/99	7880	NLE	20.0
Manganese	07/01/99	310	50	0.5
Mercury	07/02/99	ND	2	0.1
Nickel	07/01/99	ND	100	0.5
Potassium	07/01/99	10700	NLE	20.0
Selenium	07/01/99	ND	50	3.0
Silver	07/01/99	ND	20	3.0
Sodium	07/01/99	15500	50000	20.0
Thallium	07/01/99	ND	10	3.0
Vanadium	07/01/99	5.48	NLE	1.0
Zinc	07/01/99	18.7	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4539.06

Sample Received: 06/09/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/01/99	336	200	10.0
Antimony	07/01/99	ND	20	2.0
Arsenic	07/01/99	5.82	8	2.0
Barium	07/01/99	212	2000	0.5
Beryllium	07/01/99	ND	20	0.5
Cadmium	07/01/99	2.06	4	0.5
Calcium	07/01/99	42100	NLE	20.0
Chromium	07/01/99	2.07	100	0.5
Cobalt	07/01/99	0.768	NLE	0.5
Copper	07/01/99	6.04	1000	3.0
Iron	07/01/99	69600	300	10.0
Lead	07/01/99	ND	10	2.0
Magnesium	07/01/99	4990	NLE	20.0
Manganese	07/01/99	214	50	0.5
Mercury	07/02/99	ND	2	0.1
Nickel	07/01/99	ND	100	0.5
Potassium	07/01/99	8140	NLE	20.0
Selenium	07/01/99	ND	50	3.0
Silver	07/01/99	ND	20	3.0
Sodium	07/01/99	19000	50000	20.0
Thallium	07/01/99	ND	10	3.0
Vanadium	07/01/99	4.91	NLE	1.0
Zine	07/01/99	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

Lab ID #: 4539.07

DPW, SELFM-PW-EV

Sample Received: 06/09/99

Bldg. 173

Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Dupe

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	07/01/99	238	200	10.0
Antimony	07/01/99	ND	20	2.0
Arsenic	07/01/99	5.79	8	2.0
Barium	07/01/99	113	2000	0.5
Beryllium	07/01/99	ND	20	0.5
Cadmium	07/01/99	ND	4	0.5
Calcium	07/01/99	89200	NLE	20.0
Chromium	07/01/99	3.26	100	0.5
Cobalt	07/01/99	ND	NLE	0.5
Copper	07/01/99	13.3	1000	3.0
Iron	07/01/99	5920	300	10.0
Lead	07/01/99	ND	10	2.0
Magnesium	07/01/99	6770	NLE	20.0
Manganese	07/01/99	148	50	0.5
Mercury	07/02/99	ND	2	0.1
Nickel	07/01/99	ND	100	0.5
Potassium	07/01/99	13100	NLE	20.0
Selenium	07/01/99	ND	50	3.0
Silver	07/01/99	ND	20	3.0
Sodium	07/01/99	25900	50000	20.0
Thallium	07/01/99	ND	10	3.0
Vanadium	07/01/99	2.64	NLE	1.0
Zinc	07/01/99	1.97	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

	Lab	Silanol, trimethyl-	Hexadeca noic Acid	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ugl	Feet	-
NJDEP Criteria:		NLE	NLE	300	50	200	8	10	-	-
04/24/97	FMETL	31	9	9100	69	-	_		6.45	V,S,P,M
07/10/97	FMETL	ND	ND	12590	73	25	5.0	ND	7.05	V,S,P,M
10/22/97	FMETL	ND	ND	34800	171	175	5.0	5.0	7.60	V,S,P,M
01/08/98	FMETL	ND	ND	2795	5.0	204	ND	4.0	5.20	V,S,P,M
04/07/98	FMETL	ND	ND	3504	39.3	196	5.6	ND	6.56	V,S,P,M
07/14/98	FMETL	ND	ND	10900	57.8	65.7	ND	ND	6.89	V,S,P,M
11/24/98	FMETL	ND	ND	27500	182	ND	11.5	3.15	7.86	V,S,P,M
02/11/99	FMETL	ND	ND	11000	100	505	8.3	ND	7.24	V,S,P,M
06/09/99	FMETL	ND	ND	8210	145	521	6.33	ND	7.21	V,S,P,M

Sampling Dates: 04/24/97 - 06/09/99

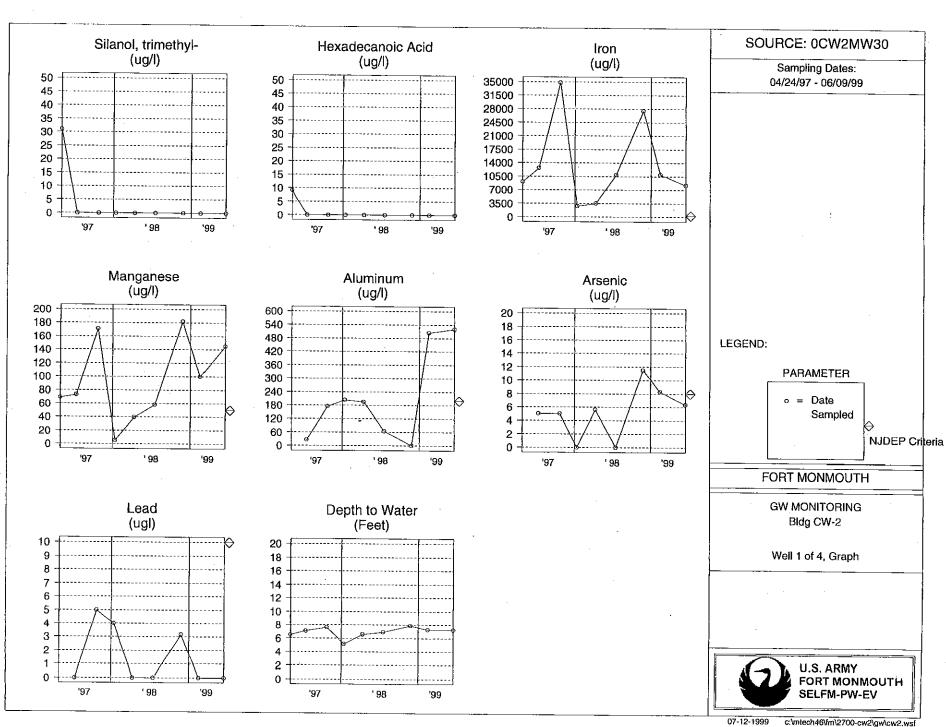
NOTES:

## FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 1 of 4





	Lab	Silanol, trimethyl-	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	•	ug/l	ug/l	ug/l	ug/i	ug/l	ugl	Feet	
NJDEP Criteria:		NLE	300	50	200	8	10		
04/24/97	FMETL	12	59900	277	-	-	•	6.38	V,S,P,M
07/10/97	FMETL	ND	11830	267	ND	1.0	ND	7.00	 V,S,P,M
10/22/97	FMETL	ND	52300	243	93	ND	6.0	7.50	V,S,P,M
01/08/98	FMETL	ND	68450	240	129	ND	25	6.30	 V,S,P,M
04/07/98	FMETL	ND	115100	266	ND	ND	ND	6.35	V,S,P,M
07/14/98	FMETL	ND	83600	311	390	ND	4.85	6.71	V,S,P,M
11/24/98	FMETL	ND	72800	322	ND	ND	2.33	7.78	V,S,P,M
02/11/99	FMETL	ND	71900	316	ND	ND	ND	7.07	V,S,P,M
06/09/99	FMETL	ND	104000	326	27.9	ND	ND	7.15	V,S,P,M

SOURCE: 0CW2MW31	
Sampling Dates: 04/24/97 - 06/09/99	

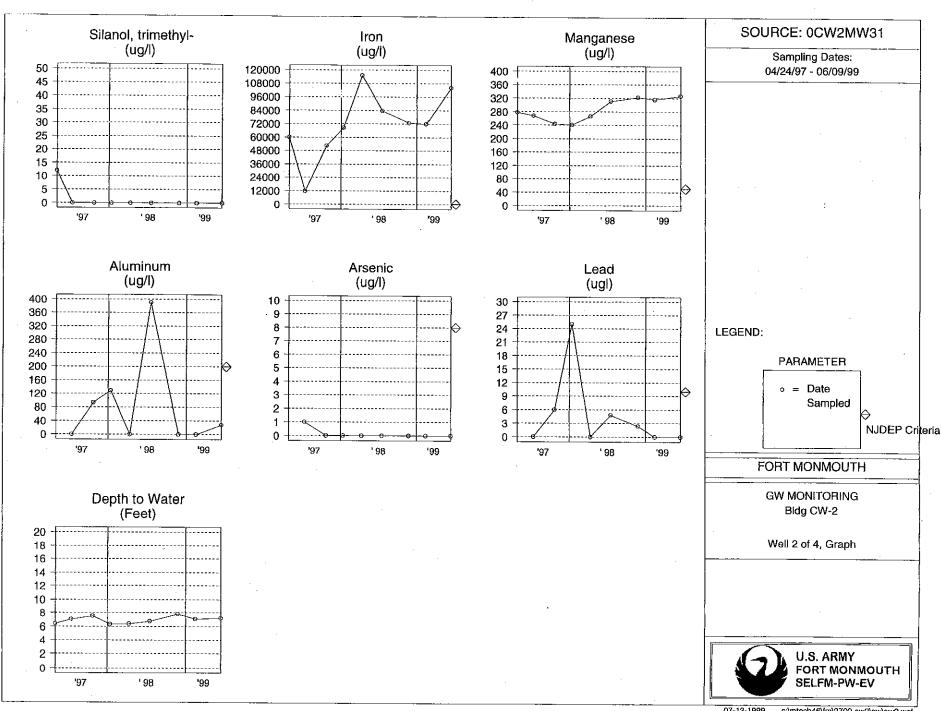
NOTES:

### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 2 of 4





	Lab	Silanol, 2 trimethyl-	2-Pentanone 4-hydroxy- 4-methyl	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water		Notes
Units:	-	ug/l	ug/l	ug/i	ug/l	ug/l	ug/l	ugl	Feet		-
NJDEP Criteria:	-	NLE	NLE	300	50	200	8	10			
04/24/97	FMETL	4	440	18400	125	-	•	•	6.65		V,S,P,M
07/10/97	FMETL	ND	ND	270	181	595	ND	ND	7.20		V,S,P,M
10/22/97	FMETL	ND	ND	51100	260	297	ND	7.0	7.70		V,S,P,M
01/08/98	FMETL	ND	ND	1484	3.7	163	ND	ND	4.50		V,S,P,M
04/07/98	FMETL	ND	22	19280	287	ND	ND	ND	6.81		V,S,P,M
07/14/98	FMETL	ND	ND	67500	287	78.1	2.51	3.99	7.06	[i	V,S,P,M
11/24/98	FMETL	ND	ND	106000	342	166	9.32	4.08	7.94		V,S,P,M
02/11/99	FMETL	ND	ND	4480	7.02	137	ND	ND	7.33		V,S,P,M
06/09/99	FMETL.	ND	ND	64300	310	59.5	ND	ND	7.49		V,S,P,M

Sampling Dates: 04/24/97 - 06/09/99

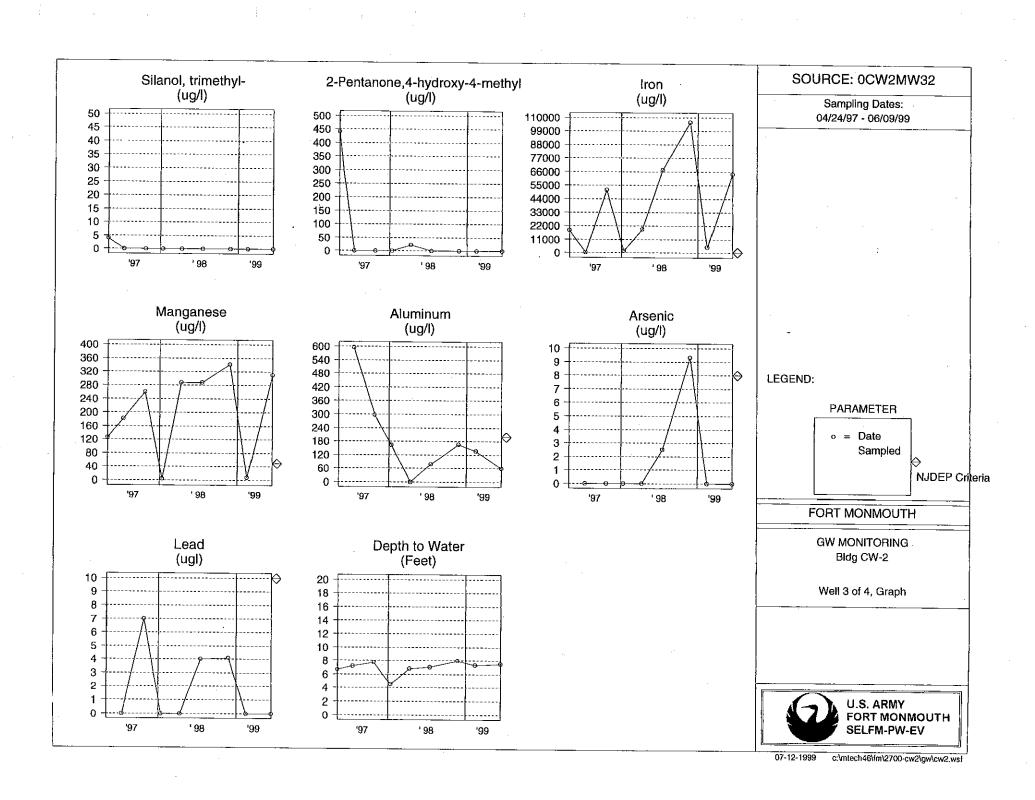
NOTES:

### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 3 of 4





	Lab	Silanol, trimethyl-	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ugl	Feet	 -
NJDEP Criteria:		NLE	300	50	200	8	10	-	-
04/24/97	FMETL	30	88600	424	-	•	- *=	8.95	 V,S,P,M
07/10/97	FMETL	ND	10260	519	2.1	1.0	ND	9.10	V,S,P,M
10/22/97	FMETL	ND	26800	151	94	ND	4.0	9.10	V,S,P,M
01/08/98	FMETL	ND	104700	342	217	6.0	4.0	9.00	V,S,P,M
04/07/98	FMETL	ND	19780	110	119	3.4	ND	9.50	V,S,P,M
07/14/98	FMETL	ND	35900	130	411	ND	4.19	9.09	V,S,P,M
11/24/98	FMETL	ND	25400	87.8	125	ND	ND	9.13	V,S,P,M
02/11/99	FMETL	ND	11300	81.2	67.8	ND	ND	8.13	V,S,P,M
06/09/99	FMETL	ND	69600	214	336	5.82	ND	9.13	V,S,P,M

SOURCE:	0CW2MW33

Sampling Dates: 04/24/97 - 06/09/99

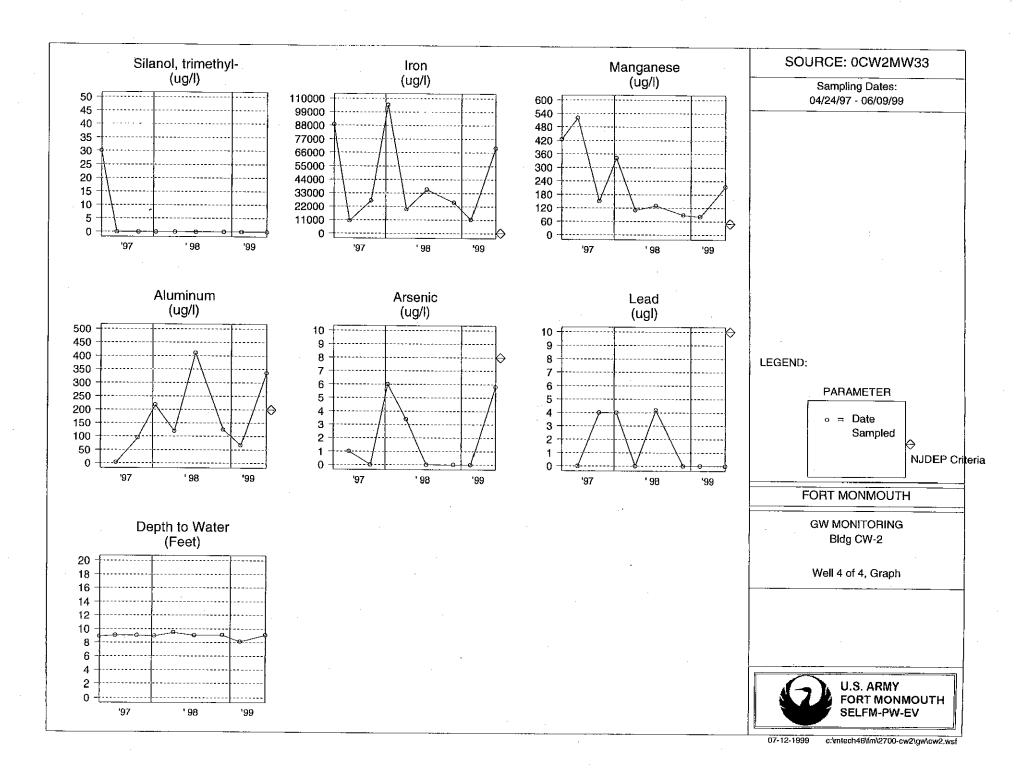
NOTES:

### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 4 of 4





# FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

## **DIRECTORATE OF PUBLIC WORKS**

PHONE: (732)532-6224 FAX: (732)532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



## ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
4686.04	0CW2MW30	29-32594	08/04/99
4686.05	0CW2MW31	29-32595	08/04/99
4686.06	0CW2MW32	29-32596	08/04/99
4686.07	0CW2MW33	29-32597	08/04/99

NJDEP Laboratory Certification # 13461

Daniel Wright/Date:

Laboratory Director

## METHODOLOGY SUMMARY

PARAMETER	REFERENCE			
TARGET ANALYTE LIST	Standard Methods, 18th ed.			
METALS				
Aluminum	3120B			
Antimony	3120B			
Arsenic	3120B			
Barium	3120B			
Beryllium	3120B			
Cadmium	3120B			
Calcium	3120B			
Chromium	3120B			
Cobalt	3120B			
Copper	3120B			
Iron	3120B			
Lead	3120B			
Magnesium	3120B			
Manganese	3120B			
Mercury	3112B			
Nickel	3120B			
Potassium	3120B			
Selenium	3120B			
Silver	3120B			
Sodium	3120B			
Thallium	3120B			
Vanadium	3120B			
Zinc	3120B			

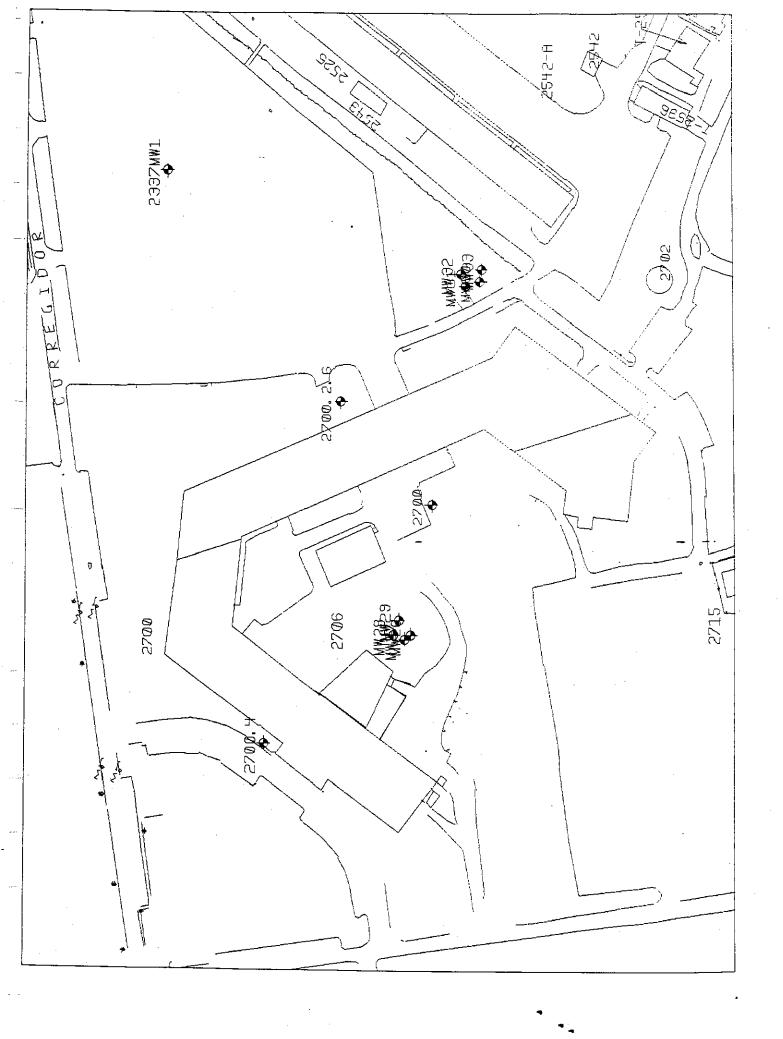
PARAMETER	REFERENCE
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136
ORGANICS	Appendix A
Base/Neutral and Acid	625
Extractables by GC/MS	
Purgeable Organics by	624
GC/MS	
Pesticide and PCB by GC	608

## Fort Monmouth Environmental Testing Laboratory

Bidg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

**Chain of Custody Record** 

Customer: J	Project No:				Analysis Parameters								Comments:	
Phone #: XA()	Location: CW2 MWs				V		22					, , , , ,		
()DERA ()OMA ()Other:		3rd Orto 199			Z	2	97	E I					HCL/HNO3/LYE	
Samplers Name / Company ; Core Mc Cormack , TUS		rus	Sample	#	Votes	Ban us	Rotples	AL MIL				8		
Lab Sample I.D.	Sample Location	Date	Time	Туре	bottles	>	2	9					Д,	Remarks / Preservation Method
4686.01	Trip	8/4 199	0730	AQ	ス	~							-	4
.02	Field Blank		1250		5	1/	~	/	<b>/</b>				-	
.03	Dope				5	~	/	1/	V				1	
.04	OCMY WM30		1252		5	1/		1	~				0.0	29 - 32594
.05	<del></del>		1254		5	~	/		~					29 - 32595
.06	<del>- </del>		1304		5	<u>~</u>		~	_					29 - 32596
.07	* O CWX MW33	V	1255	V	5	0	/	1	/					29-32 <b>5</b> 97
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Relinquished by (signature):  Date/Time:  Received by (signature):		1	Relinquished by (signature):						Time:	Received by (signature):				
Report Type: ()Full, ()Reduced, ()Standard, ()Screen / non-certified					Rema	Remarks:								
Furnaround time: (Standard 4 wks, ()Rush Days, ()ASAP Verbal Hrs.														



## U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: CW2MW030 NJDEP ID #: 29-32594 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 08/04/99

WEATHER: Sunny, Hot.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 51.71 ft

**DEPTH TO WATER: 7.43 ft**DEPTH OF WELL: 17.95 ft
HEIGHT OF WATER: 10.52 ft
(10.52) X .65 X 3 = 20.51

GALLONS OF H2O TO BE PURGED: 21 gal -

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC

PURGE RATE: 0.23 GPM Hnu READING: 0.0 PPM

**PURGE START TIME: 11:20** 

pH 6.87 su

TEMP 12.9 °C

DISSOLVED O<sub>2</sub> 6.21 PPM

SPECIFIC CONDUCTIVITY 530 us/cm

PURGE END TIME: 12:52

pH 6.87 su

TEMP 12.6 °C

DISSOLVED O<sub>2</sub> 4.11 PPM

SPECIFIC CONDUCTIVITY 531 us/cm

DEPTH TO H<sub>2</sub>O AFTER PURGE AND BEFORE SAMPLING: 10.83 ft (SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 21 gai

pH 6.82 su

TEMP 12.6 °C

DISSOLVED O<sub>2</sub> 4.07 PPM

SPECIFIC CONDUCTIVITY 530 us/cm

COMMENTS: No phases.

### U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: CW2MW031 NJDEP ID #: 29-32595 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 08/04/99

WEATHER: Sunny, Hot.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 51.58 ft

**DEPTH TO WATER: 7.65 ft**DEPTH OF WELL: 16.91 ft
HEIGHT OF WATER: 9.26 ft
(9.26) X .65 X 3 = 18.05

GALLONS OF H2O TO BE PURGED: 18 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC

PURGE RATE: 0.23 GPM Hnu READING: 0.0 PPM

**PURGE START TIME: 11:35** 

pH 6.61 su

TEMP 12.9 °C

DISSOLVED O<sub>2</sub> 6.22 PPM

SPECIFIC CONDUCTIVITY 395 us/cm

PURGE END TIME: 12:54

pH 6.59 su

TEMP 12.5 °C

DISSOLVED O<sub>2</sub> 4.29 PPM

SPECIFIC CONDUCTIVITY 395 us/cm

DEPTH TO H<sub>2</sub>O AFTER PURGE AND BEFORE SAMPLING: 9.71 ft (SAMPLING METHOD: DEDICATED (LAW NIDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 18 gal

pH 6.57 su

TEMP 12.6 °C

DISSOLVED O<sub>2</sub> 4.27 PPM

SPECIFIC CONDUCTIVITY 395 us/cm

COMMENTS: No phases.

# U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: CW2MW032 NJDEP ID #: 29-32596 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 08/04/99

WEATHER: Sunny, Hot.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 51.38 ft

DEPTH TO WATER: 7.85 ft
DEPTH OF WELL: 16.89 ft
HEIGHT OF WATER: 9.04 ft
(9.04 X .65 X 3 = 17.62

GALLONS OF H2O TO BE PURGED: 18 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC

PURGE RATE: 0.23 GPM Hnu READING: 0.0 PPM

PURGE START TIME: 11:45

pH 7.27 su

TEMP 12.8 °C

DISSOLVED O<sub>2</sub> 6.07 PPM

SPECIFIC CONDUCTIVITY 450 us/cm

PURGE END TIME: 13:04

pH 7.23 su

TEMP 12.5 °C

DISSOLVED O<sub>2</sub> 4.04 PPM

SPECIFIC CONDUCTIVITY 448 us/cm

DEPTH TO H<sub>2</sub>O AFTER PURGE AND BEFORE SAMPLING: 13.33 ft (SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 18 gal

pH 7.01 su

TEMP 12.5 °C

DISSOLVED O<sub>2</sub> 3.99 PPM

SPECIFIC CONDUCTIVITY 449 us/cm

COMMENTS: DUP. Here. No phases.

### U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: CW2MW033 NJDEP ID #: 29-32597 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 08/04/99

WEATHER: Sunny, Hot.

TIDE: N/A

ELEV. OF CASING SURVEY MARK: 51.09 ft

**DEPTH TO WATER: 9.15 ft**DEPTH OF WELL: 16.10 ft
HEIGHT OF WATER: 6.95 ft
(6.95 X .65 X 3 = 13.55

GALLONS OF H2O TO BE PURGED: 14 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 GPM): PERISTALIC

PURGE RATE: 0.23 GPM Hnu READING: 0.0 PPM

PURGE START TIME: 11:55

pH 7.22 su

TEMP 12.7 °C

DISSOLVED O<sub>2</sub> 6.17 PPM

SPECIFIC CONDUCTIVITY 376 us/cm

PURGE END TIME: 12:55

pH 7.25 su

TEMP 12.6 °C

DISSOLVED O<sub>2</sub> 4.17 PPM

SPECIFIC CONDUCTIVITY 375 us/cm

DEPTH TO H<sub>2</sub>O AFTER PURGE AND BEFORE SAMPLING: 9.46 ft (SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

pH 7.24 su

TEMP 12.7 °C

DISSOLVED O<sub>2</sub> 4.14 PPM

SPECIFIC CONDUCTIVITY 374 us/cm

COMMENTS: No phases.

# US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEPE # 13461

### **Definition of Qualifiers**

MDL: Method Detection Limit

: Compound identified below detection limit

B : Compound in both sample and blank

D : Results from dilution of sample

U: Compound searched for but not detected

Data File

VC000646.D

Skelton

Sample Name

Vblk20

Operator

Field ID

Vblk20

Date Acquired

11 Aug 1999 11:06 am

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	<b></b>
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nlė	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1.1-Dichloroethane		<del>-</del>	not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone		<del></del>	not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform		<u> </u>	not detected	6	0.30 ug/L	···
75-55-6	1,1,1-Trichloroethane		<del> </del>	not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene		j	not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	· · ·		not detected	1	0.23 ug/L	
78-87-5	1.2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nie	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	·
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	- "
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

### VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

		TENTATI	VELY IDENT	IFIED COMPOUN	iDS		
Lab Name:	FMETL			NJDEP#: _1	3461	Vblk20	
Project:	LTM	Cas	se No.: <u>4686</u>	Location:	CW2 S	DG No.:	
Matrix: (soil/w	vater)	WATER	· -	Lab S	Sample ID:	Vblk20	
Sample wt/vo	ol:	5.0	(g/ml) ML	Lab f	File ID:	VC000646.D	
Level: (iow/m	ned)	LOW		Date	Received:	8/4/99	
% Moisture: r	not dec.			Date	Analyzed:	8/11/99	
GC Column:	RTX50	02. ID: <u>0.2</u>	25 (mm)	Diluti	on Factor:	1.0	
Soil Extract V	olume:		_ (uL)	Soil A	Aliquot Volu	me:	(uL)
Number TICs	found:	0		CONCENTRATIC (ug/L or ug/Kg)	ON UNITS: UG/L		

RT

EST. CONC.

Q

COMPOUND NAME

CAS NO.

Data File

VC000648.D

Operator

Skelton

Date Acquired 11 Aug 1999 1:29 pm

Sample Name

4686.01

Field ID

Trip Blank

Sample Multiplie  ${f 1}$ 

107028   Acrolein	CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifier
T5650   tert-Butv  alcohol   not detected   ale   8.52 ug/L     1634044   Methyl-tert-Butv  ether   not detected   ale   0.16 ug/L     108203   Di-isoprosyl ether   not detected   ale   0.15 ug/L     T48-37   Di-isoprosyl ether   not detected   ale   1.68 ug/L     T48-37   Chloromethane   not detected   30   1.16 ug/L     T5-01-4   Vinv  Chloride   not detected   30   1.16 ug/L     T5-01-4   Vinv  Chloride   not detected   30   1.16 ug/L     T6-83-9   Brommethane   not detected   30   1.16 ug/L     T6-83-9   Trichloromethane   not detected   10   1.10 ug/L     T5-80-4   Trichloromethane   not detected   ale   0.50 ug/L     T5-80-4   Trichloromethane   not detected   ale   0.50 ug/L     T5-80-4   Trichloromethane   not detected   not detected   not   0.50 ug/L     T5-15-0   Carbon Disulfide   not detected   not   0.24 ug/L     T6-64-1   Acetone   not detected   not   0.46 ug/L     T6-69-5   rans-1-2-Dichloromethane   not detected   not   0.16 ug/L     T6-69-5   rans-1-2-Dichloromethane   not   0.16 ug/L     T6-69-5   rans-1-2-Dichloromethane   not   0.16 ug/L     T6-69-5   rans-1-2-Dichloromethane   not   0.16 ug/L     T6-69-3   Chloromethane   not   0.16 ug/L     T6-69-3   Chloromethane   not   0.16 ug/L     T6-69-3   Chloromethane   not   0.10 ug/L     T6-69-3   Chloromethane   not   0.10 ug/L     T7-55-56   Chloromethane   not   0.10 ug/L     T7-55-56   Chloromethane   not   0.10 ug/L     T7-55-56   Chloromethane   not   0.10 ug/L     T7-55-56   Chloromethane   not   0.10 ug/L     T7-57-57-58   Chloromethane   not   0.10 ug/L     T7-57-59-6   Chloromethane   not   0.10 ug/L     T7-57-59-6   Chloromethane   not   0.10 ug/L     T7-57-59-6   Chloromethane   not   0.10 ug/L     T7-57-59-6   Chloromethane   not   0.10 ug/L     T7-57-59-6   Chloromethane   not   0.10 ug/L     T7-57-70-70-70-70-70-70-70-70-70-70-70-70-70	107028	Acrolein	T	l	not detected	50	1.85 ug/L	
1634044   Methyl-ter-Butyl ether   not detected   nel   0.16 ug/L	107131	Acrylonitrile			not detected	50	2.78 ug/L	
1634044   Methyl-tert-Bulyl other	75650	tert-Butyl alcohol			not detected	nle		
108203   Di-isopropyl ether	1634044	Methyl-tert-Butyl ether						
Dichlorodifluoromethane	108203	Di-isopropyl ether				<del>" </del>		
1.48.73   Chloromethane		Dichlorodifluoromethane				1		
A-83-9   Bromomethane	74-87-3	Chloromethane			not detected	30		
75-09-3	75-01-4	Vinyl Chloride	1		not detected	5	1.06 ug/L	
75-09-3	74-83-9	Bromomethane			not detected	10	1.10 ug/L	T
75-69-4   Trichlorothoromethane   not detected   10-050 ug/L	75-00-3	Chloroethane	L '		not detected	nle		
1.1-Dichloroethene	75-69-4	Trichlorofluoromethane			not detected	7		
67-64-1   Actone	75-35-4	1,1-Dichloroethene			not detected	2		
75-15-0	67-64-1	Acetone			not detected	700		
75-09-2   Methylene Chloride	75-15-0	Carbon Disulfide			<del></del>	1		İ
156-60-5   trans-1,2-Dichloroethene   not detected   100   0.16 ug/L	75-09-2	Methylene Chloride			T	1		
75-35-3   1.1-Dichloroethane   not detected   70   0.12 ug/L	156-60-5		1					
108-05-4   Vinyl Acetate	75-35-3							
78-93-3   2-Butanone   not detected   300   0.62 ug/L	108-05-4	Vinyl Acetate		1		1		
Cis-1,2-Dichloroethene   not detected   10   0.17 ug/L	78-93-3							<del></del>
67-66-3   Chloroform		<u> </u>			***************************************			
75-55-6	67-66-3			1				
S6-23-5   Carbon Tetrachloride   not detected   2   0.47 ug/L								
71-43-2         Benzene         not detected         1         0.23 ug/L           107-06-2         1,2-Dichloroethane         not detected         2         0.18 ug/L           79-01-6         Trichloroethene         not detected         1         0.23 ug/L           78-87-5         1,2-Dichloropropane         not detected         1         0.40 ug/L           75-27-4         Bromodichloromethane         not detected         1         0.55 ug/L           110-75-8         2-Chloroethyl vinyl ether         not detected         nle         0.65 ug/L           10061-01-5         cis-1,3-Dichloropropene         not detected         nle         0.69 ug/L           108-88-3         Toluene         not detected         1000         0.59 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         1000         0.37 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         nle         0.87 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         1         0.32 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.32 ug/L           126-48-1         Dibromochloromethane         not detected         1         0.32 ug/L	56-23-5				†			
107-06-2   1,2-Dichloroethane   not detected   2   0.18 ug/L	71-43-2	<del></del>				<del>                                     </del>		
79-01-6         Trichloroethene         not detected         1         0.23 ug/L           78-87-5         1,2-Dichloropropane         not detected         1         0.40 ug/L           75-27-4         Bromodichloromethane         not detected         1         0.55 ug/L           110-75-8         2-Chloroethyl vinyl ether         not detected         nle         0.65 ug/L           10061-01-5         cis-1,3-Dichloropropene         not detected         nle         0.69 ug/L           108-10-1         4-Methyl-2-Pentanone         not detected         400         0.59 ug/L           108-88-3         Toluene         not detected         1000         0.37 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         nle         0.87 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         nle         0.87 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.32 ug/L           591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           126-48-1         Dibromochloromethane         not detected         nle         0.71 ug/L           1330-20-7         Chlorobenzene         not detected         10         0.86 ug/	107-06-2	1,2-Dichloroethane		Ï	<u> </u>	<del>   </del>		
78-87-5         1,2-Dichloropropane         not detected         1         0.40 ug/L           75-27-4         Bromodichloromethane         not detected         1         0.55 ug/L           110-75-8         2-Chloroethyl vinyl ether         not detected         nle         0.65 ug/L           10061-01-5         cis-1,3-Dichloropropene         not detected         nle         0.69 ug/L           108-10-1         4-Methyl-2-Pentanone         not detected         400         0.59 ug/L           108-88-3         Toluene         not detected         1000         0.37 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         nle         0.87 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         0.48 ug/L           127-18-4         Tetrachloroethane         not detected         1         0.32 ug/L           591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           108-90-7         Chlorobenzene         not detected         10         0.86 ug/L           108-90-7         Chlorobenzene         not detected         nle         0.71 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L	79-01-6	Trichloroethene	i		† ·	T		
75-27-4         Bromodichloromethane         not detected         1         0.55 ug/L           110-75-8         2-Chloroethyl vinyl ether         not detected         nle         0.65 ug/L           10061-01-5         cis-1,3-Dichloropropene         not detected         nle         0.69 ug/L           108-10-1         4-Methyl-2-Pentanone         not detected         1000         0.37 ug/L           108-88-3         Toluene         not detected         1000         0.37 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         nle         0.87 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         0.48 ug/L           127-18-4         Tetrachloroethane         not detected         1         0.32 ug/L           591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           102-48-1         Dibromochloromethane         not detected         10         0.86 ug/L           100-41-4         Ehylbenzene         not detected         4         0.39 ug/L           1330-20-7         m-p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L </td <td>78-87-5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	78-87-5							
110-75-8   2-Chloroethyl vinyl ether   not detected   nie   0.65 ug/L	75-27-4					<del></del>		
10061-01-5         cis-1,3-Dichloropropene         not detected         nle         0.69 ug/L           108-10-1         4-Methyl-2-Pentanone         not detected         400         0.59 ug/L           108-88-3         Toluene         not detected         1000         0.37 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         nle         0.87 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         0.48 ug/L           127-18-4         Tetrachloroethane         not detected         1         0.32 ug/L           591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           126-48-1         Dibromochloromethane         not detected         10         0.86 ug/L           108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         nle         1.14 ug/L           1330-20-7         m-p-Xylenes         not detected         nle         1.14 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L	110-75-8				<del> </del>			
108-10-1   4-Methyl-2-Pentanone   not detected   400   0.59 ug/L	10061-01-5							
108-88-3   Toluene	108-10-1		i		T			
10061-02-6         trans-1,3-Dichloropropene         not detected         nie         0.87 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         0.48 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.32 ug/L           591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           126-48-1         Dibromochloromethane         not detected         10         0.86 ug/L           108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         75         0.57 ug/L	108-88-3	<del></del>						_
79-00-5         1,1,2-Trichloroethane         not detected         3         0.48 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.32 ug/L           591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           126-48-1         Dibromochloromethane         not detected         10         0.86 ug/L           108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         75         0.57 ug/L	10061-02-6	trans-1,3-Dichloropropene			1			
127-18-4         Tetrachloroethene         not detected         1         0.32 ug/L           591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           126-48-1         Dibromochloromethane         not detected         10         0.86 ug/L           108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         75         0.57 ug/L	79-00-5			1				
591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           126-48-1         Dibromochloromethane         not detected         10         0.86 ug/L           108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         75         0.57 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         75         0.57 ug/L	127-18-4	Tetrachloroethene			<del></del>			
126-48-1         Dibromochloromethane         not detected         10         0.86 ug/L           108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         75         0.57 ug/L	591-78-6	2-Нехапопе						
108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         75         0.57 ug/L	126-48-1							
100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         75         0.57 ug/L	108-90-7	Chlorobenzene		1	T			
1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         75         0.57 ug/L		Ethylbenzene		<u></u>				
1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         75         0.57 ug/L	1330-20-7	m+p-Xylenes						
100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         75         0.57 ug/L	Ì							
75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         75         0.57 ug/L	100-42-5							
79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         75         0.57 ug/L								
541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L           106-46-7         1,4-Dichlorobenzene         not detected         75         0.57 ug/L								
106-46-7 1,4-Dichlorobenzene not detected 75 0.57 ug/L								
13 0.3, 45,0								
95-50-1 (1,2-Dichlorobenzene not detected 600 0.64 ug/L	95-50-I	1,2-Dichlorobenzene			not detected			

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

		TENTATI	VELY IDEN	TIFIED COMP	POUNDS	3		
_ab Name:	FMETL			NJDEF	P#: <u>134</u>	61	Trip Blar	ık
Project:	LTM	Cas	se No.: <u>468</u>	6Loca	ation: C	W2 \$	DG No.:	
Matrix: (soil/v	water)	WATER	-		Lab Sar	mple ID:	4686.01	
Sample wt/vo	ol:	5.0	(g/ml) ML		Lab File	D:	VC000648.D	_
evel: (low/n	ned)	LOW			Date Re	eceived:	8/4/99	_
% Moisture: ı	not dec.				Date An	alyzed:	8/11/99	
GC Column:	RTX50	02. ID: <u>0.2</u>	5 (mm)		Dilution	Factor:	1.0	<del>_</del>
Soil Extract V	/olume:		_ (uL)		Soil Aliq	juot Volu	me:	_ (uL)
				CONCENTE	RATION	UNITS:		
Number TICs	found:	1	-	(ug/L or ug/l	<b>(</b> g)	UG/L	·	

RT

30.86

EST. CONC.

Q

**COMPOUND NAME** 

Naphthalene

CAS NO.

1. 000091-20-3

Data File

VC000649.D

Operator Skelton

Sample Name 4686.02

Field ID

Field Blank

Date Acquired

11 Aug 1999 2:11 pm

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nie	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane	<u> </u>		not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	·-··
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate		1	not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane	,	1	not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene		Ι.	not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	******
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nie	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	<del></del>
10061-02-6	trans-1,3-Dichloropropene		· .	not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0,56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95- <u>50</u> -1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	EL	.D	ID	:
_				

Lab Name:	FMETL			NJ	DEP#: 13461		Field B	lank
Project:	LTM	Cas	se No.: 468	6	ocation: CW2	SE	OG No.:	
Matrix: (soil/	water)	WATER	_		Lab Sampi	e ID:	4686.02	
Sample wt/ve	ol:	5.0	(g/ml) ML		Lab File ID	:	VC000649.D	
Level: (low/r	med)	LOW :			Date Rece	ved:	8/4/99	
% Moisture:	not dec.				Date Analy	zed: {	B/11/99	
GC Column:	RTX5	02. ID: <u>0.2</u>	25 (mm)		Dilution Fa	ctor:	1.0	
Soil Extract \	/olume:		_ (uL)		Soil Aliquo	Volun	ne:	(uL)
Number TICs	s found:	0	_	CONCE (ug/L or	NTRATION UN ug/Kg) <u>UG</u>			
CAS NO.		COMPOU	ND NAME		RT	EST	r. conc.	Q

Data File Operator

Date Acquired

VC000650.D

Skelton

11 Aug 1999 2:54 pm

Sample Name Field ID

4686.03 Duplicate

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifier
107028	Acrolein			not detected	50	1.85 ug/L	T
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol		1	not detected	nle	8.52 ug/L	1
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane		l	not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nie	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1.2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	· · · · · ·		not detected	1	0.23 ug/L	
78-87-5	1.2-Dichloropropage			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1 I	0.32 ug/L	
591-78-6	2-Hexanone		-	not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene	i		not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes	_		not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1.4-Dichlorobenzene			not detected	75	0.57 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

**COMPOUND NAME** 

CAS NO.

### VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

		TENTATI	VELY IDENTI	FIED COMPOL	INDS	_	
Lab Name:	FMETL			NJDEP#:	13461	Dupe	
Project:	LTM	Cas	se No.: 4686	Location	: <u>CW2</u> S	DG No.:	
Matrix: (soil/v	vater)	WATER	_	Lab	Sample ID:	4686.03	
Sample wt/vo	ol:	5.0	(g/ml) ML	Lab	File ID:	VC000650.D	_
Level: (low/n	ned)	LOW	•	Dat	e Received:	8/4/99	_
% Moisture: r	not dec.			Dat	e Analyzed:	8/11/99	_
GC Column:	RTX50	<u>02.</u> ID: <u>0.2</u>	25 (mm)	Dilu	tion Factor:	1.0	
Soil Extract V	olume:		_ (uL)	Soil	Aliquot Volu	ıme:	(uL)
				CONCENTRAT	ION UNITS:		
Number TICs	found:	0	_	ug/L or ug/Kg).	UG/L	·	

RT

EST. CONC.

Q

Data File

VC000651.D

Operator

Skelton

Date Acquired 11 Aug 1999 3:35 pm

Sample Name

4686.04

Field ID

0CW2MW30

Sample Multiplie  ${f 1}$ 

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein	<b>.</b>		not detected	50	1.85 ug/L	
107131	Acrylonitrile	1		not detected	50	2.78 ug/L	ļ
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	<u> </u>	<u> </u>	not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane		ļ <u></u>	not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane	_		not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene	<u> </u>		not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate	]		not detected	nle	0.78 ug/L	
78-93-3	2-Butanone	1	1	not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene		1	not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane	Ì		not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether		<u> </u>	not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nie	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene	1		not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nie	0.71 ug/L	
126-48-1	Dibromochloromethane		_	not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	-
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene		1	not detected	100	0.56 ug/L	
75-25-2	Bromoform		<u> </u>	not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.70 ug/L 0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.47 ug/L 0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	- 13	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

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E = Value above linear range

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PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

### VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVE VIDENTIFIED COMPOLINDS

FIELD ID:

		TENTAT	IVELY IC	PENTIFIE	COMPOL	JNDS			
Lab Name:	FMETL				NJDEP#:	13461		0CW2MW3	30
Project:	LTM.	Ca	se No.:	4686	Location	n: CW2	SD	G No.:	
Matrix: (soil/v	vater)	WATER			Lat	Sample I	D: 4	1686.04	
Sample wt/vo	ol:	5.0	(g/ml)	ML	Lab	File ID:	<u>\</u>	/C000651.D	_
Level: (low/n	ned)	LOW	_		Dat	te Receive	d: <u>8</u>	3/4/99	
% Moisture: r	not dec.		<del></del>		Dat	te Analyze	d: <u>8</u>	3/11/99	_
GC Column:	RTX50	02. ID: <u>0.</u>	25_ (m	m)	Dilu	ition Facto	r: <u>1</u>	.0	_
Soil Extract V	/olume:		_ (uL)		Soi	l Aliquot V	olum	ne:	(uL)
Number TiCs	s found;	0			ICENTRAT _ or ug/Kg)	ION UNIT	S:		·

RT

EST. CONC.

Q

COMPOUND NAME

CAS NO.

Data File

VC000652.D

Operator Skelton

Sample Name 4686.05

Field ID

0CW2MW31

Date Acquired

11 Aug 1999 4:17 pm

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	T.
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nie	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	, .		not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene	· -		not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	ale	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene		<del></del>	not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	1		not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
<u>106-46-7</u>	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FI	EL	.D	ID	:

Lab Name:	FMETL		NJI	DEP#: 13461		UC W ZIVI	//31
Project:	LTM	Case No.: 4	686 L	ocation: CW2	OG No.:		
Matrix: (soil/	water)	WATER		Lab Sample	ID: 4	4686.05	
Sample wt/vo	ol:	5.0 (g/ml) <u>Market</u>	VIL	Lab File ID:	_	VC000652.D	
Level: (low/r	ned)	LOW		Date Receiv	/ed: _8	3/4/99	
% Moisture:	not dec.			Date Analyz	ed: 8	3/11/99	<u> </u>
GC Column:	RTX5	02. ID: <u>0.25</u> (mm	١)	Dilution Fac	tor:	1.0	<u></u>
Soil Extract \	/olume:	(uL)		Soil Aliquot	Volun	ne:	(uL)
N			CONCEI	NTRATION UNI ug/Kg) UG/			
Number TICs	s found:			<del>- ".</del>			
CAS NO.		COMPOUND NAME	Ë	RT	EST	CONC.	Q

Data File

VC000653.D

Operator Skelton

Sample Name 4686.06

Field ID

0CW2MW32

Date Acquired

11 Aug 1999 4:59 pm

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol		<u> </u>	not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	-2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	I,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	*
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene	Ï		not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591- <u>78</u> -6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	_
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene	T		not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nie	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50 <b>-</b> 1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established

### VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

		IENIAI				
Lab Name:	FMETL			NJDEP#: 13461	0CW2MW	32
Project:	LTM	Ca	se No.: <u>4686</u>	Location: CW2 5	SDG No.:	
Matrix: (soil/	water)	WATER	_	Lab Sample ID	4686.06	
Sample wt/ve	ol:	5.0	(g/ml) ML	Lab File ID:	VC000653.D	
Level: (low/r	ned)	LOW	<del>-</del>	Date Received:	8/4/99	_
% Moisture:	not dec.			Date Analyzed:	8/11/99	_
GC Column:	RTX5	02. ID: <u>0.</u>	25 (mm)	Dilution Factor:	1.0	
Soil Extract \	Volume:		_ (uL)	Soil Aliquot Vol	ume:	(uL)
			CC	NCENTRATION UNITS:		
Number TICs	s found:	0	- 	J/L or ug/Kg) UG/L	<del></del>	
				. ү		

RT

EST. CONC.

**COMPOUND NAME** 

CAS NO.

Data File

VC000654.D

Sample Name Field ID

4686.07

0CW2MW33

Operator

Date Acquired

Skelton

11 Aug 1999 5:41 pm

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	<u> </u>
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	nle	0.16 ug/L	<u> </u>
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride	-		not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane		<u> </u>	not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane	·		not detected	nle	0.50 ug/L	
75-35-4	1.1-Dichloroethene			not detected	2	0.24 ug/L	<del>-</del>
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	<del>                                     </del>
75-09-2	Methylene Chloride			not detected	2	0.40 ug/L 0.24 ug/L	<b> </b>
156-60-5	trans-1.2-Dichloroethene			not detected	100	0.16 ug/L	<del>                                     </del>
75-35-3	1.1-Dichloroethane			not detected	70	0.10 ug/L 0.12 ug/L	<del> </del> -
108-05-4	Vinyl Acetate		-	not detected	<del></del>	0.12 ug/L 0.78 ug/L	ļ <u>.</u>
78-93-3	2-Butanone			not detected	nle	0.78 ug/L 0.62 ug/L	L
70 35 5	cis-1,2-Dichloroethene			not detected	300		
67-66-3	Chloroform			not detected	10	0.17 ug/L 0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	6		
56-23-5	Carbon Tetrachloride			not detected	30	0.23 ug/L	
71-43-2	Benzene				2	0.47 ug/L	
107-06-2	1,2-Dichloroethane			not detected	1	0.23 ug/L	
79-01-6				not detected	2	0.18 ug/L	
78-87-5	Trichloroethene			not detected	1	0.23 ug/L	
75-27-4	1,2-Dichloropropane			not detected	1	0.40 ug/L	
110-75-8	Bromodichloromethane			not detected	1 1	0.55 ug/L	
10061-01-5	2-Chloroethyl vinyl ether		·	not detected	nle	0.65 ug/L	
108-10-1	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone Toluene			not detected	400	0.59 ug/L	
10061-02-6	trans-1,3-Dichloropropene		· · · · · · · · · · · · · · · · · · ·	not detected	1000	0.37 ug/L	
79-00-5	1.1.2-Trichloroethane		<del></del>	not detected	nle	0.87 ug/L	
127-18-4	Tetrachloroethene		·	not detected	3	0.48 ug/L	
591-78-6	2-Hexanone		<del></del>  -	not detected	1t-	0.32 ug/L	
126-48-1	Dibromochloromethane			not detected	nle	0.71 ug/L	
108-90-7	Chlorobenzene	·	<del></del>	not detected not detected	10	0.86 ug/L	
100-41-4	Ethylbenzene				4 500	0.39 ug/L	
1330-20-7	m+p-Xylenes			not detected	700	0.65 ug/L	
1330-20-7				not detected	nle	1.14 ug/L	
	o-Xylene			not detected	nle	0.62 ug/L	<del></del>
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform		<del> -</del> -	not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	[
106-46-7	1,4-Dichlorobenzene		<del></del>	not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene		OL's and Ground Water	not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	FIELD ID:
	0CW2MW33
_	

Lab Name:	FMETL		NJDEI	P#: <u>13461</u>		OCW2M	W33
Project:	LTM	Case No.:	4686 Loca	ation: CW2	G No.:	·	
Matrix: (soil/	water)	WATER		Lab Sample	e ID: 4	686.07	
Sample wt/vo	ol:	5.0 (g/ml)	ML	Lab File ID:	: <u>\</u>	/C000654.D	
Level: (low/r	med)	LOW		Date Recei	ved: 8	3/4/99	
% Moisture:	not dec.			Date Analyz	zed: <u>8</u>	3/11/99	<u>.</u> _
GC Column:	RTX5	<u>02.</u> ID: <u>0.25</u> (m	nm)	Dilution Fac	etor: <u>1</u>	.0	<del></del>
Soil Extract \	/olume:	(uL)	(uL) Soil Aliquot Volume				(uL)
Number TICs	s found:	0	CONCENTI (ug/L or ug/	RATION UN Kg) <u>UG</u>			·
CAS NO.		COMPOUND NAM	ME	RT	EST	. CONC.	Q

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

### **NJDEP Certification #13461**

Data File Name BNA03137.D Operator

Date Acquired

Bhaskar 6-Aug-99 Sample Name

Sblk283

Misc Info

Sblk283 A 990805

Sample Multiplier

					Regulatory Level	,		
CAS#	Name	R.T.	Response	Result	(ng/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	<u> </u>
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol	-		not detected	4000	0.82	ug/L	<u> </u>
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not_detected	40	2.00	ug/L	
<u>541-73</u> -1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene		· · · · · · · · · · · · · · · · · · ·	not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50		
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100		ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33		
65-85-0	Benzoic Acid			not detected	NLE	1.75		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22		
91-20-3	Naphthalene			not detected	NLE	1.27		
106-47-8	4-Chloroaniline			not detected	NLE	1.09		
87-68-3	Hexachlorobutadiene			not detected	1	0.71		
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39		
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	_	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32		<del> </del>
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78		
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28		
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01		
88-74-4	2-Nitroaniline			not detected	NLE	0.96		
131-11-3	Dimethylphthalate			not detected	7000	1.52		
208-96-8	Acenaphthylene			not detected	NLE	0.96		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81		
99-09-2	3-Nitroaniline			not detected	NLE	0.79		
83-32-9	Acenaphthene			not detected	400	1.10	_	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44		
132-64-9	Dibenzofuran			not detected	NLE	1.00		
100-02-7	4-Nitrophenol		_	not detected	NLE	1.06		

### Semi-Volatile Analysis Report Page 2

Data File Name

BNA03137.D

Operator

Bhaskar

Date Acquired

6-Aug-99

Sample Name

Sblk283

Misc Info

Sbik283 A 990805

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	****		
121-14-2	2,4-Dinitrotoluene	T	Kespouse	not detected	10	MDL	ug/L	Qualifiers
84-66-2	Diethylphthalate			not detected	5000			
86-73-7	Fluorene	1		not detected	300	1.62	<del>''''</del>	<u> </u>
7005-72-3	4-Chlorophenyl-phenylether	1 -		not detected	NLE		ug/L ug/L	
100-01-6	4-Nitroaniline	1 1		not detected	NLE		ug/L ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	<u> </u>		not detected	NLE		ug/L ug/L	<u> </u>
86-30-6	n-Nitrosodiphenylamine	1		not detected	20		ug/L	
103-33-3	Azobenzene	1 1		not detected	NLE		ug/L ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE		ug/L	
118-74-1	Hexachlorobenzene			not detected	10		ug/L	
87-86-5	Pentachlorophenol			not detected	1		ug/L	
85-01-8	Phenanthrene	1 1		not detected	NLE		ug/L	
120-12-7	Anthracene			not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate			not detected	900		ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	-4-3	
92-87-5	Benzidine			not detected	50	4.18		
129-00-0	Рутепе	1 1		not detected	200	1.25		
85-68-7	Butylbenzylphthalate			not detected	100	1.05		
56-55-3	Benzo[a]anthracene			not detected	10	1.19		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75		
218-01-9	Chrysene			not detected	20	1.38		
<u>117-81-7</u>	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene	<u> </u>		not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29		
50-32-8	Benzo[a]pyrene	$\bot$		not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	<u> </u>		not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

Page 2 of 2

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

30

Lab Name:	FMETL			Lab Co	de 1346 <sup>.</sup>	1	Sblk2	283
Project	98-021	L Cas	e No.: 4686	Loca	tion CW	2S	DG No.:	
Matrix: (soil/	water)	WATER			Lab Samp	ole ID:	Sblk283	· · · · ·
Sample wt/v	ol:	1000	(g/ml) ML		Lab File II	<b>)</b> :	BNA03137.E	)
Level: (low/r	med)	LOW			Date Rec	eived:	8/4/99	
% Moisture:		deca	nted: (Y/N)	_N	Date Extra	acted:	8/5/99	
Concentrated	d Extract	Volume: 1	000 (uL)		Date Anai	yzed:	8/6/99	
Injection Vol	ume: <u>1.</u> 6	0 (uL)			Dilution Fa	actor:	1.0	
GPC Cleanu	p: (Y/N)	t	θH: <u>7</u>					
				CONCE	NTRATIO	N UNI	TS:	
Number TICs	s found:	2		(ug/L or	ug/Kg)	UG/	<u> </u>	
CAS NUME	BER	COMPOU	ND NAME		RT	ES	T. CONC.	Q
1.		unknown		,	6.27		18	J

2.

unknown

9.12

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

**NJDEP Certification #13461** 

Data File Name

BNA03139.D

Sample Name

4686.02

Operator

Bhaskar

Misc Info

Field Blank

Date Acquired

6-Aug-99

Sample Multiplier

CAS#	Name	ውጥ	Pagnango	Possilé	Regulatory Level (ug/L)*			
110-86-1	Pyridine	R.T.	Response	Result not detected	NLE	MDL 1 02		Qualifiers
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L ug/L	<del></del> -
62-53-3	Aniline			not detected	NLE		ug/L	
108-95-2	Phenol			not detected	4000		ug/L	<del></del>
111-44-4	bis(2-Chloroethyl)ether			not detected	10		ug/L	
95-57-8	2-Chlorophenol	<u> </u>		not detected	40		ug/L ug/L	
541-73-1	1,3-Dichlorobenzene	<del>                                     </del>		not detected	600		ug/L	
106-46-7	1,4-Dichlorobenzene	1		not detected	75		ug/L	
100-51-6	Benzyl alcohol			not detected	NLE		ug/L	<u></u>
95-50-1	1.2-Dichlorobenzene			not detected	600		ug/L	
95-48-7	2-Methylphenol			not detected	NLE		ug/L	
108-60-1	bis(2-chloroisopropyl)ether		· ·	not detected	300		ug/L	
106-44-5	4-Methylphenol	*† †		not detected	NLE		ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80		
67-72-1	Hexachloroethane			not detected	10	1.50		
98-95-3	Nitrobenzene	1 1		not detected	10		ug/L	
78-59-1	Isophorone			not detected	100	1.01		
88-75 <b>-</b> 5	2-Nitrophenol		i i	not detected	NLE	1.92		
105-67-9	2,4-Dimethylphenol			not detected	100	2.62		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21		
120-83-2	2,4-Dichlorophenol		i i	not detected	20	1.33		
65-85-0	Benzoic Acid			not detected	NLE	1.75		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22		
91-20-3	Naphthalene			not detected	NLE	1.27		
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	·
87-68-3	Hexachlorobutadiene			not detected	11	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91 <u>-57</u> -6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	<u>50</u>	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol	<u> </u>		not detected	20	1.78	ug/L	
<u>95-95-4</u>	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene	1		not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene	<u> </u>		not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline	$oxed{oxed}$		not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene	$\perp$		not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran	$\sqcup \bot$		not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol	<u>l</u>		not detected	NLE	1.06	ug/L	

### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BNA03139.D

Operator

Bhaskar 6-Aug-99 Sample Name

4686.02

Misc Info

Field Blank

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		0
121-14-2	2,4-Dinitrotoluene	T	Response	not detected	10		ug/L	Qualifiers
84-66-2	Diethylphthalate			not detected	5000		ug/L	
86-73 <b>-</b> 7	Fluorene			not detected	300		ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE		ug/L	
100-01-6	4-Nitroaniline			not detected	NLE		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE		ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20		ug/L	
103-33-3	Azobenzene			not detected	NLE		ug/L	
101-55-3	4-Bromophenyi-phenylether			not detected	NLE		ug/L	
118-74-1	Hexachlorobenzene			not detected	10		ug/L	
<del>87-</del> 86-5	Pentachlorophenol			not detected	1		ug/L	
85-01-8	Phenanthrene			not detected	NLE		ug/L	
120-12-7	Anthracene			not detected	2000	1.12		
84-74-2	Di-n-butylphthalate			not detected	900		ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05		
<u>56-55-3</u>	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01 <b>-</b> 9	Chrysene			not detected	20	1.38		
<u>117-81-7</u>	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25		
207-08 <b>-9</b>	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

### 1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL		Lab Co	de <u>13461</u>		Field E	Blank 
Project	98-0211	Case No.: 4686	Loca	ation CW2	SI	DG No.:	
Matrix: (soil/	water)	WATER		Lab Sampl	e ID:	4686.02	
Sample wt/v	ol:	1000 (g/ml) ML	<u>.                                    </u>	Lab File ID	:	BNA03139.	)
Level: (low/r	med)	LOW		Date Recei	ved:	8/4/99	
% Moisture:		decanted: (Y/N) _	N	Date Extra	cted:	8/5/99	
Concentrate	d Extract	Volume: <u>1000</u> (uL)		Date Analy	zed:	8/6/99	
Injection Vol	ume: <u>1.0</u>	) (uL)		Dilution Fa	ctor:	1.0	
GPC Cleanu	p: (Y/N)	<u>N</u> pH: <u>7</u>					
			CONCE	NTRATION	דואט ו	S:	
Number TICs	s found:	2	(ug/L or	ug/Kg)	UG/L	-	
CAS NUME	BER	COMPOUND NAME		RT	ES	T. CONC.	Q
1		unknown		6.26		21	1

unknown

9.11

### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BNA03140.D

Sample Name

4686.03

Operator

Date Acquired

Bhaskar 6-Aug-99 Misc Info

Dupe

Sample Multiplier

1.15

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*			
110-86-1	Pyridine	T.1.	Response	not detected	NLE	MDL 2.10	a	Qualifiers
62-75-9	N-nitroso-dimethylamine	1		not detected	20	1.05		<del> </del>
62-53-3	Aniline Aniline	-		not detected	NLE	1.87		<del>                                     </del>
108-95-2	Phenol	<del>                                     </del>		not detected	4000	0.94		ļ <u> </u>
111-44-4	bis(2-Chloroethyl)ether	1		not detected	1			
95-57-8	2-Chlorophenol			not detected	10 40	1.47	****	<del> </del>
541-73-1	1,3-Dichlorobenzene			not detected	600	2.30 1.39		<del>                                     </del>
106-46-7	1,4-Dichlorobenzene	1 1	· · · · · · · · · · · · · · · · · · ·	not detected	75			
100-51-6	Benzyl alcohol			not detected	NLE		ug/L	<del></del>
95-50-1	1,2-Dichlorobenzene	<del>                                     </del>	<del>' .</del>		600		ug/L	
95-48-7	2-Methylphenol	1		not detected	NLE	1.30		<del> </del>
108-60-1	bis(2-chloroisopropyl)ether				300		ug/L	! 
106-44-5	4-Methylphenol	1		not detected not detected		1.60		
621-64-7	n-Nitroso-di-n-propylamine			not detected	NLE 20		ug/L	
67-72-1	Hexachloroethane	+ -		not detected	20 10		ug/L	
98-95-3	Nitrobenzene	<del>                                     </del>		· · · · · · · · · · · · · · · · · · ·	10		ug/L	
78-59-1	Isophorone	<del>                                     </del>	•	not detected not detected	100		ug/L	
88-75-5	2-Nitrophenol	† †		not detected	NLE		ug/L	<u></u> .
105-67-9	2,4-Dimethylphenol	1 1		not detected	100		ug/L	
111-91-1	bis(2-Chloroethoxy)methane	1-1	<del>*************************************</del>	not detected	NLE	3.01 1 1.39 1		
120-83-2	2,4-Dichlorophenol	<del>                                     </del>		not detected	20	1.53		
65-85-0	Benzoic Acid	1 1		not detected	NLE	2.01		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.40		
91-20-3	Naphthalene	1		not detected	NLE	1.46		
106-47-8	4-Chloroaniline			not detected	NLE	1.25		
87-68-3	Hexachlorobutadiene			not detected	1	0.82		
59-50-7	4-Chloro-3-methylphenol	1		not detected	NLE	1.60		<del></del>
91-57-6	2-Methylnaphthalene			not detected	NLE	1.24		**
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.52		
88-06-2	2,4,6-Trichlorophenol			not detected	20	2.05		
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.47 t	$\overline{}$	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.16 u		
88-74-4	2-Nitroaniline			not detected	NLE	1.10 t		
131-11-3	Dimethylphthalate			not detected	7000	1.75 u		
208-96-8	Acenaphthylene			not detected	NLE	1.10 u		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.93 u		
99-09-2	3-Nitroaniline	1 1		not detected	NLE	0.91 u		
83-32-9	Acenaphthene			not detected	400	1.27 u		,
51-28-5	2,4-Dinitrophenol			not detected	40	1.66 u		
132-64-9	Dibenzofuran			not detected	NLE	1.15 u		
100-02-7	4-Nitrophenol			not detected	NLE	1.22 u		

### Semi-Volatile Analysis Report Page 2

Data File Name

BNA03140.D

Operator

Date Acquired

50-32-8

193-39-5

53-70-3

191-24-2

Bhaskar

6-Aug-99

Sample Name

4686.03

Misc Info

Dupe

Sample Multiplier

1.15

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.00 ug	
84-66-2	Diethylphthalate			not detected	5000	1.86 ug	ı
86-73-7	Fluorene			not detected	300	1.14 ug	ı
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.27 ug/	L
100-01-6	4-Nitroaniline			not detected	NLE	1.21 ug	L
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.28 ug	L
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.16 ug/	
103-33-3	Azobenzene			not detected	NLE	0.77 ug/	L
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.87 ug/	L
118-74-1	Hexachlorobenzene			not detected	10	1.08 ug/	L
87-86-5	Pentachlorophenol			not detected	1	1.63 ug/	L
85-01-8	Phenanthrene			not detected	NLE	1.41 ug/	L
120-12-7	Anthracene			not detected	2000	1.29 ug/	L
84-74-2	Di-n-butylphthalate			not detected	900	1.96 ug/	L
206-44-0	Fluoranthene			not detected	300	1.89 ug/	L
92-87-5	Benzidine			not detected	50	4.81 ug/	L
129-00-0	Pyrene			not detected	200	1.44 ug/	ı.
85-68-7	Butylbenzylphthalate			not detected	100	1.21 ug/	L
56-55-3	Benzo[a]anthracene			not detected	10	1.37 ug/	L
91-94-1	3,3'-Dichlorobenzidine			not detected	60	2.01 ug/	L
218-01-9	Chrysene			not detected	20	1.59 ug/.	L.
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	2.00 ug/	
117-84 <b>-</b> 0	Di-n-octylphthalate			not detected	100	1.66 ug/	L
205-99-2	Benzo[b]fluoranthene			not detected	10	1.44 ug/	L
207-08-9	Benzo[k]fluoranthene	I		not detected	2	1 48 119/	

not detected

not detected

not detected

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

Benzo[a]pyrene

Indeno[1,2,3-cd]pyrene

Dibenz[a,h]anthracene

Benzo[g,h,i]perylene

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

20

20

20

NLE

1.21 ug/L

0.95 ug/L

0.74 ug/L

0.97 ug/L

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

ELD ID
ELD ID

Lab Name:	FMETL			Lab Co	de _	13461		Dup	e
Project	98-021	Case No.: <u>468</u> 6	5	Loca	tion	CW2	_ s	DG No.:	·
Matrix: (soil/	water)	WATER		1	Lab :	Sample	ID:	4686.03	
Sample wt/vo	ol:	870 (g/ml) ML		1	Lab I	File ID:		BNA03140.	)
Level: (low/r	ned)	LOW		ı	Date	Receiv	/ed:	8/4/99	
% Moisture:		decanted: (Y/N)	N		Date	Extrac	ted:	8/5/99	
Concentrated	Extract	Volume: <u>1000</u> (uL)		ı	Date	Analyz	ed:	8/6/99	
Injection Volu	ıme: <u>1.</u>	0 (uL)		ſ	Diluti	ion Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	<u> </u>							
			C	CONCE	NTR	ATION	UNI'	ΓS:	
Number TICs	found:	<u> </u>	(1	ug/L or i	ug/K	g)	UG/I	<u> </u>	
CAS NUME	BER	COMPOUND NAME				RT	ES	T. CONC.	Q

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

### **NJDEP Certification #13461**

Data File Name BNA03141.D Operator

Date Acquired

Bhaskar 6-Aug-99 Sample Name

4686.04

Misc Info

0CW2MW30

Sample Multiplier

1.12

CASH	Name	70.00		<b>.</b>	Regulatory Level (ug/L)*			
CAS# 110-86-1	Name Pyridine	R.T.	Response	Result	1	MDL	_	Qualifiers
62-75-9	N-nitroso-dimethylamine	+		not detected	NLE	1	ug/L	<del> </del>
				not detected	20	i	ug/L	
62-53-3	Aniline	+ -		not detected	NLE		ug/L	ļ
108-95-2	Phenol			not detected	4000	0.92		1
111-44-4	bis(2-Chloroethyl)ether	+		not detected	10		ug/L	<del> </del>
95-57-8	2-Chlorophenol			not detected	40	2.24		ļ
<u>541-73-1</u>	1,3-Dichlorobenzene			not detected	600	1.36	ug/L	
106-46-7	1,4-Dichlorobenzene	┼		not detected	75	1.33	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.14	ug/L	
95-50-1	1,2-Dichlorobenzene	<del>                                     </del>		not detected	600	1.27	ug/L	
95-48-7	2-Methylphenol	-		not detected	NLE	1.31	ug/L	
108-60-1	bis(2-chloroisopropyl)ether	1		not detected	300	1.56	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.39	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.90	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.68	ug/L	
98-95-3	Nitrobenzene	1 .		not detected	10	1.09	ug/L	
78-59-1	Isophorone			not detected	100	1.13	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	2.15	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.36	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.49	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.96	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.37	ng/L	
91-20-3	Naphthalene			not detected	NLE	1.42		
106-47-8	4-Chloroaniline			not detected	NLE			
87-68-3	Hexachlorobutadiene			not detected	1	0.80		
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.56		
91-57-6	2-Methylnaphthalene			not detected	NLE	1.21	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.48	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.99		
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.43		
91-58-7	2-Chloronaphthalene			not detected	NLE	1.13		
88-74-4	2-Nitroaniline			not detected	NLE	1.08		
131-11-3	Dimethylphthalate			not detected	7000	1.70		
208-96-8	Acenaphthylene			not detected	NLE	1.08		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.91		
99-09-2	3-Nitroaniline			not detected	NLE	0.88		
83 <b>-</b> 32-9	Acenaphthene			not detected	400	1.23		
51-28-5	2,4-Dinitrophenol			not detected	40	1.61		
132-64-9	Dibenzofuran			not detected	NLE	1.12		
100-02-7	4-Nitrophenol			not detected	NLE	1.19		

### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BNA03141.D

Operator

Bhaskar

6-Aug-99

Sample Name

4686.04

Misc Info

0CW2MW30

Sample Multiplier

1.12

					Regulatory Level			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL	,	Qualifiers
121-14-2	2,4-Dinitrotoluene	-		not detected	10	0.97	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.81	ug/L	
86-73-7	Fluorene			not detected	300	1.11	ug/L	
7005-72-3	4-Chlorophenyl-phenylether	<u> </u>		not detected	NLE	1.23	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.18	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.22	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20		ug/L	
103-33-3	Azobenzene			not detected	NLE	0.75	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	_		
118-74-1	Hexachlorobenzene			not detected	10		ug/L	
87-86-5	Pentachlorophenol			not detected	1		ug/L	
85-01-8	Phenanthrene			not detected	NLE		ug/L	
120-12-7	Anthracene			not detected	2000		ug/L	
84-74-2	Di-n-butylphthalate			not detected	900		ug/L	
206-44-0	Fluoranthene			not detected	300	1.84	ug/L	
92-87-5	Benzidine			not detected	50	4.68		
129-00-0	Pyrene			not detected	200	1.40		
85-68-7	Butylbenzylphthalate			not detected	100	1.18		
56-55-3	Benzo[a]anthracene			not detected	10	1.33		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.96		
218-01-9	Chrysene			not detected	20	1.55		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.95		
117-84-0	Di-n-octylphthalate			not detected	100	1.61		
205-99-2	Benzo[b]fluoranthene			not detected	10	1,40	$\overline{}$	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.44		•
50-32-8	Benzo[a]pyrene			not detected	20	1.18		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.93		
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.72	T T	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.94		

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

### 1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

				_					0CW2	MW30
Lab Name:	FMETL			[	Lab Co	de _	13461			
Project	98-021	<u>1</u> Ca	se No.: <u>4686</u>		Loca	tion	CW2	_ s	DG No.: _	
Matrix: (soil/	water)	WATER	_		I	Lab :	Sample	ID:	4686.04	
Sample wt/v	ol:	892	(g/ml) ML		1	Lab I	File ID:		BNA03141	.D
Level: (low/r	med)	LOW	_		1	Date	Receiv	/ed:	8/4/99	
% Moisture:		dec	anted: (Y/N)	N	1	Date	Extrac	ted:	8/5/99	
Concentrate	d Extract	Volume:	1000 (uL)		1	Date	Analyz	ed:	8/6/99	
Injection Vol	ume: <u>1.</u>	0 (uL)			I	Diluti	on Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	<u>N</u>	pH: <u>7</u>							
				С	ONCE	NTR	ATION	UNI	ΓS:	
Number TICs	s found:	2		(u	ig/L or	ug/K	g)	UG/I		
CAS NUME	BER	COMPOL	JND NAME			!     .	RT	ES	T. CONC.	Q
1		unknown					6.27		32	T T

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

**NJDEP Certification #13461** 

Data File Name

Date Acquired

Operator

BNA03142.D

Bhaskar

6-Aug-99

Sample Name

4686.05

Misc Info

0CW2MW31

Sample Multiplier

1.13

CAS#	Name	R.T.	Response	Dame!	Regulatory Level (ug/L)*			
110-86-1	Pyridine		Kesponse	Result not detected	NLE	MDI	ug/L	Qualifiers
62-75-9	N-nitroso-dimethylamine	1		not detected	20	T	ug/L	<del> </del>
62-53-3	Aniline		<del></del>	not detected	NLE		ug/L	<del> </del>
108-95-2	Phenol	1 1		not detected	4000	<del></del>		<del>                                     </del>
111-44-4	bis(2-Chloroethyl)ether	1 1				0.93		<del>                                     </del>
95-57-8	2-Chlorophenol			not detected	10	1"	ug/L	<del>                                     </del>
541-73-1	1.3-Dichlorobenzene	<del>                                     </del>	<del></del> -	not detected	40 600		ug/L	<del> </del>
106-46-7	1,4-Dichlorobenzene				75		ug/L	<u> </u>
100-51-6	Benzyl alcohol	† †		not detected	1	1	ug/L	<u> </u>
95-50-1	1,2-Dichlorobenzene	1		not detected	NLE		ug/L	<u> </u>
95-48-7	2-Methylphenol	+ +		not detected	600		ug/L	
108-60-1	bis(2-chloroisopropyl)ether	1 - 1		not detected	NLE		ug/L	
106-44-5	4-Methylphenol	<del></del>		not detected	300	1.57		<u> </u>
621-64-7	n-Nitroso-di-n-propylamine	<del>  </del>		not detected	NLE		ug/L	<del>                                     </del>
67-72-1	Hexachloroethane	+ +		not detected	20		ug/L	
98-95-3	Nitrobenzene	<del>  </del>		not detected	10		ug/L	
78-59-1	Isophorone			not detected	100		ug/L	
88-75-5	2-Nitrophenol	+ +	· · · · · · · · · · · · · · · · · · ·	not detected	100	1,14	1	
105-67-9	2,4-Dimethylphenol			not detected	NLE	2.17		
111 <b>-</b> 91-1	bis(2-Chloroethoxy)methane	<del>                                     </del>	<del></del>	not detected	100		ug/L	
120-83-2	2.4-Dichlorophenol	<del>                                     </del>		not detected	NLE		ug/L	<del></del>
65-85-0	Benzoic Acid			not detected	20		ug/L	<b></b>
120-82-1	1,2,4-Trichlorobenzene	<del>   </del>		not detected	NLE		ug/L	
91-20-3	Naphthalene	<del>                                     </del>		not detected	9		ug/L	
106-47-8	4-Chloroaniline	╁		not detected	NLE		ug/L	
87-68 <b>-</b> 3	Hexachlorobutadiene	<del>                                     </del>		not detected	NLE		ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	1		ug/L	
91-57-6	2-Methylnaphthalene		<del></del>	not detected	NLE		ug/L	
77 <b>-</b> 47-4	Hexachlorocyclopentadiene			not detected not detected	NLE	1.22		
88-06-2	2,4,6-Trichlorophenol	<del>                                     </del>	<del></del>	not detected	50 20		ug/L ug/L	
95-95-4	2,4,5-Trichlorophenoi			not detected	700		ug/L ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE			
8-74-4	2-Nitroaniline		· .			1.14		
131-11-3	Dimethylphthalate			not detected not detected	NLE 7000	1.08		
208-96-8	Acenaphthylene				7000		ug/L	
506-20-2	2,6-Dinitrotoluene		.=	not detected	NLE	1.08		· · · · · ·
9-09-2	3-Nitroaniline	<del>   </del>		not detected	NLE	0.92		
33-32-9	Acenaphthene	<del>                                     </del>		not detected	NLE	0.89		
51-28-5	2,4-Dinitrophenol	<del></del>	77	not detected	400	1.24		
32-64-9	Dibenzofuran	<del>                                     </del>		not detected	40	1.63		
00-02-7	4-Nitrophenol	<del>-  </del>		not detected not detected	NLE NLE	1.13 1.20		

### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BNA03142.D

Operator

Bhaskar

6-Aug-99

Sample Name

4686.05

Misc Info

0CW2MW31

Sample Multiplier

1.13

G1 G#			_		Regulatory Level (ug/L)*			
CAS#	Name	R.T.	Response	Result		MDL	1	Qualifiers
121-14-2	2,4-Dinitrotoluene	+		not detected	10		ug/L	
84-66-2	Diethylphthalate	1 1		not detected	5000	1.83	ug/L	
86-73-7	Fluorene			not detected	300	1.12	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.24	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.19	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	<del>  </del>		not detected	NLE	2.24	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.14	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.76	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.86	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.06	ug/L	
87- <b>86-</b> 5	Pentachlorophenol			not detected	1	1.60	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.39	ug/L	
120-12-7	Anthracene			not detected	2000	1.27	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.92	ug/L	
206-44-0	Fluoranthene			not detected	300	1.85	ug/L	
92-87-5	Benzidine			not detected	50	4.72	ug/L	
129-00-0	Pyrene			not detected	200	1.41		
85-68-7	Butylbenzylphthalate		,	not detected	100	1.19		
<u>56-55-3</u>	Benzo[a]anthracene			not detected	10	1.34		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.98		
218-01 <b>-9</b>	Chrysene			not detected	20	1.56		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.97		
117-84-0	Di-n-octylphthalate			not detected	100	1.63		
205-99-2	Benzo[b]fluoranthene			not detected	10	1.41		
207 <u>-</u> 08 <b>-</b> 9	Benzo[k]fluoranthene			not detected	2	1.46		
50-32-8	Benzo[a]pyrene			not detected	20	1.19		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.94		
53-70-3	Dibenz[a,h]anthracene	<b> </b>		not detected	20	0.72		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.95		

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

Page 2 of 2

### 1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID

Lab Name:	FMETL			Lab Co	de 13	R461		0CW2N	IW31
			200 No. 4000		_			·	I
Project	98-0211	C	ase No.: <u>4686</u>	Loca	tion	CVVZ	- Sr	)G No.:	
Matrix: (soil/	water)	WATER	_	. 1	Lab S	ample l	ID:	4686.05	
Sample wt/ve	ol:	885	(g/ml) <u>ML</u>	i	Lab F	ile ID:	<u> </u>	BNA03142.[	<u> </u>
Level: (low/r	med)	LOW		.	Date F	Receive	ed: j	8/4/99	
% Moisture:		ded	anted: (Y/N)	N	Date E	Extracte	ed: a	8/5/99	
Concentrated	d Extract	Volume:	1000 (uL)	1	Date A	Analyze	d: <u>{</u>	8/6/99	
Injection Volu	ume: <u>1.0</u>	(uL)		1	Dilutio	n Facto	or:	1.0	
GPC Cleanu	p: (Y/N)	<u>N</u>	pH: <u>7</u>						
				CONCE	NTRA	TION L	TINI	S:	
Number TICs	s found:	2	<u>—</u>	(ug/L or	ug/Kg	) <u>L</u>	JG/L	<del></del>	
CAS NUME	BER	COMPOL	JND NAME		R	ī	EST	CONC.	Q
1,		unknown			. 6	5.28		41	J
2.		unknown				9.12		33	J

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

### **NJDEP Certification #13461**

Data File Name BNA03143.D Operator

Date Acquired

Bhaskar

6-Aug-99

Sample Name

4686.06

Misc Info

0CW2MW32

Sample Multiplier

1.17

G.10"			_		Regulatory Level (ug/L)*			
CAS#	Name	R.T.	Response	Result	T	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	2.14	ug/L	<u> </u>
62-75-9	N-nitroso-dimethylamine			not detected	20	1.06		
62-53-3	Aniline		<del></del>	not detected	NLE	1.91	ug/L	
108-95-2	Phenol	-		not detected	4000	0.96 ι	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.50 ı	ug/L	
95-57-8	2-Chlorophenol	-		not detected	40	2.34 t	ug/L	
541-73-1	1,3-Dichlorobenzene	╀		not detected	600	1.42 ı	ug/L	
106-46-7	1,4-Dichlorobenzene	+-+		not detected	75	1.39 u	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.19 t	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.32 u	ıg/L	
95-48-7	2-Methylphenol	11		not detected	NLE	1.37 u	ıg/L	
108-60-1	bis(2-chloroisopropyl)ether		<u> </u>	not detected	300	1.63 u	ıg/L	
106-44-5	4-Methylphenol			not detected	NLE	0.41 u	ıg/L	
621-64-7	n-Nitroso-di-n-propylamine		+	not detected	20	0.94 u	1g/L	
67-72-1	Hexachloroethane			not detected	10	1.76 u	ıg/L	
98-95-3	Nitrobenzene			not detected	10	1.13 u	ıg/L	
78- <u>5</u> 9-1	Isophorone			not detected	100	1.18 u	12/L	
88-75 <b>-</b> 5	2-Nitrophenol			not detected	NLE	2.25 u	ıg/L	
105-67-9	2,4-Dimethylphenol			not detected	100	3.07 u		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.42 u		
120-83-2	2,4-Dichlorophenol			not detected	20	1.56 u		
65-85-0	Benzoic Acid			not detected	NLE	2.05 u		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.43 u		
91-20-3	Naphthalene			not detected	NLE	1.49 u		
106-47-8	4-Chloroaniline			not detected	NLE	1.28 ս		
87-68-3	Hexachlorobutadiene			not detected	1	0.83 u		
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.63 u		
91-57-6	2-Methylnaphthalene			not detected	NLE	1.26 u	g/L	_
<u>77-4</u> 7-4	Hexachlorocyclopentadiene			not detected	50	1.54 u	g/L	
88-06-2	2,4,6-Trichlorophenol	<u> </u>		not detected	20	2.08 u	_	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.50 ս	$\neg$	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.18 u	g/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.12 u		
131-11-3	Dimethylphthalate			not detected	7000	1.78 u		
208-96-8	Acenaphthylene			not detected	NLE	1.12 u		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.95 ս		
99-09-2	3-Nitroaniline			not detected	NLE	0.92 u		
83-32-9	Acenaphthene			not detected	400	1.29 u		
51-28-5	2,4-Dinitrophenol			not detected	40	1.68 u		
132-64-9	Dibenzofuran			not detected	NLE	1.17 u	_	
100-02-7	4-Nitrophenol			not detected	NLE	1.24 u		

#### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BNA03143.D

Operator

Bhaskar

6-Aug-99

Sample Name

4686.06

Misc Info

0CW2MW32

Sample Multiplier

1.17

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		O 7400
121-14-2	2.4-Dinitrotoluene	1 1	Response	not detected	10	1.02	ng/I	Qualifiers
84-66-2	Diethylphthalate		<u>.</u> .	not detected	5000	1.90 1		
86-73-7	Fluorene		·	not detected	300	1.16		
7005-72-3	4-Chlorophenyl-phenylether	<b>†</b>	,,,	not detected	NLE	1.29		
100-01-6	4-Nitroaniline			not detected	NLE	1.23 1		
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.32 1		
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.18 1		
103-33-3	Azobenzene			not detected	NLE	0.78 u		<del>"</del>
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.89 u		
118-74-1	Hexachlorobenzene			not detected	10	1.10 u	-	
87-86-5	Pentachlorophenol			not detected	1		12/L	
85-01-8	Phenanthrene			not detected	NLE	1.44 u	ıg/L	
120-12-7	Anthracene		,	not detected	2000	1.31 u		
84-74-2	Di-n-butylphthalate			not detected	900	1.99 u	ıg/L	
206-44-0	Fluoranthene			not detected	300	1.92 u	ıg/L	
92-87-5	Benzidine			not detected	50	4.89 u	ıg/L	
129-00-0	Pyrene			not detected	200	1.46 u	ıg/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.23 u	ıg/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.39 น	ıg/L	
91-94-1	3,3'-Dichlorobenzidine		_	not detected	60	2.05 u	ıg/L	
218-01-9	Chrysene	11		not detected	20	1.61 u	ıg/L	
<u>11</u> 7-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	- 2.04 u	g/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.68 u	g/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.46 u	ıg/L	
207-08-9	Benzo[k]fluoranthene	$oxed{oxed}$		not detected	2	1.51 u	g/L	
50-32-8	Benzo[a]pyrene	igspace		not detected	20	1.23 u	g/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.97 u	g/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.75 u	g/L	
191-24-2	Benzo[g,h,i]perylene	1		not detected	NLE	0.98 ս	g/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

Page 2 of 2

#### 1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FI	ELD	ID

Lab Name:	FMETL		Lab Co	de 13461		0CW2M	W32
Project	98-0211	Case No.: 4686	Loca	tion CW2	sd	G No.:	
Matrix: (soil/	water)	WATER		Lab Sample	ID: 4	1686.06	
Sample wt/ve	ol:	858 (g/ml) ML	<u></u>	Lab File ID:	E	3NA03143.E	)
Level: (low/r	ned)	LOW		Date Receiv	/ed: <u>8</u>	3/4/99	
% Moisture:		decanted: (Y/N)	N	Date Extrac	ted: 8	3/5/99	<u></u>
Concentrated	d Extract	Volume: <u>1000</u> (uL)	;	Date Analyz	ed: <u>8</u>	3/6/99	
Injection Volu	ume: <u>1.0</u>	) (uL)	1	Dilution Fac	tor: 1	.0	
GPC Cleanu	p: (Y/N)	N pH: 7	-				
Number TiCs	s found:	2	CONCE (ug/L or	NTRATION ug/Kg)	UNITS UG/L	S: 	
CAS NUME	BER	COMPOUND NAME		RT	EST	. CONC.	Q
1		unknown		6.28		35	J

9.11

unknown

## Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name

Operator

BNA03144.D

Bhaskar

Sample Name

4686.07 0CW2MW33

Date Acquired

6-Aug-99

Misc Info

Sample Multiplier

Reg	ulatory
·L	evel

					Regulatory Level			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL	<u> </u>	Qualifiers
110-86-1	Pyridine	<u></u>		not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol	1	·	not detected	4000	0.82	ug/L	<u> </u>
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene		<u> </u>	not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1,13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether	•		not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol	<u> </u>		not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane	<u> </u>		not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	_ NLE		ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE		ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9		ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27		
106-47-8	4-Chloroaniline			not detected	NLE	1.09		
87-68-3	Hexachlorobutadiene			not detected	1	0.71		· · · · · · · · · · · · · · · · · · ·
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39		
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
<u>77-47-4</u>	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
<u>95-95-4</u>	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	•
91 <b>-</b> 58-7	2-Chloronaphthalene			not detected	_NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81		
99-09 <b>-</b> 2	3-Nitroaniline			not detected	NLE	0.79		
83-32-9	Acenaphthene			not detected	400	1.10		
51-28-5	2,4-Dinitrophenol			not detected	40	1.44		
132-64-9	Dibenzofuran			not detected	NLE	1.00		
100-02-7	4-Nitrophenol			not detected	NLE	1.06		

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA03144.D

Operator

Bhaskar

Date Acquired

6-Aug-99

Sample Name

4686.07

Misc Info

0CW2MW33

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
121-14-2	2.4-Dinitrotoluene	1	AKOSPORSC	not detected	10		ug/L	Quantiers
84-66-2	Diethylphthalate			not detected	5000		ug/L	
86-73-7	Fluorene			not detected	300		ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE		ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05		
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98		
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01		
103-33-3	Azobenzene			not detected	NLE	0.67		
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94		
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	•
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene	<u> </u>		not detected	200	1.25	ug/L	
85 <b>-</b> 68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene		<u> </u>	not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	"
218-01-9	Chrysene			not detected	20	1.38	ug/L	
11 <b>7-</b> 81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate	ļl		not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene	ļļ		not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene	<b>↓</b>		not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	<b>↓</b>		not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene	<del>                                     </del>		not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene	<u> </u>	<u> </u>	not_detected	NLE	0.84	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET **TENTATIVELY IDENTIFIED COMPOUNDS**

THE CHANICO ANALTOIS DATA SHEET	•
TATIVELY IDENTIFIED COMPOUNDS	

Lab Name:	FMETL			Lab Co	de 13	3461	0CW2N	IW33
Project	98-021	Case	• No.: <u>4686</u>	Loca	tion (	CW2 S	 DG No.:	
Matrix: (soil/v	water)	WATER			Lab Sa	ample ID:	4686.07	
Sample wt/vo	oi:	1000	(g/mi) ML		Lab Fi	le ID:	BNA03144.E	)
Level: (low/n	ned)	LOW			Date F	Received:	8/4/99	
% Moisture:		decar	nted: (Y/N)	<u>N</u>	Date E	xtracted:	8/5/99	_ <del>.</del>
Concentrated	Extract	Volume: 10	00 (uL)		Date A	nalyzed:	8/6/99	
Injection Volu	ıme: <u>1.</u>	0 (uL)			Dilutio	n Factor:	1.0	
GPC Cleanu	p: <b>(Y/N)</b>	<u>N</u> p	H: <u>7</u>					
Number TICs	found:	2		CONCE (ug/L or		TION UNIT		
CAS NUMB	ER	COMPOUN	ID NAME		R	T ES	T. CONC.	Q
1.		unknown			6	.27	33	.1

9.12

unknown

Client:

U.S. Army

Lab. ID#:

BLK374

DPW, SELFM-PW-EV

Date Rec'd:

**Extraction Date:** 

8/10/99

Bldg. 173 Ft. Monmouth, NJ 07703

Analysis Date:

8/12/99

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

T. Frankovich

Field ID:

Analyst:

Ext. Meth: Sep	. Funnel				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1	-	0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1	-	2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1	<del>.</del>	0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

\* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4686.02

DPW, SELFM-PW-EV

Date Rec'd:

8/4/99

Bldg. 173

**Extraction Date:** 

8/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

8/12/99

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Analyst:

Aqueous

Field ID:

Field Blank

Ext. Meth:

T. Frankovich

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1	-	0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND.
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4686.03

DPW, SELFM-PW-EV

Date Rec'd:

8/4/99

Bldg. 173

**Extraction Date:** 

8/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

8/12/99

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

Analyst:

Field ID:

Dupe

T. Frankovich

Ext. Meth: Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1	·	0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0,03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1	-	0.50	0.0009	ND
Toxaphene	. 1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

\* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4686.04

DPW, SELFM-PW-EV

Date Rec'd:

8/4/99

Bldg. 173

**Extraction Date:** 

8/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

8/13/99

Analysis:

EPA Method 608

Location:

Matrix:

CW2

Analyst:

Aqueous

Field ID:

0CW2MW30

Ext. Meth:

Sep. Funnel

T. Frankovich

Ext. Meth: Sep	. Funnel				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND :
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4686.05

DPW, SELFM-PW-EV

Date Rec'd:

8/4/99

Bldg. 173

**Extraction Date:** 

8/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

8/13/99

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

CW2

Analyst:

Field ID:

0CW2MW31

T. Frankovich Sep. Funnel

Ext. Meth:

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1	•	0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1 * Higher of POL's and		0.50	0.0680	ND

 <sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4686.06

DPW, SELFM-PW-EV

Date Rec'd:

8/4/99

Bldg. 173

**Extraction Date:** 

8/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

8/13/99

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

Analyst:

Field ID:

0CW2MW32

Ext. Meth:

T. Frankovich

Sep. Funnel

Ext. Meth: Sep.	. Funnel		<del>,</del>		
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1	-	0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10 ·	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4686.07

DPW, SELFM-PW-EV

Date Rec'd:

8/4/99

Bldg. 173

**Extraction Date:** 

8/10/99

Ft. Monmouth, NJ 07703

Analysis Date:

8/13/99

Analysis:

EPA Method 608

Location:

Matrix:

CW2

Analyst:

Aqueous

Field ID:

0CW2MW33

Ext. Meth:

T. Frankovich Sep. Funnel

Ext. Meth: Sep	. Funnel				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1	,	0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chiordane	1		~ 0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Lab ID #: 4686

Bldg. 173

Sample Prepared: 08/19/99

Ft. Monmouth, NJ 07703

Field ID#: Method Blank

Site: CW-2

Ft. Monmouth, New Jersey

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/20/99	ND	200	10.0
Antimony	08/20/99	ND	20	2.0
Arsenic	08/20/99	ND	8	2.0
Barium	08/20/99	1.06	2000	0.5
Beryllium	08/20/99	ND	20	0.5
Cadmium	08/20/99	0.771	4	0.5
Calcium	08/20/99	76.1	NLE	20.0
Chromium	08/20/99	ND	100	0.5
Cobalt	08/20/99	ND	NLE	0.5
Copper	08/20/99	49.5	1000	3.0
Iron	08/20/99	ND	300	10.0
Lead	08/20/99	4.20	10	2.0
Magnesium	08/20/99	ND	NLE	20.0
Manganese	08/20/99	1.12	50	0.5
Mercury	08/24/99	ND	2	0.1
Nickel	08/20/99	5.75	100	0.5
Potassium	08/20/99	1290	NLE	20.0
Selenium	08/20/99	ND	50	3.0
Silver	08/20/99	ND	20	3.0
Sodium	08/20/99	303	50000	20.0
Thallium	08/20/99	ND	10	3.0
Vanadium	08/20/99	ND	NLE	1.0
Zinc	08/20/99	41.3	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4686.02

Sample Received: 08/04/99

Sample Matrix: Aqueous

Site: CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/20/99	ND	200	10.0
Antimony	08/20/99	ND	20	2.0
Arsenic	08/20/99	ND	8	2.0
Barium	08/20/99	0.588	2000	0.5
Beryllium	08/20/99	ND	20	0.5
Cadmium	08/20/99	ND	4	0.5
Calcium	08/20/99	356	NLE	20.0
Chromium	08/20/99	ND	100	0.5
Cobalt	08/20/99	ND	NLE	0.5
Copper	08/20/99	3.55	1000	3.0
Iron	08/20/99	40.5	300	10.0
Lead	08/20/99	ND	10	2.0
Magnesium	08/20/99	48.4	NLE	20.0
Manganese	08/20/99	1.06	50	0.5
Mercury	08/24/99	ND	2	0.1
Nickel	08/20/99	0.928	100	0.5
Potassium	08/20/99	99.2	NLE	20.0
Selenium	08/20/99	ND	50	3.0
Silver	08/20/99	ND	20	3.0
Sodium	08/20/99	419	50000	20.0
Thallium	08/20/99	ND	10	3.0
Vanadium	08/20/99	ND	NLE	1.0
Zinc	08/20/99	4.25	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4686.03

Sample Received: 08/04/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Dupe

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/20/99	90.3	200	10.0
Antimony	08/20/99	ND	20	2.0
Arsenic	08/20/99	ND	8	2.0
Barium	08/20/99	249	2000	0.5
Beryllium	08/20/99	ND	20	0.5
Cadmium	08/20/99	1.19	4	0.5
Calcium	08/20/99	72000	NLE	20.0
Chromium	08/20/99	ND	100	0.5
Cobalt	08/20/99	ND	NLE	0.5
Copper	08/20/99	5.52	1000	3.0
Iron	08/20/99	76200	300	10.0
Lead	08/20/99	ND	10	2.0
Magnesium	08/20/99	8280	NLE	20.0
Manganese	08/20/99	368	50	0.5
Mercury	08/24/99	0.3	2	0.1
Nickel	08/20/99	1.32	100	0.5
Potassium	08/20/99	11900	NLE	20.0
Selenium	08/20/99	ND	50	3.0
Silver	08/20/99	ND	20	3.0
Sodium	08/20/99	15000	50000	20.0
Thallium	08/20/99	ND	10	3.0
Vanadium	08/20/99	2.50	NLE	1.0
Zinc	08/20/99	24.8	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4686.04

Sample Received: 08/04/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW30

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/20/99	304	200	10.0
Antimony	08/20/99	ND	20	2.0
Arsenic	08/20/99	9.05	8	2.0
Barium	08/20/99	127	2000	0.5
Beryllium	08/20/99	ND	20	0.5
Cadmium	08/20/99	2.06	4	0.5
Calcium	08/20/99	83300	NLE	20.0
Chromium	08/20/99	3.82	100	0.5
Cobalt	08/20/99	ND	NLE	0.5
Copper	08/20/99	77.7	1000	3.0
Iron	08/20/99	44800	300	10.0
Lead	08/20/99	6.02	10	2.0
Magnesium	08/20/99	7890	NLE	20.0
Manganese	08/20/99	212	50	0.5
Mercury	08/24/99	ND	2	0.1
Nickel	08/20/99	8.53	100	0.5
Potassium	08/20/99	10800	NLE	20.0
Selenium	08/20/99	ND	50	3.0
Silver	08/20/99	ND	20	3.0
Sodium	08/20/99	47200	50000	20.0
Thallium	08/20/99	ND	10	3.0
Vanadium	08/20/99	3.02	NLE	1.0
Zinc	08/20/99	56.6	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4686.05

Sample Received: 08/04/99

Sample Matrix: Aqueous

Site: 0

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW31

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/20/99	ND	200	10.0
Antimony	08/20/99	ND	20	2.0
Arsenic	08/20/99	ND	8	2.0
Barium	08/20/99	361	2000	0.5
Beryllium	08/20/99	ND	20	0.5
Cadmium	08/20/99	1.06	4	0.5
Calcium	08/20/99	59600	NLE	20.0
Chromium	08/20/99	ND	100	0.5
Cobalt	08/20/99	ND	NLE	0.5
Copper	08/20/99	ND	1000	3.0
Iron	08/20/99	77500	300	10.0
Lead	08/20/99	ND	10	2.0
Magnesium	08/20/99	7120	NLE	20.0
Manganese	08/20/99	347	50	0.5
Mercury	08/24/99	ND	2	0.1
Nickel	08/20/99	1.11	100	0.5
Potassium	08/20/99	11600	NLE	20.0
Selenium	08/20/99	ND	50	3.0
Silver	08/20/99	ND	20	3.0
Sodium	08/20/99	12900	50000	20.0
Thallium	08/20/99	ND	10	3.0
Vanadium	08/20/99	2.40	NLE	1.0
Zinc	08/20/99	6.86	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4686.06

Sample Received: 08/04/99

Sample Matrix: Aqueous

Site: CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW32

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
Diememi	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/20/99	67.4	200	10.0
Antimony	08/20/99	ND	200	2.0
		L		<u> </u>
Arsenic	08/20/99	ND	8	2.0
Barium	08/20/99	247	2000	0.5
Beryllium	08/20/99	ND	20	0.5
Cadmium	08/20/99	2.25	4	0.5
Calcium	08/20/99	71700	NLE	20.0
Chromium	08/20/99	ND	100	0.5
Cobalt	08/20/99	ND	NLE	0.5
Copper	08/20/99	6.23	1000	3.0
Iron	08/20/99	76000	300	10.0
Lead	08/20/99	ND	10	2.0
Magnesium	08/20/99	8270	NLE	20.0
Manganese	08/20/99	369	50	0.5
Mercury	08/24/99	ND	2 .	0.1
Nickel	08/20/99	1.70	100	0.5
Potassium	08/20/99	11900	NLE	20.0
Selenium	08/20/99	ND	50	3.0
Silver	08/20/99	ND	20	3.0
Sodium	08/20/99	14800	50000	20.0
Thallium	08/20/99	ND	10	3.0
Vanadium	08/20/99	2.84	NLE	1.0
Zinc	08/20/99	24.8	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4686.07

Sample Received: 08/04/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/20/99	69.8	200	10.0
Antimony	08/20/99	ND	20	2.0
Arsenic	08/20/99	3.25	8	2.0
Barium	08/20/99	158	2000	0.5
Beryllium	08/20/99	ND	20	0.5
Cadmium	08/20/99	0.561	4	0.5
Calcium	08/20/99	35100	NLE	20.0
Chromium	08/20/99	0.700	100	0.5
Cobalt	08/20/99	ND	NLE	0.5
Copper	08/20/99	ND	1000	3.0
Iron	08/20/99	35900	300	10.0
Lead	08/20/99	ND	10	2.0
Magnesium	08/20/99	5360	NLE	20.0
Manganese	08/20/99	149	50	0.5
Mercury	08/24/99	ND	2	0.1
Nickel	08/20/99	1.27	100	0.5
Potassium	08/20/99	7690	NLE	20.0
Selenium	08/20/99	ND	50	3.0
Silver	08/20/99	ND	20	3.0
Sodium	08/20/99	16100	50000	20.0
Thallium	08/20/99	ND	10	3.0
Vanadium	08/20/99	ND	NLE	1.0
Zinc	08/20/99	7.30	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

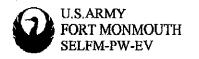
i	Lab	Silanol, trimethyl-	Hexadeca noic Acid	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ugi	Feet	-
NJDEP Criteria:		NLE	NLE	300	50	200	8	10	-	-
04/24/97	FMETL	31	9	9100	69	-	-	-	6.45	V,S,P,M
07/10/97	FMETL	ND	ND	12590	73	25	5.0	ND	7.05	V,S,P,M
10/22/97	FMETL	ND	ND	34800	171	175	5.0	5.0	7.60	V,S,P,M
01/08/98	FMETL	ND	ND	2795	5.0	204	ND	4.0	5.20	V,S,P,M
04/07/98	FMETL	ND	ND	3504	39.3	196	5.6	ND	6.56	V,S,P,M
07/14/98	FMETL	ND	ND	10900	57.8	65.7	ND	ND	6.89	V,S,P,M
11/24/98	FMETL	ND	ND	27500	182	ND	11.5	3.15	7.86	V,S,P,M
02/11/99	FMETL	ND	ND	11000	100	505	8.3	ND	7.24	V,S,P,N
06/09/99	FMETL	ND	ND	8210	145	521	6.33	ND	7.21	V,S,P,N
08/04/99	FMETL	ND	ND	44800	212	304	9.05	6.02	7.43	V,S,P,M

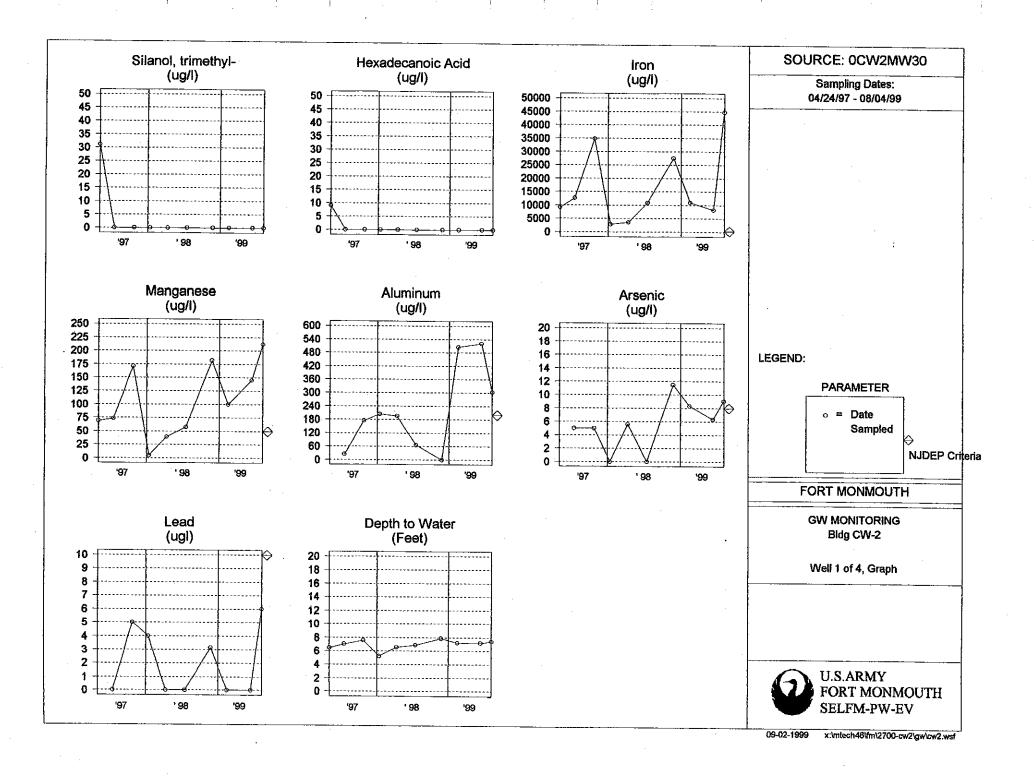
SOURCE: 0CW2MW30				
	Sampling Dates:			
	04/24/97 - 08/04/99			
NOTES:				

#### FORT MONMOUTH

GW MONITORING Bidg CW-2

Well 1 of 4





	Lab	Silanol, trimethyl-	iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water		Notes
Units;	-	ug/i	ug/l	ug/l	ug/i	ug/l	ug)	Feet	··	<u> </u>
NJDEP Criteria:	-	NLE	300	50	200	8	10	-	····	
04/24/97	FMETL	12	59900	277	-	_	•	6.38	<del></del>	V,S,P,M
07/10/97	FMETL	ND	11830	267	ND	1.0	ND	7.00		V,S,P,M
10/22/97	FMETL	ND	52300	243	93	ND	6.0	7.50		V,S,P,M
01/08/98	FMETL	ND	68450	240	129	ND	25	6.30		V,S,P,M
04/07/98	FMETL	ND	115100	266	ND	ND	ND	6.35	<del></del>	V,S,P,M
07/14/98	FMETL	ND	83600	311	390	ND	4.85	6.71		V,S,P,M
11/24/98	FMETL	ND	72800	322	ND	ND	2.33	7.78		V,S,P,M
02/11/99	FMETL	ND	71900	316	ND	ND	ND	7.07		V,S,P,M
06/09/99	FMETL	ND	104000	326	27.9	ND	ND	7.15		V,S,P,M
08/04/99	FMETL	ND	77500	347	ND	ND	ND	7.65		V,S,P,M

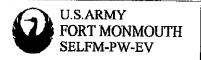
SOURCE: 0CW2MW31	
Sampling Dates:	
04/24/97 - 08/04/99	

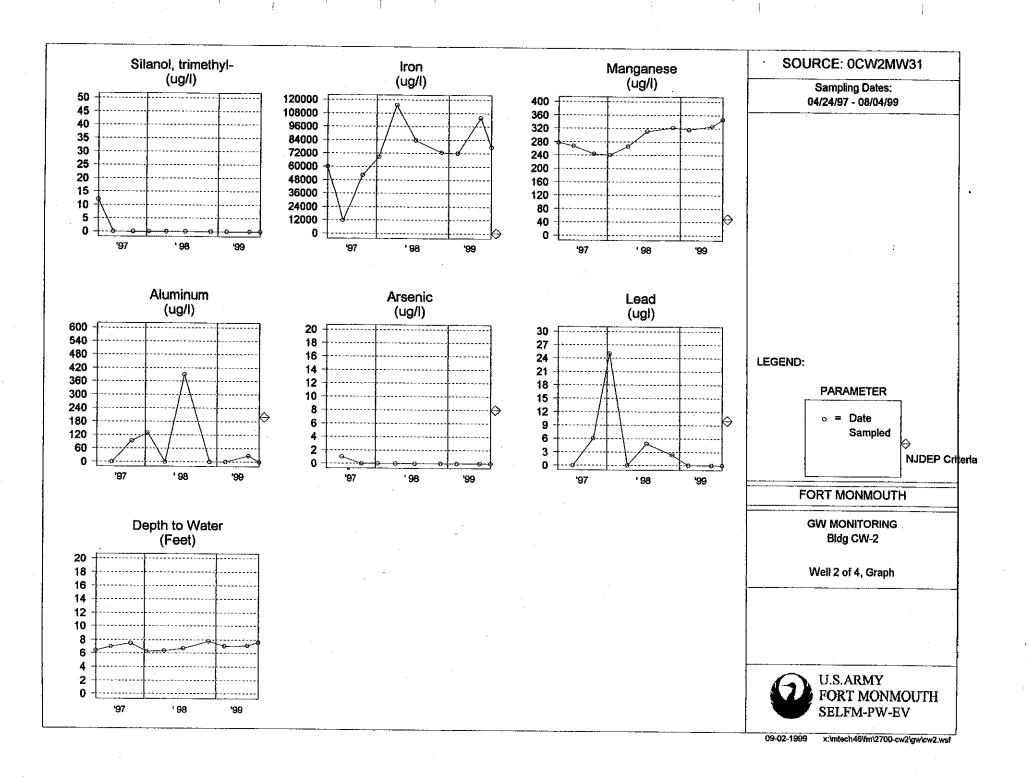
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 2 of 4





i	Lab	Silanol, trimethyl-	Hexadeca noic Acid	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/i	ug/l	ug/l	ug/l	ug/l	ugi	Feet	_
NJDEP Criteria:	-	NLE	NLE	300	50	200	8	10	-	-
04/24/97	FMETL	4	18	18400	125	-	-	-	6.65	V,S,P,M
07/10/97	FMETL	ND	ND	270	181	595	ND	ND	7.20	V,S,P,M
10/22/97	FMETL	ND	ND	51100	260	297	ND	7.0	7.70	V,S,P,M
01/08/98	FMETL	ND	ND	1484	3.7	163	ND	ND	4.50	V,S,P,M
04/07/98	FMETL	ND	ND	19280	287	ND	ND	ND	6.81	V,S,P,M
07/14/98	FMETL	ND	ND	67500	287	78.1	2.51	3.99	7.06	V,S,P,M
11/24/98	FMETL	ND	ND	106000	342	166	9.32	4.08	7.94	V,S,P,M
02/11/99	FMETL	ND	ND	4480	7.02	137	ND	ND	7.33	V,S,P,M
06/09/99	FMETL	МD	ND	64300	310	59.5	ND	ND	7.49	V,S,P,M
08/04/99	FMETL	ND	ND	76000	369	67.4	ND	ND	7.85	V,S,P,M

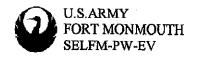
SOURCE: 0CW2MW32	
Sampling Dates:	
04/24/97 - 08/04/99	

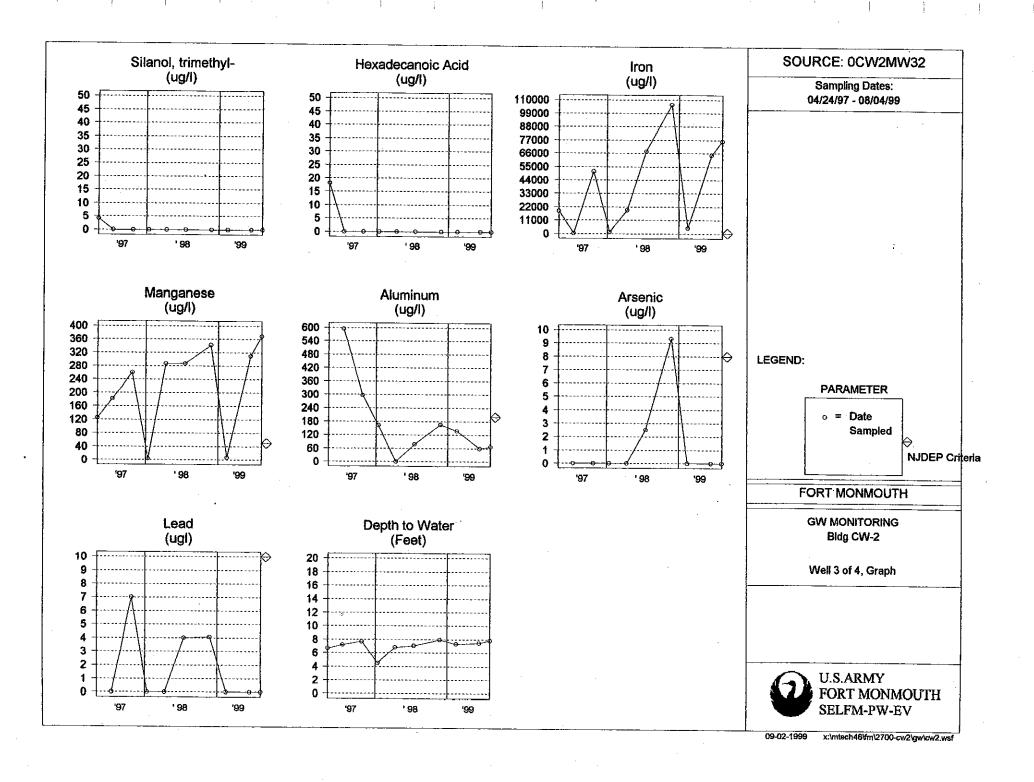
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 3 of 4





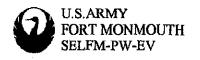
	Lab	iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	- <del>-</del>	ug/l	ug/i	ug/i	ug/l	ugl	Feet	 <del>                                     </del>
NJDEP Criteria:	•	300	50	200	8	10	-	-
04/24/97	FMETL	88600	424	-	•	-	8.95	V,S,P,M
07/10/97	FMETL	10260	519	2.1	1.0	ND	9.10	V,S,P,M
10/22/97	FMETL	26800	151	94	ND	4.0	9.10	V,S,P,M
01/08/98	FMETL	104700	342	217	6.0	4.0	9.00	V,S,P,M
04/07/98	FMETL	19780	110	119	3.4	ND	9.50	V,S,P,M
07/14/98	FMETL	35900	130	411	ND	4.19	9.09	V,S,P,M
11/24/98	FMETL	25400	87.8	125	ND	ND	9.13	V,S,P,M
02/11/99	FMETL	11300	81.2	67.8	ND	ND	8.13	V,S,P,M
06/09/99	FMETL	69600	214	336	5.82	ND	9.13	V,S,P,M
08/04/99	FMETL	35900	149	69	8	3.25	9.15	V,S,P,M

so	URCE: 0CW2MW33
·	Sampling Dates:
	04/24/97 - 08/04/99
NOTES:	

FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Well 4 of 4



# FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

## DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



## ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

#### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE		
4911.04	0CW2MW30	29-32594	11/03/99		
4911.05	0CW2MW31	29-32595	11/03/99		
4911.06	0CW2MW32	29-32596	11/03/99		
4911.07	0CW2MW33	29-32597	11/03/99		

NJDEP Laboratory Certification # 13461

Daniel Wright/Date:
Laboratory Director

## METHODOLOGY SUMMARY

PARAMETER	REFERENCE						
TARGET ANALYTE LIST	Standard Methods, 18th ed.						
METALS							
Aluminum	3120B						
Antimony	3120B						
Arsenic	3120B						
Barium	3120B						
Beryllium	3120B						
Cadmium	3120B						
Calcium	3120B						
Chromium	3120B						
Cobalt	3120B						
Соррег	3120B						
Iron	3120B						
Lead	3120B						
Magnesium	3120B						
Manganese	3120B						
Mercury	3112B						
Nickel	3120B						
Potassium	3120B						
Selenium	3120B						
Silver	3120B						
Sodium	3120B						
Thallium	3120B						
Vanadium	3120B						
Zinc	3120B						

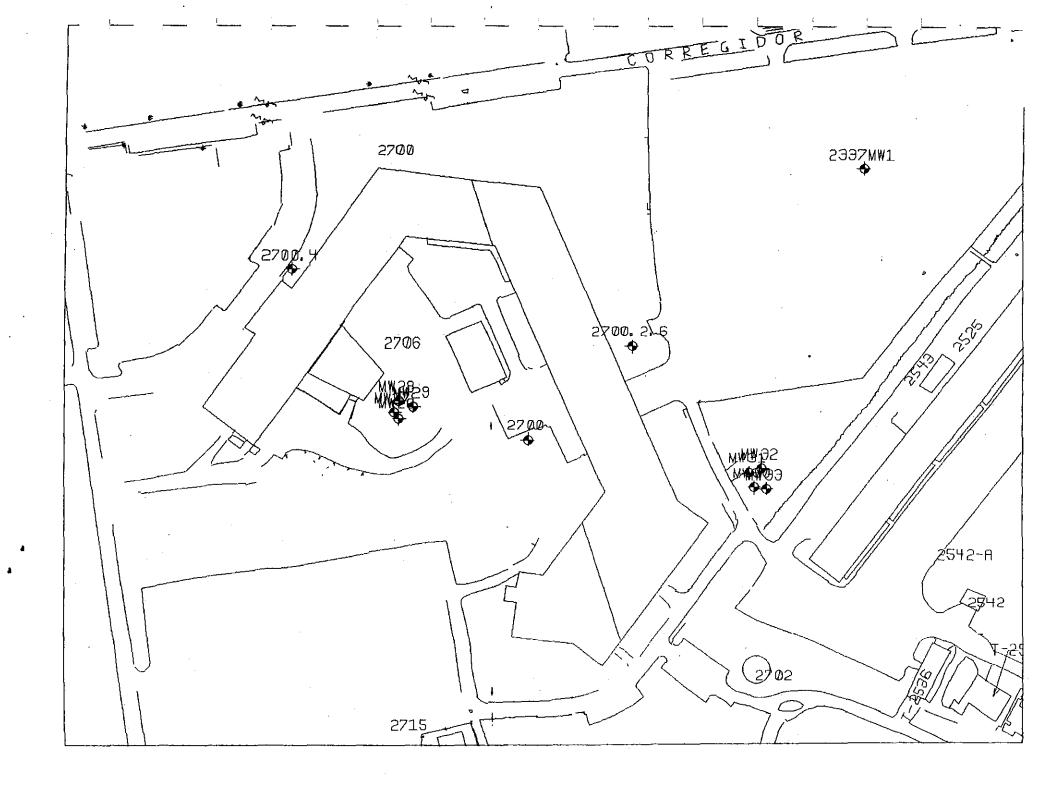
PARAMETER	REFERENCE
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136
ORGANICS	Appendix A
Base/Neutral and Acid	625
Extractables by GC/MS	
Purgeable Organics by	624
GC/MS	
Pesticide and PCB by GC	608

# Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

**Chain of Custody Record** 

Customer: J. FALLON				Project No:							Ana	lysis l	Comments:				
Phone #: XX (1223				Location: رسء لاسدالع						TAC MIS	د	8)					
DERA ( )OMA ( )Other:			4th Qitr 199					ž	+2.		Æ				Ke.d	HCL/HNO3/64°C	
Sample	ers Name / Co	mpany: Corey McCor	muck	$\mathcal{J}$	<b>/</b> S	Sam	ple	#	Vo +15	<b>4</b> c	BNA tas	P.t/RB				84	
Lab S	ample I.D.	Sample Location	l .	ate	Time	Туре		bottles	>	7	8	P.				H	Remarks / Preservation Method
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	. 06	OCM2 WM32			1038			5	~	1	1	\					29 - 32596
		OCWAMW 33	1	/_	1044	↓	_	9	/		~	-					29-32547
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Report Ty	pe: ()Full, ()F	Reduced, Standard, Screen	/ non-ce	ertified	,			<del>, - ·</del>	Remar	ks:	, <u>.</u>	Sh	res Ti	ip / F	3/ Bye	With	2760 Myen sine det.
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LOCATION: CW-2 MW#: 0CW2MW30 NJDEP ID #: 29-32594 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 11/03/99

WEATHER: Sunny, cold, windy.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.71 ft

INNER CASING DIA.: 4 INCH DEPTH TO WATER: 7.02 ft DEPTH OF WELL: 17.95 ft

DEPTH TO TOP OF SCREEN: 6.00 ft

HEIGHT OF WATER: 10.93 ft (10.93) X .65 X 3 =21.31

GALLONS OF H2O TO BE PURGED: 21 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 08:55** 

pH 7.18 su

TEMP 13.5 °C

DISSOLVED O2 6.81 ppm

SPECIFIC CONDUCTIVITY 134 us/cm

PURGE END TIME: 10:26

pH 7.20 su

TEMP 13.3 °C

DISSOLVED O2 5.62 ppm

SPECIFIC CONDUCTIVITY 134 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 12.12 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 21 gal

SAMPLE START TIME: 10:27

pH 7.21 su

TEMP 13.3 °C

DISSOLVED O2 5.60 ppm

SPECIFIC CONDUCTIVITY 134 us/cm

SAMPLE END TIME: 10:34

COMMENTS:

**LOCATION: CW-2** MW#: 0CW2MW31 NJDEP ID #: 29-32595 **NJDEP CERT #: 13461** 

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 11/03/99

WEATHER: Sunny, cold, windy.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.58 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 7.18 ft** DEPTH OF WELL: 16.41 ft

DEPTH TO TOP OF SCREEN: 5.00 ft

HEIGHT OF WATER: 9.73 ft (9.73) X .65 X 3 = 18.97

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 09:00** 

pH 7.35 su

TEMP 13.4 °C

DISSOLVED O2 6.71 ppm

SPECIFIC CONDUCTIVITY 193 us/cm

PURGE END TIME: 10:22

pH 7.36 su

TEMP 13.2 °C

DISSOLVED O2 5.70 ppm

SPECIFIC CONDUCTIVITY 193 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.42 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:23

pH 7.35 su

TEMP 13.2 °C

DISSOLVED O2 5.68 ppm

SPECIFIC CONDUCTIVITY 192 us/cm

SAMPLE END TIME: 10:26

COMMENTS: Orange tinge. Particles.

**LOCATION: CW-2** MW#: 0CW2MW32 NJDEP ID #: 29-32596 **NJDEP CERT #: 13461** 

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 11/03/99

WEATHER: Sunny, cold, windy.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.38 ft

INNER CASING DIA.: 4 INCH DEPTH TO WATER: 6.53 ft DEPTH OF WELL: 16.88 ft

DEPTH TO TOP OF SCREEN: 5.00 ft

HEIGHT OF WATER: 10.36 ft (10.36) X .65 X 3 = 20.20

GALLONS OF H2O TO BE PURGED: 20 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 09:10

pH 7.21 su

TEMP 13.5 °C

DISSOLVED O2 6.91 ppm

SPECIFIC CONDUCTIVITY 155 us/cm

PURGE END TIME: 10:37

pH 7.22 su

TEMP 13.4 °C

DISSOLVED O2 5.81 ppm

SPECIFIC CONDUCTIVITY

155 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 11.52 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 20 gal

SAMPLE START TIME: 10:38

pH 7.21 su

TEMP 13.3 °C

DISSOLVED O2 5.80 ppm

SPECIFIC CONDUCTIVITY 156 us/cm

SAMPLE END TIME: 10:43

COMMENTS: Orange tinge. DUP. Here.

LOCATION: CW-2 MW#: 0CW2MW33 NJDEP ID #: 29-32597 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 11/03/99

WEATHER: Sunny, cold, windy.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.09 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 6.14 ft** DEPTH OF WELL: 16.10 ft

DEPTH TO TOP OF SCREEN: 5.00 ft

HEIGHT OF WATER: 9.96 ft (9.96) X .65 X 3 = 19.42

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF < 0.5 TO > 5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 09:15

pH 6.83 su

TEMP 13.5 °C

DISSOLVED O2 6.67 ppm

SPECIFIC CONDUCTIVITY 117 us/cm

**PURGE END TIME: 10:37** 

pH 6.84 su

TEMP 13.3 °C

DISSOLVED O2 5.31 ppm

SPECIFIC CONDUCTIVITY 117 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.02 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:44

pH 6.81 su

TEMP 13.3 °C

DISSOLVED O2 5.31 ppm

SPECIFIC CONDUCTIVITY 117 us/cm

SAMPLE END TIME: 10:50

COMMENTS: Orange tinge, heavier while bailing. MS/MSD here.

## US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEPE # 13461

## **Definition of Qualifiers**

MDL : Method Detection Limit

J : Compound identified below detection limit

B : Compound in both sample and blank

D : Results from dilution of sample

U : Compound searched for but not detected

E : Compound exceeds calibration limit

#### Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Operator

VB004723.D

Sample Name Field ID

Vblk145 Vblk145

Date Acquired

Skelton 8 Nov 1999 5:50 pm

Sample Multiplie 1

CAS#	Compound Name	Compound Name R.T. Response			Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein	Ì		not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	· · · · · · · · · · · · · · · · · · ·
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	<u> </u>
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	. 0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane		-	not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene		<del> </del>	not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
	trans-1,3-Dichloropropene		<del></del>	not detected	nie	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane	T i		not detected	3	0.48 ug/L	
	Tetrachloroethene			not detected	1	0.48 ug/L 0.32 ug/L	-
	2-Hexanone		·	not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
	Ethylbenzene			not detected	700	0.65 ug/L	
	m+p-Xylenes			not detected	nle	1.14 ug/L	
	o-Xylene			not detected	nle	0.62 ug/L	
	Styrene			not detected	100	0.56 ug/L	
	Bromoform			not detected	4	0.70 ug/L	
	1,1,2,2-Tetrachloroethane			not detected			
	1,3-Dichlorobenzene			not detected	2	0.47 ug/L 0.55 ug/L	
	ALL ATOMOTOCOMENTIC			ווטו עכוכנונע	600	U.JJ UE/L	
	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established R.T. = Retention Time

**COMPOUND NAME** 

CAS NO.

### VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab ID.

EST. CONC.

Q

TENTATIVELY IDENTIFIED COMPOUNDS Vblk145 Lab Name: **FMETL** Project: LTM NJDEP#: 13461 Case No.: 4911 Location: CW2 SDG No.: Matrix: (soil/water) WATER Lab Sample ID: Vblk145 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB004723.D Level: (low/med) LOW Date Received: 11/3/99 % Moisture: not dec. Date Analyzed: 11/8/99 GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0 Soil Extract Volume: Soil Aliquot Volume: (uL) (uL) **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/L Number TICs found:

RT

Data File

VB004756.D

Sample Name

Field ID

Vblk146 Vblk146

Operator Date Acquired

Skelton 12 Nov 1999 1:08 pm

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	,
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	<u> </u>
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	<b></b>
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1.2-Dichloroethene	<u> </u>		not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6.	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.23 ug/L	<del></del>
71-43-2	Benzene			not detected	1	0.47 ug/L 0.23 ug/L	
107-06-2	1,2-Dichloroethane		<del></del>	not detected	2	0.23 ug/L	
79-01-6	Trichloroethene	-		not detected	1	0.13 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1 1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.40 ug/L 0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nie	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene		· · · · · · · · · · · · · · · · · · ·	not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene		<del></del>	not detected	100	0.56 ug/L	<del></del>
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected		0.47 ug/L 0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	600		
95-50-1	1,2-Dichlorobenzene			nor detected	75	0.57 ug/L 0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab ID.

EST. CONC.

RT

Q

		TENTATI	VELY IDEN	TIFIED COMPO	DUNDS		
Lab Name:	FMETL			Project:	LTM	Vblk146	
NJDEP#:	13461	Cas	se No.: <u>491</u>	1 Location	on: <u>CW2</u> \$	SDG No.:	
Matrix: (soil/v	vater)	WATER		La	ab Sample ID	: Vblk146	
Sample wt/vo	ol:	5.0	(g/ml) ML	La	ab File ID:	VB004756.D	
_evel: (low/n	ned)	LOW		D	ate Received:	11/3/99	
% Moisture: r	not dec.			D	ate Analyzed:	11/12/99	
GC Column:	RTX50	02. ID: 0.2	.5 (mm)	D	ilution Factor:	1.0	_
Soil Extract V	olume:	_ = =	_ (uL)	Se	oil Aliquot Vol	ume:	(uL)
				CONCENTRA			
Number TiCs	found:	0	_	(ug/L or ug/Kg	) <u>UG/L</u>	·	

**COMPOUND NAME** 

CAS NO.

Data File . Operator

VB004737.D

Skelton

Sample Name Field ID

4911.01 Trip Blank

Date Acquired

9 Nov 1999 2:52 am

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein	<u> </u>		not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	-
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide		<u> </u>	not detected	nle	0.46 ug/L	<u> </u>
75-09-2	Methylene Chloride	i	† · · · · · · ·	not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene		<del></del>	not detected	100	0.16 ug/L	
75-34-3	1.1-Dichloroethane	<del> </del>		not detected	70	0.10 ug/L	
108-05-4	Vinyl Acetate	<del> </del>		not detected	nle	0.72 ug/L	
78-93-3	2-Butanone		· · · · · · · · · · · · · · · · · · ·	not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.02 ug/L	
67-66-3	Chloroform	<del> </del>		not detected	6	0.17 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.30 ug/L	
56-23-5	Carbon Tetrachloride	-	<del>                                     </del>	not detected	2	0.23 ug/L 0.47 ug/L	· · · ·
71-43-2	Benzene		<del> </del>	not detected	1	0.47 ug/L 0.23 ug/L	
107-06-2	1.2-Dichloroethane		<del> </del>	not detected	<del></del>	0.23 ug/L 0.18 ug/L	
79-01-6	Trichloroethene		<del> </del>	1	2		<del></del> -
78-87-5	1,2-Dichloropropane		<del> </del>	not detected	1	0.23 ug/L	
75-27-4				not detected	1	0.40 ug/L	
110-75-8	Bromodichloromethane	<del></del>		not detected	1	0.55 ug/L	
10061-01-5	2-Chloroethyl vinyl ether		<u> </u>	not detected	nle	0.65 ug/L	
	cis-1,3-Dichloropropene	<u> </u>	<del> </del>	not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone	!	<u> </u>	not detected	400	0.59 ug/L	
108-88-3	Toluene		<del> </del>	not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
<u>79-00-5</u>	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	٠
127-18-4	Tetrachloroethene			not_detected		0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane		<u> </u>	not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene		<del> </del>	not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes		ļ	not detected	nle	1.14 ug/L	
<u>1330-20-7</u>	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene		ļ	not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	_		not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene	,	[	not detected	. 600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab ID.

EST. CONC.

RT

	TENTATI	VELY IDEN	FIFIED COMPOUN	ND\$		
FMETL			Project: L	_TM	Trip Blan	k
13461	Cas	se No.: <u>491</u>	Location:	CW2 S	DG No.:	
vater)	WATER		Lab S	Sample ID:	4911.01	
ol:	5.0	(g/ml) ML	Lab I	File ID:	VB004737.D	
ned)	LOW	_	Date	Received:	11/3/99	_
not dec.			Date	Analyzed:	11/9/99	
RTX50	02. ID: 0.2	25 (mm)	Diluti	on Factor:	1.0	
olume:		_ (uL)	Soil A	Aliquot Volu	me:	(uL)
			CONCENTRATIO	ON UNITS:		
found:	0	_	(ug/L or ug/Kg)	UG/L		
	13461 vater) ol: ned) not dec. RTX50 folume:	FMETL           13461         Caster           vater)         WATER           5.0         LOW           ned)         LOW           not dec.         RTX502. ID: 0.2           folume:         ID: 0.2	FMETL           13461         Case No.: 4911           vater)         WATER           bl:         5.0         (g/ml) ML           ned)         LOW         not dec.           RTX502.         ID: 0.25         (mm)           folume:	FMETL         Project:         L           13461         Case No.:         4911         Location:           vater)         WATER         Lab S           ol:         5.0         (g/ml)         ML         Lab I           ned)         LOW         Date           not dec.         Date           RTX502.         ID:         0.25         (mm)         Dilution           Folume:         (uL)         CONCENTRATION         CONCENTRATION	13461   Case No.: 4911   Location: CW2   Separatery   WATER   Lab Sample ID: Lab File ID: Lab	FMETL         Project: LTM         Trip Blan           13461         Case No.: 4911         Location: CW2 SDG No.: 4911.01         SDG No.: 4911.01         Lab Sample ID: 4911.01         Lab File ID: VB004737.D         VB004737.D         Date Received: 11/3/99         11/3/99         Date Analyzed: 11/9/99         11/9/99         Date Analyzed: 11/9/99         11/9/99         CONCENTRATION UNITS: (ug/L or ug/Kg)         UG/L         UND NAME

CAS NO.

Data File

VB004738.D

Operator Skelton

Sample Name Field ID 4911.02 Field Blank

Date Acquired

9 Nov 1999 3:32 am

Sample Multiplic 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	,
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	1		not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	-
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1.2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1.1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane		I	not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1 1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.13 ug/L 0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	i	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene		· · · · · · · · · · · · · · · · · · ·	not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene		_	not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	-
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established

Lab Name:

CAS NO.

Matrix: (soil/water) Sample wt/vol: Level: (low/med)

% Moisture: not dec.

NJDEP#:

## VOLATILE ORGANICS ANALYSIS DATA SHEET

,	VOLATILE ORGANICS A	Lab ID.	
FMETL	TENTATIVELY IDENTI	FIED COMPOUNDS  Project: LTM	Field Blank
13461	Case No.: 4911		DG No.:
rater)	WATER	Lab Sample ID:	4911.02
ıl:	5.0 (g/ml) ML	Lab File ID:	VB004738.D
ned)	LOW	Date Received:	11/3/99
ot dec.		Date Analyzed:	11/9/99

GC Column: RTX502. ID: 0.25 (mm) Dilution Factor: 1.0 Soil Aliquot Volume: Soil Extract Volume: (uL)

> **CONCENTRATION UNITS:** (ug/L or ug/Kg) UG/L

> > RT

EST. CONC.

Q

Number TICs found:

**COMPOUND NAME** 

Data File

VB004740.D

Operator Date Acquired Skelton

9 Nov 1999 4:50 am

Sample Name

4911.04

Field ID

0CW2MW30

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol		•	not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	· ·
74-87-3	Chloromethane	ľ		not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	1
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	<b></b>
75-09-2	Methylene Chloride	·	· · · · · · · · · · · · · · · · · · ·	not detected	2	0.24 ug/L	l''''
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane		,	not detected	70	0.10 ug/L	
108-05-4	Vinyl Acetate			not detected	nie	0.78 ug/L	
78-93-3	2-Butanone		-·· . <u>- ·· - · · · · · · · · · · · · · · · · </u>	not detected	300	0.62 ug/L	
156-59-4	cis-1.2-Dichloroethene		· · · · · · · · · · · · · · · · · · ·	not detected	10	0.17 ug/L	
67-66-3	Chloroform	<del>                                     </del>		not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane		-	not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene	<del>                                     </del>	<del></del>	not detected	1	0.47 ug/L	·····
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.13 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1 1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.40 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.55 ug/L	
10061-01-5	cis-1.3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	<del></del> -
10061-02-6	trans-1,3-Dichloropropene			not detected		0.37 ug/L 0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	nle 3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.48 ug/L 0.32 ug/L	
591-78-6	2-Hexanone		<u> </u>	not detected		0.32 ug/L 0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	nie 10	0.71 ug/L 0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	<del></del> -
100-41-4	Ethylbenzene			not detected	700	0.59 ug/L 0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	T	0.65 ug/L 1.14 ug/L	<del> </del>
1330-20-7	o-Xylene				nle		
100-42-5	Styrene			not detected	nle	0.62 ug/L	
75-25-2		<del></del>		not detected	100	0.56 ug/L	
79-34-5	Bromoform			not detected	4	0.70 ug/L	
	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene		<u> </u>	not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab ID.

EST. CONC.

Q

RT

		TENTAT	IVELY IDENTIFI	ED COMPO	DUNDS			
Lab Name:	FMETL			_ Project:	LTM		OCW2MW	30
NJDEP#:	13461	Ca	se No.: 4911	Locatio	on: CW2	SDO	3 No.:	
Matrix: (soil/w	vater)	WATER	-	La	ab Sample	ID: 4	911.04	
Sample wt/vo	ol:	5.0	(g/ml) ML	La	ab File ID:	V	B004740.D	
Level: (low/m	ned)	LOW	· _	D	ate Receive	ed: 1	1/3/99	_
% Moisture: r	not dec.			D	ate Analyze	ed: 1	1/9/99	_
GC Column:	RTX50	02. ID: <u>0.</u>	25 (mm)	D	ilution Facto	or: <u>1</u> .	.0	<b>-</b>
Soil Extract V	olume:		_ (uL)	S	oil Aliquot V	olume)	ə:	_ (uL)
			CC	NCENTRA	TION UNIT	S:	÷	
Number TiCs	found:	0	(ս <u>զ</u> —	g/L or ug/Kg	) <u>UG/L</u>	<u>-</u>		

COMPOUND NAME

CAS NO.

Data File

VB004773.D

Skelton

Sample Name 4911.05 0CW2MW31

Operator 13 Nov 1999 12:21 am Date Acquired

Field ID Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nie	8:52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane	·		not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane	,		not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone		1	not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	<u> </u>
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1.1-Dichloroethane		1	not detected	70	0.12 ug/L	<del> </del>
108-05-4	Vinyl Acetate		1	not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene		<u> </u>	not detected	10	0.02 ug/L	
67-66-3	Chloroform		† · · · · · · · ·	not detected	6	0.17 ug/L	<del>                                     </del>
75-55-6	1.1,1-Trichloroethane		<del> </del>	not detected	<del>                                     </del>	0.30 ug/L	
56-23-5	Carbon Tetrachloride			not detected	30	0.47 ug/L	
71-43-2	Benzene		<u></u>	not detected	<del>                                     </del>	0.47 ug/L 0.23 ug/L	
107-06-2	1,2-Dichloroethane		<u> </u>	not detected	1	0.23 ug/L 0.18 ug/L	
79-01-6	Trichloroethene		<del>                                     </del>		2	0.18 ug/L 0.23 ug/L	<del> </del>
78-87-5	1,2-Dichloropropane			not detected	1		<del> </del> -
75-27-4	Bromodichloromethane		<del> </del>	not detected	1	0.40 ug/L	<del> </del>
110-75-8			<del> </del>	not detected	1	0.55 ug/L	<u> </u>
10061-01-5	2-Chloroethyl vinyl ether			not detected	nie	0.65 ug/L	
108-10-1	cis-1,3-Dichloropropene 4-Methyl-2-Pentanone		<u> </u>	not detected	nle	0.69 ug/L	
108-10-1	Toluene			not detected	400	0.59 ug/L	
10061-02-6	trans-1,3-Dichloropropene	·		not detected	1000	0.37 ug/L	ļ
79-00-5	1,1,2-Trichloroethane			not detected not detected	nle	0.87 ug/L	
127-18-4	Tetrachloroethene		<del>                                     </del>		3	0.48 ug/L	
591-78-6	2-Hexanone		<del></del>	not detected	1 -1-	0.32 ug/L	
126-48-1	Dibromochloromethane		<del> </del>	not detected not detected	nle 10	0.71 ng/L	<del></del>
108-90-7	Chlorobenzene		<del>,</del>	not detected	10 4	0.86 ug/L 0.39 ug/L	-
100-41-4	Ethylbenzene		<del> </del>	not detected		0.39 ug/L 0.65 ug/L	
1330-20-7	m+p-Xylenes		<del></del>	not detected	700	***	
1330-20-7	o-Xylene		<del></del>		nle	1.14 ug/L	
100-42-5	Styrene			not detected	nle	0.62 ug/L	
75-25-2				not detected	100	0.56 ug/L	
79-34-5	Bromoform			not detected	4	0.70 ug/L	
541-73-1	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
	1,3-Dichlorobenzene		<del></del>	not detected	600	0,55 ug/L	<u> </u>
106-46-7	1,4-Dichlorobenzene	·		not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene	*Iliahar of )		not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Lab Name:	FMETL				Project:	L	.TM		0CW2M	W31
NJDEP#:	13461	Cas	se No.: 4	1911	Locat	ion:	CW2	_ s	DG No.:	
Matrix: (soil/v	water)	WATER	_		L	ab S	Sample	ID:	4911.05	
Sample wt/vo	ol:	5.0	(g/ml)	ML	<u>.</u> L	ab F	File ID:		VB004773.D	
Level: (low/r	ned)	LOW				Date	Receiv	ed:	11/3/99	<u>.                                    </u>
% Moisture:	not dec.		· 		Ε	Date	Analyz	ed:	11/13/99	
GC Column:	RTX50	02. ID: 0.2	<u>5</u> (mr	n)		Diluti	on Fact	or:	1.0	· 
Soil Extract V	/olume:		_ (uL)		S	Soil A	\liquot \	/olu	me:	(uL)
Number TICs	s found:	00	_		CENTR/ . or ug/K		UG/I	_		•
CAS NO.		COMPOU	ND NAM	E		ļ	RT	ES	T. CONC.	Q

Data File Operator VB004742.D

Skelton

Sample Name Field ID 4911.06 0CW2MW32

Date Acquired

9 Nov 1999 6:07 am

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL.	Qualifier
107028	Acrolein	<u> </u>		not detected	50	1.85 ug/L	1
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol		"	not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether	]		not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	1
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	. 2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	***************************************
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept-9

### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

D.

Lab Name:	FMETL		Project: LTM	0CW2MV	/32
NJDEP#:	13461	Case No.: 4911	Location: CW2 SI	DG No.:	
Matrix: (soil/	water)	WATER	Lab Sample ID:	4911.06	
Sample wt/ve	ol:	5.0 (g/ml) ML	Lab File ID:	VB004742.D	
Level: (low/r	med)	LOW	Date Received:	11/3/99	_
% Moisture:	not dec.		Date Analyzed:	11/9/99	
GC Column:	RTX5	02. ID: <u>0.25</u> (mm)	Dilution Factor:	1.0	<u> </u>
Soil Extract \	Volume:	(uL)	Soil Aliquot Volu	me:	_ (uL)
		CO	NCENTRATION UNITS:		
Number TICs	s found:	0 (ug	/L or ug/Kg) UG/L		
CAS NO.		COMPOUND NAME	RT ES	T. CONC.	Q

Data File

VB004743.D

Operator Skelton

Sample Name Field ID 4911.07 0CW2MW33

Date Acquired

9 Nov 1999 6:46 am

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifier
107028	Acrolein			not detected	50	1.85 ug/L	T
107131	Acrylonitrile			not detected	50	2.78 ug/L	<u> </u>
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203 -	Di-isopropyl ether			not detected	nle	0.25 ug/L	· ···
75718	Dichlorodifluoromethane	ł		not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ng/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	<u> </u>
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide	i		not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	-
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	<u> </u>
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane		· ,,	not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene	· ·		not detected	1 1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene		· · · · ·	not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane		********	not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone	<u> </u>		not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.
---------

Lab Name:	FMETL			Project:	LTM		0CW2M	IW33
NJDEP#:	13461	Cas	se No.: 4911	Locati	on: CW2	S[	OG No.:	
Matrix: (soil/v	water)	WATER		L	ab Sample	∍ ID:	4911.07	
Sample wt/vo	ol:	5.0	(g/mi) ML	L	ab File ID:		VB004743.D	)
Level: (low/n	ned)	LOW		D	ate Recei	ved:	11/3/99	·
% Moisture:	not dec.			D	ate Analyz	zed:	11/9/99	
GC Column:	RTX50	02. ID: 0.2	5 (mm)	D	ilution Fac	tor:	1.0	
Soil Extract V	/olume:		_ (uL)	S	oil Aliquot	Volur	ne:	(uL)
			, co	ONCENTRA	ATION UN	ITS:		
Number TICs	s found:	0	(uç -	g/L or ug/Ko	g) <u>UG</u>	/L		
CAS NO.		COMPOU	ND NAME		RT	ES	Γ. CONC.	Q

Data File

Date Acquired

VB004772.D

Operator Skelton

5кепоп 12 Nov 1999 11:42 pm Sample Name 4911.03

Field ID

Dupe

Sample Multiplie 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether	ļ		not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether	, i		not detected	nie	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	"
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
<u>79-00-5</u>	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nie	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

#### 1F

## VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab ID.

EST. CONC.

Q

RT

		TENTATI	ELY IDENT	IFIED COMP	OUNDS			
_ab Name:	FMETL	·		Project:	LTM		Dupe	
NJDEP#:	13461	Cas	e No.: 4911	Locat	ion: CW2	_ SDC	3 No.:	
Matrix: (soil/v	vater)	WATER		. L	ab Sample	ID: 49	911.03	
Sample wt/vo	ol:	5.0	(g/ml) ML		ab File ID:	<u>v</u>	B004772.D	
.evel; (low/n	ned)	LOW		[	Date Receiv	ed: 1	1/3/99	,
% Moisture: r	not dec.		<del></del>		Date Analyz	ed: <u>1</u>	1/12/99	
GC Column:	RTX50	0.2 ID: 0.2	5 (mm)	[	Dilution Fact	tor: <u>1.</u>	.0_	
Soil Extract V	olume:		_ (uL)		Soil Aliquot	Volume	e:	(uL)
				CONCENTRA	ATION UNI	TS:		
lumber TICs	found:	0	-	(ug/L or ug/K	g) <u>UG/</u>	L	· —	•

COMPOUND NAME

CAS NO.

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

### NJDEP Certification #13461

Data File Name

BN04028.D

Sample Name

Sblk317

Operator

Date Acquired

Bhaskar 8-Nov-99 Misc Info

Sblk317 A 991108

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Oualifiers
110-86-1	Pyridine			not detected	NLE	1.83 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug/L	
62-53-3	Aniline			not detected	NLE	1.63 ug/L	
108-95-2	Phenol			not detected	4000	0:82 ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 ug/L	
95-57-8	2-Chlorophenol	1		not detected	40	2.00 ug/L	<u> </u>
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug/L	
106-46-7	1.4-Dichlorobenzene			not detected	75	1.19 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/L	
95-50-1	1,2-Dichlorobenzene		·	not detected	600	1.13 ug/L	
95-48-7	2-Methylphenol	1		not detected	NLE	1.17 ug/L	,
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug/L	<u> </u>
621-64-7	n-Nitroso-di-n-propylamine		· · · · · · · · · · · · · · · · · · ·	not detected	20	0.80 ug/L	<u> </u>
67-72-1	Hexachioroethane	-		not detected	10	1.50 ug/L	
98-95-3	Nitrobenzene		-	not detected	10	0.97 ug/L	
78-59-1	Isophorone			not detected	100	1.01 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug/L	
105-67-9	2.4-Dimethylphenol			not detected	100	2.62 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug/L	
120-83-2	2,4-Dichlorophenol	1		not detected	20	1.33 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27 ug/L	
106-47-8	4-Chloroaniline	1		not detected	NLE	1.09 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug/L	
95-95-4	2,4,5-Trichlorophenol		<u> </u>	not detected	700	1.28 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug/L	
83-32-9	Acenaphthene.			not detected	400	1.10 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug/L	

### Semi-Volatile Analysis Report Page 2

Data File Name

BN04028.D

Sample Name

Sblk317

Operator

191-24-2

Bhaskar

Misc Info

Sblk317 A 991108

Date Acquired

8-Nov-99

Sample Multiplier

1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
121-14-2	2.4-Dinitrotoluene	T		not detected	10	0.87	ug/L	Juanners
84-66-2	Diethylphthalate			not detected	5000	1.62		
86-73-7	Fluorene			not detected	300	0.99		
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10		ļ
100-01-6	4-Nitroaniline			not detected	NLE	1.05		·
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	-	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01		
103-33-3	Azobenzene			not detected	NLE	0.67		
101-55-3	4-Bromophenyl-phenylether	1 1		not detected	NLE	0.76		
118-74-1	Hexachlorobenzene			not detected	10	0.94		
87-86-5	Pentachlorophenol			not detected	1	1.42		
85-01-8	Phenanthrene	1		not detected	NLE	1.23		
120-12-7	Anthracene			not detected	2000	1.12		
84-74-2	Di-n-butylphthalate			not detected	900	1.70		
206-44-0	Fluoranthene			not detected	300	1.64		
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25		
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
<u>56-55-3</u>	Benzo[a]anthracene			not detected \	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
			1	—··				

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

Benzo[g,h,i]perylene

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

0.84 ug/L

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field ID:
-----------

Lab Name:	FMETL	·	Lab Co	de 13461		Sblk3	317
Project:	LTM	Case No.: 4911	Loca	tion: CW2	 SD	G No:	
Matrix: (soil/	water)	WATER		Lab Sample	ə ID: 3	Sblk317	
Sample wt/v	ol:	1000 (g/ml) ML	·	Lab File ID:	: <u>F</u>	3N04028.D	·
Level: (low/r	med)	LOW		Date Recei	ved: _1	11/3/99	<u> </u>
% Moisture:		decanted: (Y/N)	<u>N</u>	Date Extrac	ted: 1	11/8/99	
Concentrate	d Extract	Volume: <u>1000</u> (uL)		Date Analyz	zed: _1	1/8/99	~
Injection Vol	ume: <u>1.</u>	0 (uL)		Dilution Fac	ctor: 1	1.0	
GPC Cleanu	p: (Y/N)	NpH:	_				
Number TICs	s found:	<u> </u>	CONCE (ug/L or	NTRATION ug/Kg)	UNIT:		
CAS NUME	BER	COMPOUND NAME		RT	EST	CONC.	Q

### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BN04032.D

Sample Name

4911.02

Operator

Bhaskar

Misc Info

Field Blank

Date Acquired 8-Nov-99

Sample Multiplier

1

Regulatory

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	- Vanniero
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91		
62-53-3	Aniline			not detected	NLE	1.63		
108-95-2	Phenol		· · · · · · · · · · · · · · · · · · ·	not detected	4000	0.82		
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	_	
95-57-8	2-Chlorophenol			not detected	40	2.00	*****	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21		
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19		
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	_
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L .	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39		
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	·
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ng/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
<u>59-50-7</u>	4-Chloro-3-methylphenol			not detected	NLE	1.39 1	ug/L	
91-57-6	2-Methylnaphthalene	1 1		not detected	NLE	1.08	ug/L	
<u>77-47-4</u>	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol	$\perp$		not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 t	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ıg/L	
88-74-4	2-Nitroaniline	<u> </u>		not detected	NLE	0.79 t	ıg/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 t	1g/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96 ւ	1g/L	
606-20-2	2,6-Dinitrotoluene	<b> </b>		not detected	NLE	0.81	ıg/L	
99-09-2	3-Nitroaniline	<b> </b>		not detected	NLE	0.79	19/L	
83-32-9	Acenaphthene	1		not detected	400	1.10 t	ıg/L	
51-28-5	2,4-Dinitrophenol	1 1		not detected	40	1.44 r	ıg/L	
132-64-9	Dibenzofuran	ļ., ļ.		not detected	NLE	1.00 t	ıg/L	
100-02-7	4-Nitrophenol	<u> </u>		not detected	NLE	1. <b>0</b> 6 r	ıg/L	•

### Semi-Volatile Analysis Report Page 2

Data File Name

BN04032.D

Bhaskar

Operator Date Acquired 8-Nov-99 Sample Name

4911.02

Misc Info

Field Blank

Sample Multiplier

1

_CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		
121-14-2	2,4-Dinitrotoluene	T	Kesponse	not detected	10	0.87	ne/I	Qualifiers
84-66-2	Diethylphthalate	1		not detected	5000	1.62		l. 
86-73-7	Fluorene			not detected	300	0.99		<u> </u>
7005-72-3	4-Chlorophenyl-phenylether	-		not detected	NLE	1.10		<u></u>
100-01-6	4-Nitroaniline			not detected	NLE	1.05		
534-52-1	4,6-Dinitro-2-methylphenol	_		not detected	NLE	1.03		
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01		
103-33-3	Azobenzene			not detected	NLE	0.67	-	<del></del>
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76		
118-74-1	Hexachlorobenzene			not detected	10	0.94		
87-86-5	Pentachlorophenol			not detected	1	1.42		
85-01-8	Phenanthrene			not detected	NLE	1.23		
120-12-7	Anthracene			not detected	2000	1.12		
84-74-2	Di-n-butylphthalate			not detected	900	1.70		
206-44-0	Fluoranthene			not detected	300	1.64		
92-87-5	Benzidine			not detected	50	4.18		
129-00-0	Pyrene			not detected	200	1.25		·
85-68-7	Butylbenzylphthalate			not detected	100	1.05		
56-55-3	Benzo[a]anthracene			not detected	10	1.19		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75		
218-01-9	Chrysene		***	not detected	20	1.38		
	bis(2-Ethylhexyl)phthalate	23.84	145664	4.72 ug/L	30	1.74		
117-84-0	Di-n-octylphthalate			not detected	100	1.44 1		
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	1	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29		
50-32-8	Benzo[a]pyrene			not detected	20	1.05 t		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 u	ıg/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 t		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 t	19/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ENTATIVELY	IDENTIFIED COMPOUNDS	

Field ID:

Lab Name:	FMETI	<b>-</b>	Lab Co	de 13461		Field B	lank
Project:	LTM	Case No.: 4911	Loca	tion: CW2	SD	G No:	
Matrix: (soil/	water)	WATER		Lab Sample	ID: 4	1911.02	
Sample wt/v	ol:	1000 (g/ml) ML		Lab File ID:	<u>E</u>	3N04032.D	
Level: (low/r	med)	LOW		Date Receiv	ed: _1	1/3/99	
% Moisture:		decanted: (Y/N)	N.	Date Extract	ed: 1	1/8/99	
Concentrated	d Extract	t Volume: 1000 (uL)		Date Analyz	ed: <u>1</u>	1/8/99	
Injection Volu	ume: <u>1</u>	.0 (uL)		Dilution Fact	or: 1	.0	
GPC Cleanu	p: (Y/N)	<u>N</u> pH:					- <del></del>
•			CONCE	NTRATION (	JNITS	S:	``
Number TICs	s found:	2	(ug/L or	ug/Kg) <u>l</u>	JG/L		
CAS NUME	BER	COMPOUND NAME		RT	EST	. CONC.	Q
1		unknown		29.01		160	i

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

### **NJDEP Certification #13461**

Data File Name

Date Acquired

BN04034.D

Sample Name

4911.04

Operator

Bhaskar 8-Nov-99 Misc Info

0CW2MW30

Sample Multiplier

1

G. 4. G. 11			_		Regulatory Level (ug/L)*			
CAS#	Name	R.T.	Response	Result	<del></del>	MDL	<u> </u>	Oualifiers
110-86-1	Pyridine	<u> </u>		not detected	NLE	1.83	ug/L	<u> </u>
62-75-9	N-nitroso-dimethylamine	<del> </del>		not detected	20	0.91	ug/L	
62-53-3	Aniline	<del> </del> -		not detected	NLE		ug/L	
108-95-2	Phenol	<del> </del>		not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28		
95-57-8	2-Chlorophenol	-		not detected	40		ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21		<u></u>
106-46-7	1,4-Dichlorobenzene	1		not detected	75	1.19		
100-51-6	Benzyl alcohol	<del>                                     </del>		not detected	NLE	1.02		
95-50-1	1,2-Dichlorobenzene	<del> </del>		not detected	_600	1.13	ug/L	
95-48-7	2-Methylphenol	1 1		not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether	11	<del> </del>	not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol	<b></b>	<del> </del>	not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine	ļ		not detected	· 20	0.80	ug/L	
67-72-1	Hexachloroethane	1		not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene	<u> </u>		not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol	<u>                                     </u>		not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene	<u> </u>		not detected	9	1.22	ng/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	-
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52		
208-96-8	Acenaphthylene			not detected	NLE	0.96		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81		
99-09-2	3-Nitroaniline			not detected	NLE	0.79 1		
83-32-9	Acenaphthene			not detected	400	1.10		
51-28-5	2,4-Dinitrophenol			not detected	40	1.44		
132-64-9	Dibenzofuran			not detected	NLE	1.00		
100-02-7	4-Nitrophenol			not detected	NLE	1.06		

### Semi-Volatile Analysis Report Page 2

Data File Name

BN04034.D

Sample Name

4911.04

Operator

Bhaskar

Misc Info

0CW2MW30

Date Acquired

8-Nov-99

Sample Multiplier

1

			•		Regulatory Level (ug/L)*		
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/I	<u>.   </u>
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/I	,
86-73-7	Fluorene			not detected	300	0.99 ug/I	<u>,                                      </u>
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/1	.
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	,
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine		i	not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/I	,
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	,
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	. [
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene		,	not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
<u> 207-08-9</u>	Benzo[k]fluoranthene		<u></u>	not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field
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6

38

18

JN

		. =			00.100			
Lab Name:	FMET			Lab Co	de <u>13461</u>		0CW2M	W30
Project:	LTM_	Ca	se No.: 4911	Loca	tion: CW2	S[	OG No:	
Matrix: (soil/	water)	WATER	_	į	Lab Sample	ıD:	4911.04	
Sample wt/v	ol:	1000	(g/ml) ML		Lab File ID:		BN04034.D	
Level: (low/r	ned)	LOW		1	Date Recei	ved:	11/3/99	
% Moisture:		deca	anted: (Y/N)	N I	Date Extrac	ted:	11/8/99	
Concentrate	d Extrac	t Volume: 1	000 (uL)		Date Analyz	zed:	11/8/99	
Injection Vol	ume: 1	.0 (uL)		ı	Dilution Fac	tor:	1.0	
GPC Cleanu	p: (Y/ <b>N</b> )	N	pH:			-		
		•	·	CONCE	NTRATION	UNIT	S:	
Number TICs	s found:	. 5	_	(ug/L or	ug/Kg)	UG/L	·	
CAS NUME	BER	COMPOU	ND NAME		R⊤	EST	Γ. CONC.	Q
1.		unknown			9.33		13	
2.		unknown			15.03		6	J

19.53

28.87

29.14

Hexadecanoic acid

unknown

unknown

3. 000057-10-3

4.

### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name

Date Acquired

Operator

BN04035.D

Bhaskar

8-Nov-99

Sample Name

4911.05

Misc Info

0CW2MW31

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
110-86-1	Pyridine	T		not detected	NLE	T	ug/L	Quanters
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91		
62-53-3	Aniline			not detected	NLE	1.63		
108-95-2	Phenol			not detected	4000	0.82		
111-44-4	bis(2-Chloroethyl)ether			not detected	10		ug/L	
95-57-8	2-Chlorophenol		· · =	not detected	40	2.00		
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21		
106-46-7	1,4-Dichlorobenzene			not detected	75		ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02		
95-50-1	1,2-Dichlorobenzene		<u> </u>	not detected	600	1.13		
95-48-7	2-Methylphenol			not detected	NLE	1.17		
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.39		
106-44-5	4-Methylphenol	"		not detected	NLE	0.35		
621-64-7	n-Nitroso-di-n-propylamine	1 1		not detected	20	0.80		
67-72-1	Hexachloroethane			not detected	10	1.50		
98-95-3	Nitrobenzene		•	not detected	10	0.97		
78-59-1	Isophorone			not detected	100	1.01		
88-75-5	2-Nitrophenol			not detected	NLE	1.92		
105-67-9	2,4-Dimethylphenol			not detected	100	2.62		·
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21		
120-83-2	2,4-Dichlorophenol			not detected	20	1.33		
65-85-0	Benzoic Acid			not detected	NLE	1.75		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22		
91-20-3	Naphthalene			not detected	NLE	1.27		
106-47-8	4-Chloroaniline			not detected	NLE	1.09		
87-68-3	Hexachlorobutadiene			not detected	1	0.71	12/L	
<u>59-50-7</u>	4-Chloro-3-methylphenol			not detected	NLE	1.39 u	12/L	
91-57-6	2-Methylnaphthalene	<u> </u>		not detected	NLE	1.08 ι	12/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 t	ıg/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 u	12/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 1	1g/L	-
91-58-7	2-Chloronaphthalene	<u> </u>		not detected	NLE	1.01 t	ıg/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 t	1g/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52 u		
208-96-8	Acenaphthylene		_	not detected	NLE	0.96 u		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 u		
99-09-2	3-Nitroaniline			not detected	NLE	0.79 u		
83-32-9	Acenaphthene			not detected	400	1.10 u		$\overline{}$
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 u		
132-64-9	Dibenzofuran			not detected	NLE	1.00 u	_	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ս		

### Semi-Volatile Analysis Report Page 2

Data File Name

BN04035.D

Bhaskar

Operator Date Acquired 8-Nov-99 Sample Name

4911.05

Misc Info

0CW2MW31

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
121-14-2	2,4-Dinitrotoluene	T	жеорольс	not detected	10	0.87	ug/L	Quantiers
84-66-2	Diethylphthalate			not detected	5000	1.62		
86-73-7	Fluorene	1 1		not detected	300	0.99		
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10		
100-01-6	4-Nitroaniline			not detected	NLE	1.05		· · · · · · · · · · · · · · · · · · ·
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98		
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67		
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42		
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene		l	not detected	NLE	0.84	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field	1 ID:
-------	-------

Lab Name:	FMETL			Lab Cod	de 13461		0CW2MW31
Project:	LTM	Case No.:	4911	=	ion: CW2	SI	_
Matrix: (soil/	water)	WATER		 [	_ab Sample	ID:	4911.05
Sample wt/v	ol:	1000 (g/ml)	ML	_	_ab File ID:		BN04035.D
Level: (low/r	ned)	LOW		[	Date Receiv	red:	11/3/99
% Moisture:		decanted: (	(Y/N) <u>1</u>	<u>v</u> [	Date Extrac	ted:	11/8/99
Concentrate	d Extract	Volume: <u>1000</u>	(uL)		Date Analyz	ed:	11/8/99
Injection Vol	ume: <u>1.0</u>	) (uL)		E	Dilution Fac	tor:	1.0
GPC Cleanu	p: (Y/N)	<u>N</u> pH: _	· <u> </u>				
				CONCE	NTRATION	UNIT	rs:
Number TICs	s found:	5		(ug/L or ι	ıg/Kg)	UG/L	<u>-                                      </u>

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	5.88	5	J
2. 000057-10-3	Hexadecanoic acid	19.52	5	JN
3.	unknown	25.89	16	J
4.	unknown	27.94	180	J
5.	unknown	29.15	96	J

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

### NJDEP Certification #13461

Data File Name

Date Acquired

BN04036.D

Sample Name

4911.06

Operator

Bhaskar 8-Nov-99 Misc Info

0CW2MW32

Sample Multiplier

1

110.86-1	CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		<b>O</b> ualifiers
10.51-5-9   N-aitroso-dimethylamine   not detected   20   0.91 mg/L			1			NLE	T 1		Quantiers
108.95-2   Phenol						1			
108-95-2				<del></del>				·	
111-44-4   bis(2-Chlorochev)  bether				<u>-</u>		T			
25-57-8   2-Chlorophenol			+ - 1			1			· · ·
1,3-Dichlorobenzene   not detected   500   1,21   ug/L     106-46-7   1,4-Dichlorobenzene   not detected   75   1,9   ug/L     109-31-6   Benzyl alcohol   not detected   NLE   1.02   ug/L     109-31-6   Benzyl alcohol   not detected   NLE   1.02   ug/L     105-46-7   1,2-Dichlorobenzene   not detected   600   1,3   ug/L     15-48-7   2-Methylphenol   not detected   NLE   1.71   ug/L     106-44-5   4-Methylphenol   not detected   300   1,3   ug/L     106-44-5   4-Methylphenol   not detected   300   1,3   ug/L     106-44-5   4-Methylphenol   not detected   20   0.80   ug/L     106-44-7   n-Nitroso-di-n-propylamine   not detected   10   1.50   ug/L     107-72-1   Hexachlorochane   not detected   10   1.50   ug/L     107-72-1   Borborone   not detected   10   1.50   ug/L     108-95-3   Nitrobenzene   not detected   10   1.50   ug/L     108-95-3   Nitrobenzene   not detected   100   1.01   ug/L     108-67-9   2,-A-Dimethylphenol   not detected   100   1.01   ug/L     108-67-9   2,-A-Dimethylphenol   not detected   100   2.62   ug/L     111-91-1   bis[2-Chlorochboxylmethane   not detected   NLE   1.21   ug/L     120-83-2   2,-A-Dimethylphenol   not detected   NLE   1.21   ug/L     120-83-2   1,2-A-Thichlorobenzene   not detected   NLE   1.21   ug/L     120-83-2   1,2-A-Thichlorobenzene   not detected   NLE   1.21   ug/L     1,2-A-Thichlorobenzene   not detected   NLE   1.27   ug/L     1,2-A-Thichlorobenzene   not detected   NLE   1.27   ug/L     1,2-A-Thichlorobenzene   not detected   NLE   1.27   ug/L     1,2-A-Thichlorobenzene   not detected   NLE   1.27   ug/L     1,2-A-Thichlorobenzene   not detected   NLE   1.39   ug/L     1,2-A-Thichlorobenzene   not detected   NLE   1.39   ug/L     1,2-A-Thichlorobenzene   not detected   NLE   1.39   ug/L     1,2-A-Thichlorobenzene   not detected   NLE   1.39   ug/L     1,2-A-Thichlorobenzene   not detected   NLE   1.39   ug/L     1,2-A-Thichlorobenzene   not detected   NLE   1.39   ug/L     1,2-A-Thichlorobenzene   not detected   NLE   1.09   ug/L     1,2-A-Thichlorobenene			<u> </u>			<del>                                     </del>			
106-46-7	<del></del>		<del>                                     </del>					1	
100-51-6   Benzyl alcohol			1				1	~	
1.2-Dichlorobenzene   not detected   600   1.13 ug/L     55.48-7   2.Methylphenol   not detected   N.I.E   1.17 ug/L     3063-32-9 bis/2-chlorospropylether   not detected   N.I.E   0.35 ug/L     106-44-5   4-Methylphenol   not detected   N.I.E   0.35 ug/L     106-44-5   4-Methylphenol   not detected   0.0   0.80 ug/L     107-72-1   Hexachlorocthane   not detected   10   1.50 ug/L     107-72-1   Hexachlorocthane   not detected   10   0.97 ug/L     107-72-1   Isophorone   not detected   10   0.97 ug/L     108-89-53   Nitrobenzone   not detected   10   0.97 ug/L     18-59-1   Isophorone   not detected   100   1.01 ug/L     18-78-59-1   Isophorone   not detected   100   1.01 ug/L     18-78-59-2   2-Nitrobenol   not detected   100   2.62 ug/L     111-91-1   bis/2-Chlorocthoxylmethane   not detected   100   2.62 ug/L     111-91-1   bis/2-Chlorocthoxylmethane   not detected   100   2.62 ug/L     112-83-2   2.4-Dichlorophenol   not detected   0.1   3.3 ug/L     120-83-2   2.4-Dichlorophenol   not detected   0.1   3.3 ug/L     120-83-2   2.4-Dichlorophenol   not detected   0.1   3.3 ug/L     120-82-1   1.2-Trichlorobenzene   not detected   0.1   2.2 ug/L     11-20-3   Naphthalene   not detected   N.I.E   1.75 ug/L     11-20-3   Naphthalene   not detected   N.I.E   1.27 ug/L     106-47-8   4-Chloro-3-methylphenol   not detected   N.I.E   1.09 ug/L     17-57-6   2-Methylmaphthalene   not detected   N.I.E   1.09 ug/L     17-57-6   2-Methylmaphthalene   not detected   N.I.E   1.08 ug/L     18-58-7   2-Chloro-3-methylphenol   not detected   N.I.E   1.09 ug/L     19-58-7   2-Chloronaphthalene   not detected   N.I.E   1.09 ug/L     19-58-7   2-Chloronaphthalene   not detected   N.I.E   1.09 ug/L     19-58-7   2-Chloronaphthalene   not detected   N.I.E   0.09 ug/L     19-58-7   2-Chloronaphthalene   not detecte						· · · · · · · · · · · · · · · · · · ·			
25-48-7   2-Methylphenol   not detected   N.E.   1.17   ug/L     39638-32-9   bis(2-chloroisopropyl)ether   not detected   300   1.39   ug/L     106-44-5   4-Methylphenol   not detected   20   0.80   ug/L     106-44-5   4-Methylphenol   not detected   20   0.80   ug/L     67-72-1   Hexachloroethane   not detected   10   1.50   ug/L     83-95-3   Nitrobenzene   not detected   10   0.97   ug/L     83-95-1   Isophorone   not detected   10   0.97   ug/L     105-67-9   2-Nitrophenol   not detected   100   1.01   ug/L     105-67-9   2-A-Dimethylphenol   not detected   100   2.62   ug/L     111-91-1   bis(2-Chloroethane   not detected   100   2.62   ug/L     111-91-1   bis(2-Chloroethane   not detected   100   2.62   ug/L     111-91-1   bis(2-Chloroethoxy)methane   not detected   1.175   ug/L     120-83-2   2-Dichlorophenol   not detected   20   1.33   ug/L     120-83-2   1.2-A-Tichlorobenzene   not detected   20   1.33   ug/L     120-83-2   1.2-A-Tichlorobenzene   not detected   N.LE   1.75   ug/L     120-3   Naphhalene   not detected   N.LE   1.09   ug/L     120-3   Naphhalene   not detected   N.LE   1.09   ug/L     106-47-8   4-Chloroaniline   not detected   N.LE   1.09   ug/L     106-47-8   4-Chloroaniline   not detected   N.LE   1.09   ug/L     105-50-7   4-Chloro-j-methylphenol   not detected   N.LE   1.09   ug/L     105-50-7   4-Chloro-j-methylphenol   not detected   N.LE   1.09   ug/L     105-50-7   4-Chloro-j-methylphenol   not detected   N.LE   1.09   ug/L     105-50-7   4-Chloro-j-methylphenol   not detected   N.LE   1.09   ug/L     105-50-7   4-Chloro-j-methylphenol   not detected   N.LE   1.09   ug/L     105-50-7   4-Chloro-j-methylphenol   not detected   N.LE   1.09   ug/L     105-50-7   4-Chloro-j-methylphenol   not detected   N.LE   1.09   ug/L     105-50-7   4-Chlorophenol							T		
1963-8-32-9   bis(2-chloroisopropyl)ether			<del>                                     </del>					-	
106-44-5			1 -				1 "		
1.00			<del>                                     </del>			· · · · ·	1		· · · · · · · · · · · · · · · · · · ·
			11						
Nitrobenzene   not detected   10   0.97   ug/L			1 1						·
100   1.01   1.02   1						T			
105-67-9   2.4-Dimethylphenol   not detected   NLE   1.92   ug/L     105-67-9   2.4-Dimethylphenol   not detected   100   2.62   ug/L     111-91-1   bis/2-Chloroethoxy)methane   not detected   NLE   1.21   ug/L     120-83-2   2.4-Dichlorophenol   not detected   20   1.33   ug/L     120-82-1   1.2.4-Trichlorobenzene   not detected   9   1.22   ug/L     120-82-1   1.2.4-Trichlorobenzene   not detected   9   1.22   ug/L     106-47-8   4-Chloroaniline   not detected   NLE   1.09   ug/L     106-47-8   4-Chloroaniline   not detected   NLE   1.09   ug/L     106-47-8   4-Chloroaniline   not detected   NLE   1.09   ug/L     107-47-4   Hexachlorobutadiene   not detected   NLE   1.39   ug/L     107-47-4   Hexachlorocyclopentadiene   not detected   NLE   1.08   ug/L     107-47-5   2-Methylnaphthalene   not detected   NLE   1.08   ug/L     107-47-4   Hexachlorocyclopentadiene   not detected   50   1.32   ug/L     108-95-4   2.4.5-Trichlorophenol   not detected   20   1.78   ug/L     107-88-7   2-Chloronaphthalene   not detected   NLE   1.01   ug/L     108-96-8   Acenaphthylene   not detected   NLE   0.79   ug/L     108-96-8   Acenaphtylene   not detected   NLE   0.96   ug/L     108-96-8   Acenaphtylene   not detected   NLE   0.98   ug/L     108-96-8   Acenaphtylene   not detected   NLE   0.99   ug/L     108-96-8   Acenaphtylene   not detected   NLE   0.99   ug/L     108-96-8   Acenaphtylene   not detected   NLE   0.99   ug/L     108-96-8   Acenaphtylene   not detected   NLE   0.99   ug/L     108-96-8   Acenaphthene   not detected   NLE   0.99   ug/L     108-96-8   Acenaphthene   not detected   NLE   0.99   ug/L     108-96-8   Acenaphthene   not detected   NLE   0.99   ug/L     108-96-8   Acenaphthene   not detected   NLE   0.99   ug/L     108-96-8   Acenaphthene   not detected   NLE   0.99   ug/L     108-96-8   Acenaphthene   not detected   NLE   0.99   ug/L     108-96-96   Acenaphthene   not detected   NLE   0.99   ug/L     108-96-96   Acenaphthene   not detected   NLE   0.99   ug/L     108-96-96   Acenaphthene   not det			1						
105-67-9   2.4-Dimethylphenol   not detected   100   2.62 ug/L     111-91-1   bis(2-Chloroethoxy)methane   not detected   NLE   1.21 ug/L     120-83-2   2.4-Dichlorophenol   not detected   20   1.33 ug/L     155-85-0   Benzoic Acid   not detected   NLE   1.75 ug/L     120-82-1   1.2.4-Trichlorobenzene   not detected   9   1.22 ug/L     191-20-3   Naphthalene   not detected   NLE   1.27 ug/L     106-47-8   4-Chloroaniline   not detected   NLE   1.09 ug/L     137-68-3   Hexachlorobutadiene   not detected   NLE   1.09 ug/L     137-68-3   Hexachlorobutadiene   not detected   NLE   1.39 ug/L     195-50-7   4-Chloro-3-methylphenol   not detected   NLE   1.39 ug/L     195-76   2-Methylnaphthalene   not detected   NLE   1.08 ug/L     17-47-4   Hexachlorocyclopentadiene   not detected   50   1.32 ug/L     18-06-2   2.4.6-Trichlorophenol   not detected   20   1.78 ug/L     195-59-4   2.4.5-Trichlorophenol   not detected   NLE   1.01 ug/L     195-88-7   2-Chloronaphthalene   not detected   NLE   1.01 ug/L     195-88-7   2-Chloronaphthalene   not detected   NLE   0.79 ug/L     198-74-4   2-Nitroaniline   not detected   NLE   0.79 ug/L     198-96-8   Acenaphthylene   not detected   NLE   0.96 ug/L     199-90-2   3-Nitroaniline   not detected   NLE   0.81 ug/L     199-90-2   3-Nitroaniline   not detected   NLE   0.79 ug/L     198-55   2.4-Dinitrotlouene   not detected   NLE   0.79 ug/L     198-55   2.4-Dinitrophenol   not detected   NLE   0.79 ug/L     198-55   2.4-Dinitrophenol   not detected   NLE   0.79 ug/L     199-90-2   3-Nitroaniline   not detected   NLE   0.79 ug/L     198-55   2.4-Dinitrophenol   not detected   NLE   0.79 ug/L     198-55   2.4-Dinitrophenol   not detected   NLE   0.79 ug/L     198-55   2.4-Dinitrophenol   not detected   NLE   0.79 ug/L     198-55   2.4-Dinitrophenol   not detected   NLE   0.79 ug/L     198-55   2.4-Dinitrophenol   not detected   NLE   0.79 ug/L     198-55   2.4-Dinitrophenol   not detected   NLE   0.00 ug/L			1 1						<u></u>
111-91-1   bis(2-Chloroethoxy)methane			+ +			<u> </u>			
120-83-2   2,4-Dichlorophenol   not detected   20   1.33 ug/L			+						
1.20									
120-82-1   1,2,4-Trichlorobenzene   not detected   9   1,22   ug/L			╅	-		· · · · ·			
			1 1						<u> </u>
106-47-8			<del> </del>						
Hexachlorobutadiene			1						<del></del>
1.39 ug/L   1.39			1						
2-Methylnaphthalene			1 -						
	***								
1.75   1.75	77-47-4		1 1				-		
2,4,5-Trichlorophenol   not detected   700   1.28 ug/L     31-58-7   2-Chloronaphthalene   not detected   NLE   1.01 ug/L     38-74-4   2-Nitroaniline   not detected   NLE   0.79 ug/L     31-11-3   Dimethylphthalate   not detected   7000   1.52 ug/L     308-96-8   Acenaphthylene   not detected   NLE   0.96 ug/L     306-20-2   2,6-Dinitrotoluene   not detected   NLE   0.81 ug/L     39-09-2   3-Nitroaniline   not detected   NLE   0.79 ug/L     33-32-9   Acenaphthene   not detected   400   1.10 ug/L     31-28-5   2,4-Dinitrophenol   not detected   NLE   1.00 ug/L     32-64-9   Dibenzofuran   not detected   NLE   1.00 ug/L     31-28-5   2,4-Dinitrophenol   not detected   NLE   1.00 ug/L     32-64-9   Dibenzofuran   not detected   NLE   1.00 ug/L     31-28-5   NLE   1.00 ug/L     32-64-9   Dibenzofuran   not detected   NLE   1.00 ug/L     31-28-5   NLE   1.00 ug/L     32-64-9   Dibenzofuran   not detected   NLE   1.00 ug/L     33-32-9   NLE   1.00 ug/L     34-32-9   NLE   1.00 ug/L     35-32-9   NLE   1.00 ug/L			•						
2-Chloronaphthalene			<del> </del>					_	
18-74-4   2-Nitroaniline		· · · · · · · · · · · · · · · · · · ·							
	88-74-4								
1.28   1.28			1.						
106-20-2   2,6-Dinitrotoluene   not detected   NLE   0.81 ug/L     109-09-2   3-Nitroaniline   not detected   NLE   0.79 ug/L     13-32-9   Acenaphthene   not detected   400   1.10 ug/L     11-28-5   2,4-Dinitrophenol   not detected   40   1.44 ug/L     13-64-9   Dibenzofuran   not detected   NLE   1.00 ug/L     100-00-00-00-00-00-00-00-00-00-00-00-00-								-	
9-09-2   3-Nitroaniline			1 1						
3-32-9   Acenaphthene   not detected   400   1.10   ug/L			╅┈╌┼						
1-28-5 2,4-Dinitrophenol not detected 40 1.44 ug/L 32-64-9 Dibenzofuran not detected NLE 1.00 ug/L			<del>  </del>						
32-64-9 Dibenzofuran not detected NLE 1.00 ug/L		<u> </u>	1 1	···					
20.00 g		- I	<del>   </del>						
	100-02-7		<del>                                     </del>						<del></del>

### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

Operator

Bhaskar 8-Nov-99

BN04036.D

Sample Name

4911.06

Misc Info

0CW2MW32

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Oualifiers
121-14-2	2,4-Dinitrotoluene		recopounc	not detected	10	0.87 ug/I	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/I	_
86-73-7	Fluorene			not detected	300	0.99 ug/I	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/I	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/I	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/I	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	1
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene			not detected	2000	1.12 ug/L	.
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Ругепе			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate	<u> </u>		not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene	1		not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene	<u> </u>		not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
<u>193-39-5</u>	Indeno[1,2,3-cd]pyrene	$\bot$		not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene	<u> </u>		not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene		i	not detected	NLE	0.84 ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

Page 2 of 2

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

_				
-NIAIIV	/HIY I	DEMILIEIE	TO COMPOUNDS	

Fie	ld I	D:

58

		,			001111 001120		
Lab Name:	FMETL	-		[	_ab Code <u>13461</u>	0CW2N	IW32
Project:	LTM	Ca	ase No.: <u>4911</u>		Location: CW2 S	DG No:	
Matrix: (soil/v	water)	WATER	_		Lab Sample ID:	4911.06	
Sample wt/vo	ol:	1000	g/ml) ML		Lab File ID:	BN04036.D	
Level: (low/n	ned)	LOW			Date Received:	11/3/99	
% Moisture:		dec	anted: (Y/N)	N	Date Extracted:	11/8/99	
Concentrated	d Extract	Volume:	1000 (uL)		Date Analyzed:	11/8/99	<u>.                                    </u>
Injection Volu	ıme: <u>1</u> .	0 (uL)			Dilution Factor:	1.0	
GPC Cleanup	p: (Y/N)	N	рН:				
			•				
			C	ONCENTRATION UNIT	ΓS:		
Number TICs found: 3			(u	ıg/L or ug/Kg) <u>UG/</u> I	-		
CAS NUMB	BER	COMPO	JND NAME		RT ES	T. CONC.	Q
1. 000057	7-10-3	Hexadeca	noic acid		19.53	4	.iN

27.97

28.78

unknown

unknown

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

### **NJDEP Certification #13461**

Data File Name

BN04037.D

Sample Name

4911.07

Operator

Date Acquired

Bhaskar 9-Nov-99 Misc Info

0CW2MW33

Sample Multiplier

1

0.101	·				Regulatory Level (ug/L)*			
CAS#	Name	R.T.	Response	Result	1	MDL	<del></del>	<u>Oualifiers</u>
110-86-1	Pyridine		•	not detected	NLE		ug/L	<u> </u>
62-75-9	N-nitroso-dimethylamine	<del>                                     </del>		not detected	20		ug/L	<del></del>
62-53-3	Aniline	<del>                                     </del>		not detected	NLE		ug/L	<u> </u>
108-95-2	Phenol	<del>                                     </del>		not detected	4000	0.82		
111-44-4	bis(2-Chloroethyl)ether			not detected	10		ug/L	[
95-57-8	2-Chlorophenol			not detected	40	i	ug/L	1
541-73-1	1,3-Dichlorobenzene			not detected	600		ug/L	<u> </u>
106-46-7	1,4-Dichlorobenzene			not detected	75	·	ug/L	
100-51-6	Benzyl alcohol	<del>                                     </del>		not detected	NLE	1.02	ug/L	<u></u>
95-50-1	1,2-Dichlorobenzene	ļ		not detected	600	1.13	ug/L	
<u>95-48-7</u>	2-Methylphenol	ļ	<del></del>	not detected	NLE	1.17	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether	<b> </b>		not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol	ļ		not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L ·	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	•
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.79	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52		
208-96-8	Acenaphthylene			not detected	NLE	0.96		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81		
99-09-2	3-Nitroaniline			not detected	NLE	0.79		
83-32-9	Acenaphthene			not detected	400	1.10		
51-28-5	2,4-Dinitrophenol			not detected	40	1.44	- 1	
132-64-9	Dibenzofuran			not detected	NLE	1.00		-
100-02-7	4-Nitrophenol			not detected	NLE	1.06		

### Semi-Volatile Analysis Report Page 2

Data File Name

BN04037.D

Operator

Bhaskar

Date Acquired 9-Nov-99 Sample Name

4911.07

Misc Info

0CW2MW33

Sample Multiplier

CAS#	Name	R.T.	Daynama	Dorulé	Regulatory Level (ug/L)*	107		
121-14-2	2,4-Dinitrotoluene	T	Response	Result	<del></del>	MDL	1	<u>Qualifiers</u>
84-66-2		+ -		not detected	10	1	ug/L	<u> </u>
	Diethylphthalate	+ +		not detected	5000		ug/L	ļ
86-73-7	Fluorene		···	not detected	300		ug/L	<u> </u>
7005-72-3	4-Chlorophenyl-phenylether	+		not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline	<del>                                     </del>		not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine	1		not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyi-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachiorophenol	1 1		not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300		ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200		ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05		<del></del>
56-55-3	Benzo[a]anthracene			not detected	10	1,19		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	1	
218-01-9	Chrysene			not detected	20	1.38		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74		
117-84-0	Di-n-octylphthalate			not detected	100	1.44		
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25		
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29		
50-32-8	Benzo[a]pyrene			not detected	20	1.05		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83		
3-70-3	Dibenz[a,h]anthracene			not detected	20	0.64		
91-24-2	Benzo[g,h,i]perylene	T		not detected	NLE	0.84		

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Field ID:

42

15

TENTANTE I BENTH IED GOIN GOIDG								14/00	
Lab Name:	FMETL			_ Lab (	Code <u>13461</u>		0CW2M	W33	
Project:	LTM	Case No	.: <u>4911</u>	Lo	cation: CW2	SD	G No:		
Matrix: (soil/v	water)	WATER			Lab Sample I	D: <u>4</u>	911.07		
Sample wt/vo	ol:	1000 (g/m	il) <u>ML</u>		Lab File ID:	E	N04037.D		
Level: (low/n	ned)	LOW			Date Receive	ed: 1	1/3/99		
% Moisture:		decanted:	(Y/N)	N	Date Extracte	ed: 1	1/8/99		
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11							11/9/99		
Injection Volu	ıme: <u>1.0</u>	<u>)</u> (uL)			Dilution Facto	or: <u>1</u>	.0		
GPC Cleanu	p: (Y/N)	N pH:							
				CONC	ENTRATION L	INITS	<b>3</b> :		
Number TiCs	or ug/Kg) <u>L</u>	IG/L							
OAO NILINIE		OOMBOUND N	A 1.45		D.T.	FOT	2010		
CAS NUMB	SEK	COMPOUND N	AME		RT .	ES I	CONC.	Q	
1. 000057	7-10-3	Hexadecanoic ad	id		19.53		5	JN	

unknown

unknown

28.90

29.14

### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory

### **NJDEP Certification #13461**

Data File Name

Date Acquired

BN04033.D

Sample Name

4911.03

Operator

Bhaskar 8-Nov-99 Misc Info

Dupe

Sample Multiplier

1

C1 C4		70 m		<b>55.</b> 16	Regulatory Level (ug/L)*			
CAS#	Name	R.T.	Response	Result	T	MDL	Qualific	ers
110-86-1 62-75-9	Pyridine	<del>  </del>		not detected	NLE	1	g/L	
62-53-3	N-nitroso-dimethylamine Aniline	<del>   </del>	·	not detected	20	0.91 u		
108-95-2		1 1		not detected	NLE	1.63 u		
111-44-4	Phenol	1 - 1		not detected	4000	0.82 u		
95-57-8	bis(2-Chloroethyl)ether 2-Chlorophenol	<del>  -  </del>		not detected	10	1.28 u		
		<del>  </del>		not detected	40	2.00 u		
541-73-1	1,3-Dichlorobenzene	<del>                                     </del>		not detected	600	1.21 u		
106-46-7	1,4-Dichlorobenzene	<del> </del>	<del></del>	not detected	75	1.19 u		
100-51-6	Benzyl alcohol	+ 1		not detected	NLE	1.02 u		
95-50-1	1,2-Dichlorobenzene	<del>                                     </del>		not detected	600	1.13 u		
95-48-7	2-Methylphenol	1		not detected	NLE	1.17 u		
39638-32-9	bis(2-chloroisopropyl)ether	<del>  </del>		not detected	300	1.39 u		
106-44-5	4-Methylphenol	┼─┤		not detected	NLE	0.35 ա		
621-64-7	n-Nitroso-di-n-propylamine	<del> </del>	.=	not detected	20	0.80 129		
67-72-1	Hexachloroethane	<del> -  </del>	·	not detected	10	1.50 us		
98-95-3	Nitrobenzene	<del> </del>	<del>''' '</del>	not detected	10	0.97 us		
78-59-1	Isophorone	<del>   </del>		not_detected	100	1.01 us		
88-75-5	2-Nitrophenol	<del>                                     </del>		not detected	NLE		<sub>2</sub> /L	
105-67-9	2,4-Dimethylphenol	<del>                                     </del>		not detected	100	2.62 us		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 ug		
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug		
65-85-0	Benzoic Acid	<del> </del> -		not detected	NLE	1.75 us		
120-82-1	1,2,4-Trichlorobenzene	<del> </del>		not detected	9	1.22 us		
91-20-3	Naphthalene	-		not detected	NLE		/L	
106-47-8	4-Chloroapiline	<del>├┈─</del> ┼		not detected	NLE	1.09 us	<del>'                                    </del>	
87-68-3	Hexachlorobutadiene			not detected	11	0.71 ug		
59-50-7	4-Chloro-3-methylphenol	<del> </del>		not detected	NLE	1.39 ug		
91-57-6	2-Methylnaphthalene	<del> </del>		not detected	NLE	1.08 ug		
77-47-4	Hexachlorocyclopentadiene	-		not detected	50	1.32 ug		
88-06-2	2,4,6-Trichlorophenol	<del>  </del> -		not detected	20	1.78 ug	1	
95-95-4	2,4,5-Trichlorophenol	<del></del>		not detected	700	1.28 ug		
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug	- 1	
88-74-4	2-Nitroaniline			not detected	NLE	0.79 ug		
131-11-3	Dimethylphthalate	<u> </u>		not detected	7000	1.52 ug		
208-96-8	Acenaphthylene	<del> </del>		not detected	NLE	0.96 ug		
606-20-2	2,6-Dinitrotoluene	├		not detected	NLE	0.81 ug		
99-09-2	3-Nitroaniline		<u> </u>	not detected	NLE	0.79 ug		
83-32-9	Acenaphthene			not detected	400	1.10 ug		
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 ug		
132-64-9	Dibenzofuran	· ·		not detected	NLE	1.00 ug		
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug	/L	

## Semi-Volatile Analysis Report Page 2

Data File Name

BN04033.D

Operator Date Acquired

Bhaskar

8-Nov-99

Sample Name

4911.03

Misc Info

Dupe

Sample Multiplier

1

Regulatory	
Level	
(no/L)*	

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol		*	not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene		•	not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether	-		not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachloropheno!			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene		No.	not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine		,	not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	_200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene	<u> </u>		not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	<u> </u>		not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	- 20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

Page 2 of 2

1F

LE ORGANICS ANALYSIS DATA SHEET	Field ID:
TAVELY INCUTIENTS COMPOUNTS	

	_						
_ab Name:	FMETL		·	_ Lab Cod	de <u>13461</u>		Dupe
Project:	LTM	Ca	se No.: 4911	Locat	tion: CW2	_ SI	DG No:
Matrix: (soil/v	vater)	WATER	<b></b>	· .	Lab Sample	ID:	4911.03
Sample wt/vo	oi:	1000	(g/ml) ML		ab File ID:		BN04033.D
_evel: (low/n	ned)	LOW	<del>-</del>	[	Date Receive	ed:	11/3/99
% Moisture:		dec	anted: (Y/N)	N [	Date Extract	ed:	11/8/99
Concentrated	I Extract	Volume: 1	000 (uL)	Ι	Date Analyze	ed:	11/8/99
njection Volu	me: <u>1.0</u>	<u>)</u> (uL)			Dilution Fact	or:	1.0
GPC Cleanup	o: (Y/N)	<u>N</u>	pH:				•

### **CONCENTRATION UNITS:**

Number HCs tound:	3	(ug/L or ug/Kg)	UG/L	7
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000057-10-3	Hexadecanoic acid	19.53	5	JN
2.	unknown	27.95	53	J
3	unknown	28.99	150	J

Client:

U.S. Army

Lab. ID #:

BLK430

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

11/4/99

Ft. Monmouth, NJ 07703

**Analysis Date:** 

11/22/99

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

Ext. Meth:

Sep. Funnel

EXL Meth: Sep. 1	unnei				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	. 1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	_ 1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1	-	0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	111		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4911.02

DPW, SELFM-PW-EV

Date Rec'd:

11/3/99

Bldg. 173

**Extraction Date:** 

11/4/99

Ft. Monmouth, NJ 07703

Analysis Date:

11/22/99

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous.

Field ID:

Field Blank

Analyst:

T. Frankovich

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1	-	NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1 .		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1	-	0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2:00	0.0020	ND
Endrin Ketone	1	·	NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND .
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50 .	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

\* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4911.04

DPW, SELFM-PW-EV

Date Rec'd:

11/3/99

Bldg. 173

**Extraction Date:** 

11/4/99

Ft. Monmouth, NJ 07703

Analysis Date:

11/22/99

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

T. Frankovich

Field ID:

0CW2MW30

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. Fun	1161				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	NĐ

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4911.05

DPW, SELFM-PW-EV

Date Rec'd:

11/3/99

Bldg. 173

**Extraction Date:** 

11/4/99

Ft. Monmouth, NJ 07703

Analysis Date:

11/22/99

Analysis:

EPA Method 608

Location:

Matrix:

CW2

Aqueous

Field ID:

0CW2MW31

Analyst:

T. Frankovich

Ext. Meth: Sep	. Funnel	<u> </u>			
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1	4.	0.20	0.0024	ND
gamma-BHC	1	-	0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND .
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	. 1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4911.06

DPW, SELFM-PW-EV

Date Rec'd:

11/3/99

Bldg. 173

**Extraction Date:** 

11/4/99

Ft. Monmouth, NJ 07703

Analysis Date:

11/22/99

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Regulatory

Analyst:

Aqueous

Field ID:

0CW2MW32

Ext. Meth:

Sep. Funnel

T. Frankovich

Pesticide/PCB	Dilution Factor	Retention Time
alpha-BHC	1	
beta-BHC	1	
gamma-BHC	1	

Pesticide/PCB	Dilution Factor	Time	Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND .
Endosulfan I	1	-	0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1	• •	0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chiordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1	1 64	3.00	0.0273	ND
Arochlor 1016	1	14	0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1	:	0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

4911.07

DPW, SELFM-PW-EV

Date Rec'd:

11/3/99

Bldg. 173

**Extraction Date:** 

11/4/99

Ft. Monmouth, NJ 07703

Analysis Date:

11/22/99

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

Analyst: T. Frankovich

Field ID:

0CW2MW33

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1	<del>-</del>	0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	. ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

\* Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

4911.03

DPW, SELFM-PW-EV

Date Rec'd:

11/3/99

Bldg. 173

**Extraction Date:** 

11/4/99

Ft. Monmouth, NJ 07703

Analysis Date:

11/22/99

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

Analyst:

Field ID:

Dupe

Ext. Meth:

T. Frankovich Sep. Funnel

Ext. Meth: Sep.	Funnel		1		
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1	-	NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND '
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1	:	0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-2

Ft. Monmouth, New Jersey

Lab ID #: 4911

Sample Prepared: 11/30/99

Field ID#: Method Blank

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	12/01/99	43.9	200	10.0
Antimony	12/01/99	5.65	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	ND	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	118	NLE	20.0
Chromium	12/01/99	2.78	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	216	1000	3.0
Iron	12/01/99	42.1	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	106	NLE	20.0
Manganese	12/01/99	ND	50	0.5
Mercury	11/19/99	ND	2	0.1
Nickel	12/01/99	3.60	100	0.5
Potassium	12/01/99	838	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	369	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	22.2	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4911.02

Sample Received: 11/03/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	12/01/99	ND	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	ND	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	65.2	NLE	20.0
Chromium	12/01/99	0.521	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	ND	1000	3.0
Iron	12/01/99	ND	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	ND	NLE	20.0
Manganese	12/01/99	ND	50	0.5
Mercury	11/19/99	ND	2	0.1
Nickel	12/01/99	ND	100	0.5
Potassium	12/01/99	ND	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	551	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	15.4	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4911.04

Sample Received: 11/03/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW30

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	12/01/99	92.7	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	6.06	8	2.0
Barium	12/01/99	72.7	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	ND	4	0.5
Calcium	12/01/99	55300	NLE	20.0
Chromium	12/01/99	2.38	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	12.4	1000	3.0
Iron	12/01/99	6540	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	4300	NLE	20.0
Manganese	12/01/99	36.3	50	0.5
Mercury	11/19/99	0.2	2	0.1
Nickel	12/01/99	2.24	100	0.5
Potassium	12/01/99	8930	NLE	20.0
Selenium	12/01/99	4.01	50	3.0 .
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	15400	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	2.19	NLE	1.0
Zinc	12/01/99	2.24	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4911.05

Sample Received: 11/03/99

Sample Matrix: Aqueous

.

CW-2

Site:

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW31

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	12/01/99	14.9	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	265	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	1.45	4	0.5
Calcium	12/01/99	53400	NLE	20.0
Chromium	12/01/99	ND	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	3.69	1000	3.0
Iron	12/01/99	64600	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	6610	NLE	20.0
Manganese	12/01/99	309	50	0.5
Mercury	11/19/99	ND	2	0.1
Nickel	12/01/99	4.98	100	0.5
Potassium	12/01/99	11600	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	12500	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	35.5	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4911.06

Sample Received: 11/03/99

Sample Matrix: Aqueous

•

Site: CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW32

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	12/01/99	162	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	4.09	8	2.0
Barium	12/01/99	61.7	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	0.837	4	0.5
Calcium	12/01/99	95100	NLE	20.0
Chromium	12/01/99	3.64	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	44.9	1000	3.0
Iron	12/01/99	11500	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	9380	NLE	20.0
Manganese	12/01/99	27.0	50	0.5
Mercury	11/19/99	ND	2	0.1
Nickel	12/01/99	4.57	100	0.5
Potassium	12/01/99	4990	NLE	20.0
Selenium	12/01/99	5.66	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	21000	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	4.91	NLE	1.0
Zinc	12/01/99	41.1	5000	1.0

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4911.07

Sample Received: 11/03/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	12/01/99	52.8	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	ND	8	2.0
Barium	12/01/99	46.7	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	1.38	4	0.5
Calcium	12/01/99	18100	NLE	20.0
Chromium	12/01/99	1.30	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	3.98	1000	3.0
Iron	12/01/99	19500	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	3260	NLE	20.0
Manganese	12/01/99	47.2	50	0.5
Mercury	11/19/99	ND	2	0.1
Nickel	12/01/99	2.75	100	0.5
Potassium	12/01/99	3490	NLE	20.0
Selenium	12/01/99	ND	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	8950	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	ND	NLE	1.0
Zinc	12/01/99	20.8	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 4911.03

Sample Received: 11/03/99

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Dupe

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	12/01/99	157	200	10.0
Antimony	12/01/99	ND	20	2.0
Arsenic	12/01/99	3.19	8	2.0
Barium	12/01/99	56.1	2000	0.5
Beryllium	12/01/99	ND	20	0.5
Cadmium	12/01/99	0.601	4	0.5
Calcium	12/01/99	92500	NLE	20.0
Chromium	12/01/99	3.27	100	0.5
Cobalt	12/01/99	ND	NLE	0.5
Copper	12/01/99	47.9	1000	3.0
Iron	12/01/99	8980	300	10.0
Lead	12/01/99	ND	10	2.0
Magnesium	12/01/99	9280	NLE	20.0
Manganese	12/01/99	21.0	50	0.5
Mercury	11/19/99	ND	2	0.1
Nickel	12/01/99	3.13	100	0.5
Potassium	12/01/99	4750	NLE	20.0
Selenium	12/01/99	5.69	50	3.0
Silver	12/01/99	ND	20	3.0
Sodium	12/01/99	20900	50000	20.0
Thallium	12/01/99	ND	10	3.0
Vanadium	12/01/99	4.28	· NLE	1.0
Zinc	12/01/99	29.4	5000	1.0

}	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ugl	Feet	 
NJDEP Criteria:	-	300	50	200	8	10	-	-
04/24/97	FMETL	9100	69	-	•	-	6.45	V,S,P,M
07/10/97	FMETL	12590	73	25	5.0	ND	7.05	V,S,P,M
10/22/97	FMETL	34800	171	175	5.0	5.0	7.60	V,S,P,M
01/08/98	FMETL	2795	5.0	204	ND	4.0	5.20	V,S,P,M
04/07/98	FMETL	3504	39.3	196	5.6	ND	6.56	V,S,P,M
07/14/98	FMETL	10900	57.8	65.7	ND	ND	6.89	V,S,P,M
11/24/98	FMETL	27500	182	ND	11.5	3.15	7.86	V,S,P,M
02/11/99	FMETL.	11000	100	505	8.3	ND	7.24	V,S,P,M
06/09/99	FMETL	8210	145	521	6.33	ND	7.21	V,S,P,M
08/04/99	FMETL	44800	212	304	9.05	6.02	7.43	V,S,P,M
11/03/99	FMETL	6540	36.3	92.7	6.06	ND	7.02	V,S,P,M

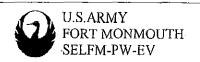
Sampling Dates: 04/24/97 - 11/03/99

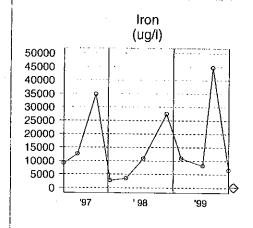
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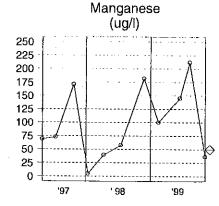
### FORT MONMOUTH

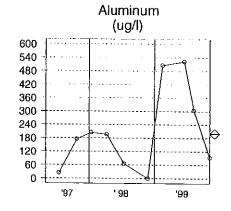
GW MONITORING Bldg CW-2

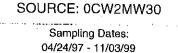
Well 1 of 4

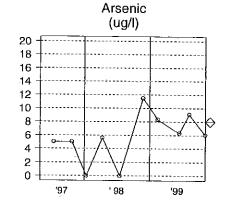


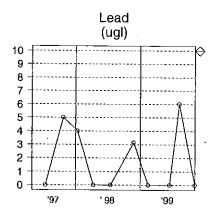


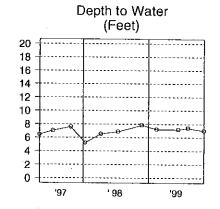


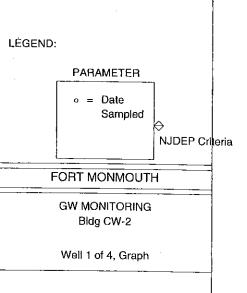


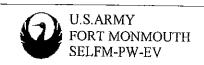












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	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water			Notes
Units:	•	ug/l	ug/l	ug/l	ug/l	ugl	Feet		-	
NJDEP Criteria:	-	300	50	200	. 8	10	•			
04/24/97	FMETL.	59900	277	-	* .	-	6.38		140mi ar 2744	V,S,P,M
07/10/97	FMETL	11830	267	ND	1.0	ND	7.00			V,S,P,M
10/22/97	FMETL	52300	243	93	ND	6.0	7.50			V,S,P,M
01/08/98	FMETL	68450	240	129	ND	25	6.30			V,S,P,M
04/07/98	FMETL	115100	266	ND	ND	ND	6.35			V,S,P,M
07/14/98	FMETL	83600	311	390	ND	4.85	6.71			V,S,P,M
11/24/98	FMETL	72800	322	ND	ND	2.33	7.78			V,S,P,M
02/11/99	FMETL	71900	316	ND	ND	ND	7.07			V,S,P,M
06/09/99	FMETL	104000	326	27.9	ND	ND	7.15			V,S,P,M
08/04/99	FMETL	77500	347	ND	ND	ND	7.65			V,S,P,M
11/03/99	FMETL	64600	309	14.9	ND	ND	7.18		1	V,S,P,M

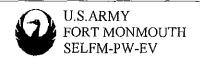
Sampling Dates: 04/24/97 - 11/03/99

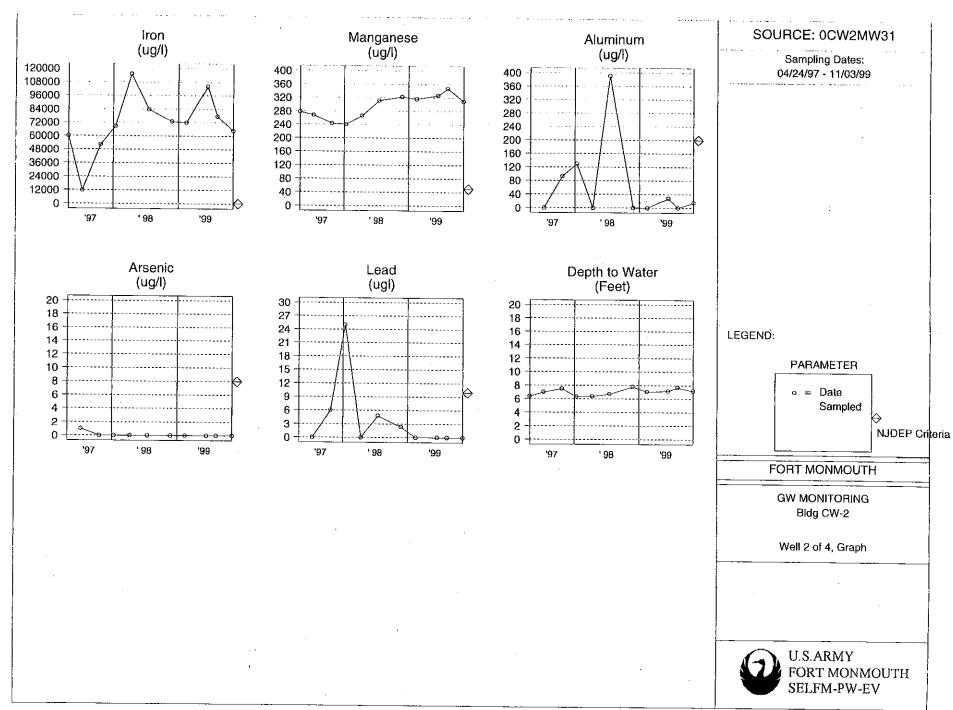
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#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 2 of 4





'					V**	1	[		1	
	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water			Notes
Units:	 -	ug/l	ug/l	ug/l	ug/l	ugl	Feet			,
NJDEP Criteria:		300	50	200	8	10				-
04/24/97	FMETL	18400	125	-	-	-	6.65			V,S,P,M
07/10/97	FMETL	270	181	595	ND	ND	7.20		1	V,S,P,M
10/22/97	FMETL	51100	260	297	ND	7.0	7.70			V,S,P,M
01/08/98	FMETL	1484	3.7	163	ND	ND	4.50			V,S,P,M
04/07/98	FMETL.	19280	287	ND	ND	ND	6.81			V,S,P,M
07/14/98	FMETL	67500	287	78.1	2.51	3.99	7.06			V,S,P,M
11/24/98	FMETL	106000	342	166	9.32	4.08	7.94			V,S,P,M
02/11/99	FMETL	4480	7.02	137	ND	ND	7.33			V,S,P,M
06/09/99	FMETL	64300	310	59.5	ND	ND	7.49			V,S,P,M
08/04/99	FMETL	76000	369	67.4	ND	ND	7.85			V,\$,P,M
11/03/99	FMETL	11500	27	162	4.09	ND	6.53			V,S,P,M

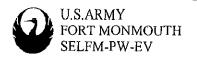
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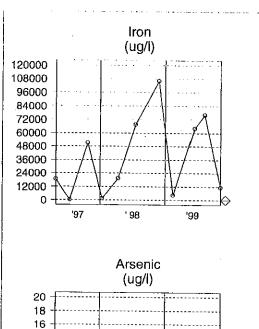
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 3 of 4





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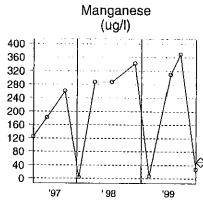
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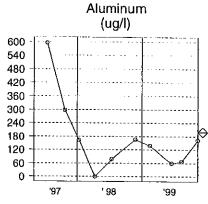
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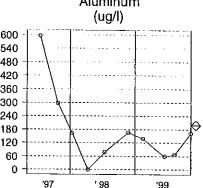
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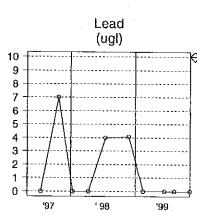
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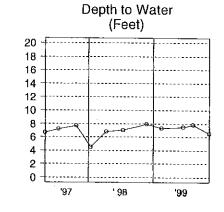
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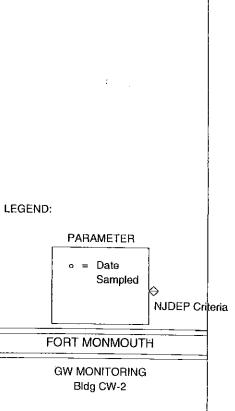








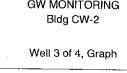


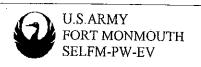


SOURCE: 0CW2MW32

Sampling Dates:

04/24/97 - 11/03/99





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water		Notes
Units:		ug/l	ug/l	ug/l	ug/l	ugl	Feet		
NJDEP Criteria:	-	300	50	200	8	10	-		•
04/24/97	FMETL	88600	424	-	•		8.95		V,S,P,M
07/10/97	FMETL.	10260	519	2.1	1.0	ND	9.10		V,S,P,M
10/22/97	FMETL.	26800	151	94	ND	4.0	9.10		V,S,P,M
01/08/98	FMETL	104700	342	217	.6.0	4.0	9.00		V,S,P,M
04/07/98	FMETL.	19780	110	119	3.4	ND	9.50		V,S,P,M
07/14/98	FMETL	35900	130	411	ND	4.19	9.09		V,S,P,M
11/24/98	FMETL.	25400	87.8	125	ND	ND	9.13	_	V,S,P,M
02/11/99	FMETL	11300	81.2	67.8	ND	ND	8.13		V,S,P,M
06/09/99	FMETL	69600	214	336	5.82	ND	9.13		V,S,P,M
08/04/99	FMETL	35900	149	69	8	3.25	- 9.15		V,S,P,M
11/03/99	FMETL	19500	47.2	52.8	ND	ND	6.14		V,S,P,M

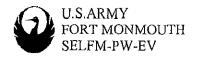
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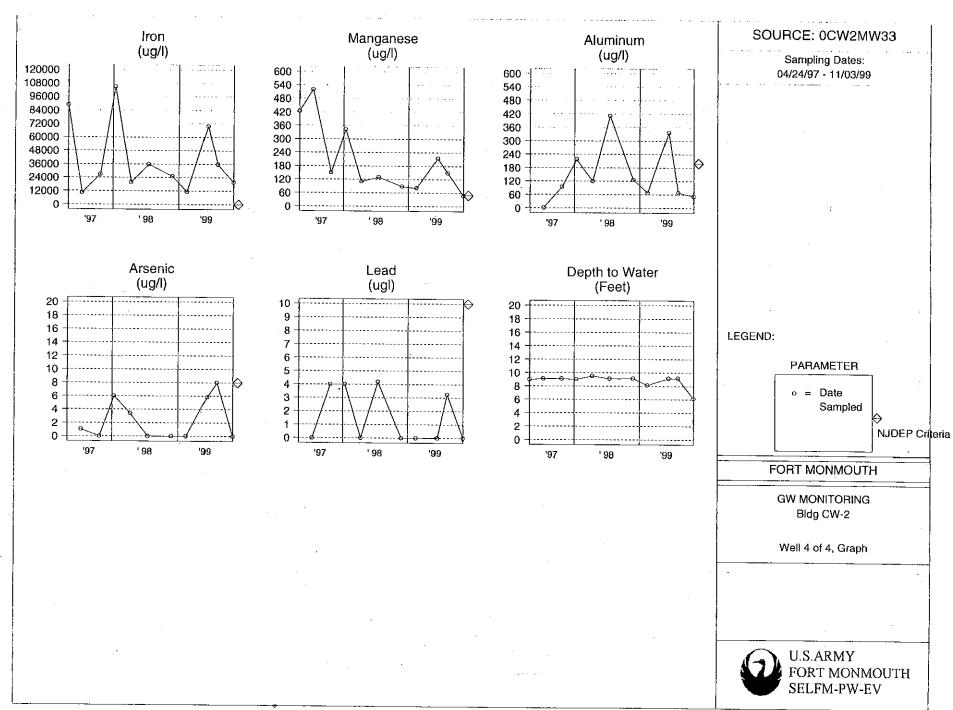
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 4 of 4





## FORT MONMOUTH ENVIRONMENTAL **TESTING LABORATORY**

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT **FOR** Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

## SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE		
5175.04	0CW2MW30	29-32594	02/15/00		
5175.05	0CW2MW31	29-32595	02/15/00		
5175.06	0CW2MW32	29-32596	02/15/00		
5175.07	0CW2MW33	29-32597	02/15/00		

NJDEP Laboratory Certification # 13461

Daniel Wright/Date:

Laboratory Director

## METHODOLOGY SUMMARY

PARAMETER	REFERENCE				
TARGET ANALYTE LIST	Standard Methods, 18 <sup>th</sup> ed.				
Aluminum	3120B				
Antimony	3120B				
Arsenic	3120B				
Barium	3120B				
Beryllium	3120B				
Cadmium	3120B				
Calcium	3120B				
Chromium	3120B				
Cobalt	3120B				
Copper	3120B				
Iron	3120B				
Lead	3120B				
Magnesium	3120B				
Manganese	3120B				
Mercury	3112B				
Nickel	3120B				
Potassium	3120B				
Selenium	3120B .				
Silver	3120B				
Sodium	3120B				
Thallium	3120B				
Vanadium	3120B				
Zinc	3120B				
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A				
Base/Neutrals and Acid	625				
Extractables by GC/MS					
Purgeable Organcis by GC/MS	624				
Pesticides and PCB's by GC	608				



## Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

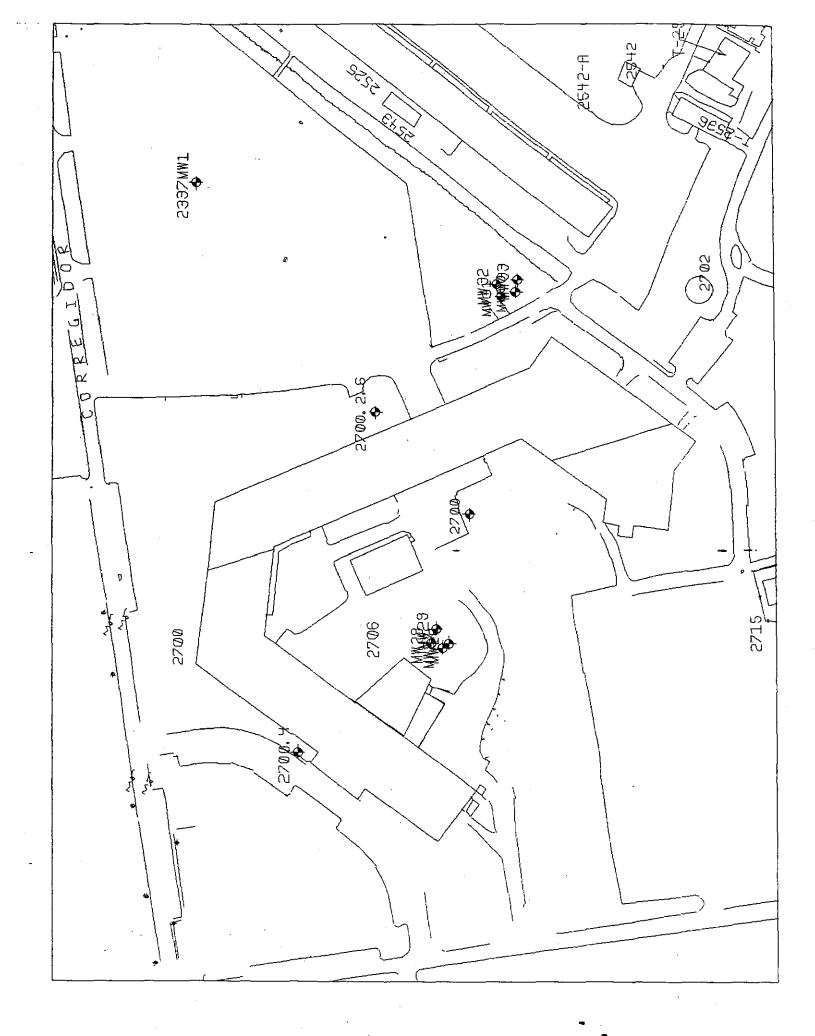
Days, ()ASAP Verbal

Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil

Chain of Custody Record

NJDEP Certification #13461 Customer: **Analysis Parameters** Project No: Comments: Phone #: Location: Cua wells HCL/HNO3/24°c 1st art 100 (DERA ( )OMA ( )Other: Cores Mc Cormack, TVS Samplers Name / Company: Sample Sample Location Lab Sample I.D. Remarks / Preservation Method Date Time Type bottles 2/15/00 AQ Trip 0731 Field Blank 0915 Dupe ,03 OCW2 MW30 1101 0.0 29-32594 5 0950 29-32595 0949 29-32596 OCWI MW 32 OCWZ MW33 0924 0.0 29 - 32597 Received by/(signature); Relinquished by (signature); Date/Time: Relinquished by (signature): Date/Time: Received by (signature): 2/15/00 1430 Received by (signature): Relinquished by (signature): Date/Time: Relinquished by (signature): Date/Time: Received by (signature): Shors Trip/FB/Dye W/CW34 Suc date. Report Type: ()Full, ()Reduced, ()Standard, ()Screen / non-certified Remarks: Turnaround time: (Standard 3 wks, ()Rush\_ Tide: N/A

Hrs.



LOCATION: CW-2 MW#: 0CW2MW30 NJDEP ID #: 29-32594 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 02/15/00

WEATHER: Sunny, cold.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.71 ft

INNER CASING DIA: 4 INCH DEPTH TO WATER: 7.02 ft DEPTH OF WELL: 17.95 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 10.93 ft (10.93) X .65 X 3 = 21.31

GALLONS OF H2O TO BE PURGED: 21 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 09:29

pH 6.81 su

TEMP 12.7 °C

DISSOLVED O2 5.89 ppm

SPECIFIC CONDUCTIVITY 113 us/cm

**PURGE END TIME: 11:00** 

pH 6.83 su

TEMP 12.6 °C

DISSOLVED O2 5.04 ppm

SPECIFIC CONDUCTIVITY 113 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.27 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 21 gal

SAMPLE START TIME: 11:01

pH 6.83 su

TEMP 12.6 °C

DISSOLVED O2 5.02 ppm

SPECIFIC CONDUCTIVITY 113 us/cm

SAMPLE END TIME: 11:05

COMMENTS: MS/MSD here.

LOCATION: CW-2 MW#: 0CW2MW31 NJDEP ID #: 29-32595 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 02/15/00

WEATHER: Sunny, cold.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.88 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 7.03 ft** DEPTH OF WELL: 16.91 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 9.88 ft (9.88) X .65 X 3 = 19.26

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 08:26** 

pH 6.79 su

TEMP 12.7 °C

DISSOLVED O2 6.01 ppm

SPECIFIC CONDUCTIVITY 95 us/cm

PURGE END TIME: 09:49

pH 6.83 su

TEMP 12.5 °C

DISSOLVED O2 5.31 ppm

SPECIFIC CONDUCTIVITY 96 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 8.34 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 09:50

pH 6.84 su

TEMP 12.5 °C

DISSOLVED O2 5.30 ppm

SPECIFIC CONDUCTIVITY 96 us/cm

SAMPLE END TIME: 09:55

COMMENTS: DUP. Here. Orange tinge, particles increased while bailing.

LOCATION: CW-2 MW#: 0CW2MW32 NJDEP ID #: 29-32596 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 02/15/00

WEATHER: Sunny, cold.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.38 ft

INNER CASING DIA.: 4 INCH DEPTH TO WATER: 6.54 ft DEPTH OF WELL: 16.89 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 10.35 ft

(10.35) X .65 X 3 = 20.18

GALLONS OF H2O TO BE PURGED: 20 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 08:15

pH 6.79 su

TEMP 12.5 °C

DISSOLVED O2 5.98 ppm

SPECIFIC CONDUCTIVITY 100 us/cm

PURGE END TIME: 09:48

pH 6.80 su

TEMP 12.4 °C

DISSOLVED O2 5.03 ppm

SPECIFIC CONDUCTIVITY 98 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.96 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER) TOTAL VOLUME PURGED: 20 gal

SAMPLE START TIME: 09:49

pH 6.82 su

TEMP 12.4 °C

DISSOLVED O2 5.03 ppm

SPECIFIC CONDUCTIVITY 99 us/cm

SAMPLE END TIME: 09:55

COMMENTS: DUP. Here. Orange tinge, particles.

LOCATION: CW-2 MW#: 0CW2MW33 NJDEP ID #: 29-32597 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 02/15/00

WEATHER: Sunny, cold.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.09 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 9.09 ft** DEPTH OF WELL: 16.10 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 7.01 ft (7.01) X .65 X 3 = 13.66

GALLONS OF H2O TO BE PURGED: 14 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 08:22

pH 6.77 su

TEMP 12.7 °C

DISSOLVED O2 6.11 ppm

SPECIFIC CONDUCTIVITY 111 us/cm

PURGE END TIME: 09:23

pH 6.76 su

TEMP 12.6 °C

DISSOLVED O2 5.23 ppm

SPECIFIC CONDUCTIVITY 110 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.49 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER) TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 09:24

pH 6.74 su

TEMP 12.4 °C

DISSOLVED O2 5.21 ppm

SPECIFIC CONDUCTIVITY 111 us/cm

SAMPLE END TIME: 09:28

COMMENTS: DUP. Here. Orange tinge, particles while bailing.

## US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEP CERTIFICATION # 13461

## **Definition of Qualifiers**

**MDL**: Method Detection Limit

J : Compound Identified Below Detection Limit
 B : Compound is in Both Sample and Blank
 D : Results are from a Dilution of the Sample
 U : Compound Searched for but not Detected
 E : Compound Exceeds Calibration Limit

## Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Operator VC002129.D

Skelton

Sample Name Field ID Vblk58 Vblk58

1

Date Acquired

16 Feb 2000 1:34 pm

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein	<u> </u>		not detected	50	1.85 ug/L	
107131	Acrylonitrile	<u> </u>		not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	ļ		not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane		<u> </u>	not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75- <b>69</b> -4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nie	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate		<u> </u>	not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	······································
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87 <b>-</b> 5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane	i	·····	not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene	····· 1		not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected		0.71 ug/L	<del></del>
126-48-1	Dibromochloromethane			not detected	nle	0.71 ug/L 0.86 ug/L	
108-90-7	Chlorobenzene			not detected	10 4	0.86 ug/L 0.39 ug/L	
100-41-4	Ethylbenzene	· · · · · · · · · · · · · · · · · · ·		not detected	·····	0.65 ug/L	
1330-20-7	m+p-Xylenes	. "		not detected	700		
1330-20-7	o-Xylene				nle	1.14 ug/L	
100-42-5	Styrene Styrene			not detected	nle 100	0.62 ug/L	
75-25-2	<u> </u>			not detected	100	0.56 ug/L	
79-34-5	Bromoform			not detected	4	0.70 ug/L	
541-73-1	1,1,2,2-Tetrachloroethane		<del></del>	not detected	2	0.47 ug/L	
106-46-7	1,3-Dichlorobenzene		· · · · · · · · · · · ·	not detected	600	0.55 ug/L	
	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established
R.T. = Retention Time

#### 1E

COMPOUND NAME

CAS NO.

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

		TENT	ATIVELY ID	ENTIFIE	D COMPOL	INDS		\n, u = 0	
Lab Name:	FMETL	,			NJDEP#:	13461		Vblk58	]
Project:	LTM	•	Case No.:	5175	Location	: <u>CW2</u>	SE	OG No.:	
Matrix: (soil/v	vater)	WATER	<u> </u>		Lab	Sample I	D:	Vblk58	
Sample wt/vo	ol:	5.0	(g/ml)	ML	Lab	File ID:		VC002129.D	
Level: (low/m	ned)	LOW			Dat	e Receive	ed:	2/15/00	
% Moisture: r	not dec.		····		Dat	e Analyze	d:	2/16/00	
GC Column:	RTX50	)2. ID:	0.25 (m	m)	Dilu	ıtion Facto	or:	1.0	
Soil Extract V	olume:		(uL)		Soi	l Aliquot V	olur'	ne:	(uL)
					NCENTRAT L or ug/Kg)	ION UNIT UG/L			
Number TICs	found:	0		` `	3 0,				

FIELD ID:

EST. CONC.

Q

RT

## Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VC002146.D

Operator Skelton

Sample Name Field ID 5175.01 Trip Blank

Date Acquired

17 Feb 2000 2:02 am

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol		·	not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10 .	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	i
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	<u> </u>
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	<del></del>
75-35-3	1.1-Dichloroethane	1		not detected	70	0.12 ug/L	·
108-05-4	Vinyl Acetate	<b>†</b>		not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1.2-Dichloroethene	† <u> </u>		not detected	10	0.17 ug/L	
67-66-3	Chloroform	16.22	122541	3.06 ug/L	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	·
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1.2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	····
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether	† · · · · ·		not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene		<del></del>	not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone		•	not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene	1		not detected	rde	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Нехапопе		······································	not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene	<del></del>		not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes	<b>!</b>		not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected		0.62 ug/L	
100-42-5	Styrene	<del> </del>	<del></del>	not detected	nle	0.56 ug/L	
75-25-2	Bromoform	<del>  </del>			100		
79-34-5		<del>                                     </del>	<del> </del>	not detected	4	0.70 ug/L	
541-73-1	1,1,2,2-Tetrachloroethane	+-+		not detected	2	0.47 ug/L	ļ <del></del>
	1,3-Dichlorobenzene 1,4-Dichlorobenzene			not detected not detected	600	0.55 ug/L 0.57 ug/L	
106-46-7				noi detected	75	(15/100/1	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIEL	D ID:
------	-------

Lab Name:	FMETL			NJDEF	P#: <u>13461</u>		_ I rip Bi	ank 
Project:	LTM	Ca	se No.: 517	5 Loca	ation: CW2	s	DG No.:	
Matrix: (soil/	water)	WATER	_		Lab Sample	e ID:	5175.01	
Sample wt/ve	ol:	5.0	(g/ml) ML		Lab File ID:	:	VC002146.D	
Level: (low/r	med)	LOW	_		Date Recei	ved:	2/15/00	
% Moisture:	not dec.				Date Analy	zed:	2/17/00	
GC Column:	RTX5	02. ID: <u>0.</u> 2	25 (mm)		Dilution Fac	ctor:	1.0	
Soil Extract \	/olume:		(uL)		Soil Aliquot	Volu	me:	(uL)
Number TICs	s found:	0		CONCENTE (ug/L or ug/l			· · · · · · · · · · · · · · · · · · ·	
CAS NO.		COMPOL	ND NAME		RT	ES	T. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VC002147.D

Sample Name

5175.02

Operator

Skelton

Field ID

Field Blank

Date Acquired

17 Feb 2000 2:42 am

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nie	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	Ţ
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	T
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	j
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	1.
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	<u> </u>
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	1
78-93-3	2-Butanone			not detected	300	0.62 ug/L	1
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	i
67-66-3	Chloroform	16.22	121037	3.01 ug/L	6	0.30 ug/L	
75-55-6	1.1.1-Trichloroethane			not detected	30	0.23 ug/L	T
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1.2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1.2-Dichloropropane			not detected	1	0.40 ug/L	1
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	<u> </u>
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	<u> </u>
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	T
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	T
127-18-4	Tetrachloroethene			not detected	ı	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	1
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	T
100-41-4	Ethylbenzene	T		not detected	700	0.65 ug/L	T
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	T .
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	1
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	Ţ
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene	† · · · · · · ·		not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene		-	not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene	<del>                                     </del>		not detected	600	0.64 ug/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

Lab Name:

**FMETL** 

### **VOLATILE ORGANICS ANALYSIS DATA SHEET** TENTATIVELY IDENTIFIED COMPOUNDS

NJDEP#: 13461

	Field Blank
s	DG No.:
e ID:	5175.02
:	VC002147.D

FIELD ID:

Project: LTM Case No.: 5175 Location: CW2 Matrix: (soil/water) WATER Lab Sample Sample wt/vol: 5.0 (g/ml) ML Lab File ID: LOW Level: (low/med) Date Received: 2/15/00 % Moisture: not dec. Date Analyzed: 2/17/00 GC Column: RTX502: ID: 0.25 Dilution Factor: 1.0 Soil Aliquot Volume: Soil Extract Volume: (uL) **CONCENTRATION UNITS:** (ug/L or ug/Kg) Number TICs found: CAS NO. COMPOUND NAME RT EST. CONC. Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VC002148.D

Skelton

Sample Name Field ID 5175.03

Dupe

1

Operator Date Acquired

17 Feb 2000 3:23 am

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie.
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride		!	not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
· 75343	1,1-Dichloroethene		·	not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0:46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	l
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone		-	not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	L		not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nie	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachioroethene			not detected	1	0.32 ug/L	
591-78-6	2-Нехапопе			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	- · · · · · · · · · · · · · · · · · · ·
541-73-1	1,3-Dichlorobenzene	· •		not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene	<del>                                     </del>		not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			Hot detected	13	0.57 ug/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

EST. CONC.

		TC-1 T 1 T			~ ~		
		IENIAI	IVELY IDENTIF	IED COMPOUNI	DS	Dupe	
Lab Name:	FMETL			NJDEP#: <u>1</u> :	3461		
Project:	LTM	Ca	se No.: 5175	Location:	CW2 S	DG No.:	
Matrix: (soil/	water)	WATER	_	Lab S	ample ID:	5175.03	
Sample wt/v	ol:	5.0	(g/ml) ML	Lab F	ile ID:	VC002148.D	
Level: (low/r	med)	LOW	<u>-</u>	Date I	Received:	2/15/00	_
% Moisture:	not dec.			Date /	Analyzed:	2/17/00	_
GC Column:	RTX5	02. ID: <u>0</u> .	25 (mm)	Dilutio	on Factor:	1.0	_
Soil Extract \	Volume:		_ (uL)	Soil A	liquot Volu	me:	_ (uL)
			C	ONCENTRATIO	N UNITS:	e P	
Number TIC:	s found:	0	(ı	ıg/L or ug/Kg)	UG/L	<del></del>	

COMPOUND NAME

CAS NO.

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VC002149.D

Skelton

Sample Name Field ID 5175.04 0CW2MW30

Operator Date Acquired

17 Feb 2000 4:04 am

Sample Multiplier

107123	CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107131   Actylonitrile	107028	Acrolein			not detected	50	1.85 ug/L	
1634044   Methyl-tert-Butyl ethen   not detected	107131	Acrylonitrile			not detected	50		
1684044   Methyl-ter-Butyl ether	75650	1						
Disblorodifluoromethane	1634044	<u> </u>			not detected	1		
75-18	108203	Di-isopropyl ether			not detected			
1.6   1.6	75718	Dichlorodifluoromethane			not detected			
75-01-4	74-87-3	Chloromethane			not detected	1		
T4-83-9   Bromomethane	75-01-4	Vinyl Chloride			not detected	1		
75-00-3	74-83-9	Bromomethane			not detected	10		
75-69-4   Trichlorofluoromethane   not detected   nbc   0.50 mg/L	75-00-3	Chloroethane			not detected	1		
1.1-Dichloroetheae					<del></del>	1		
Fig. 13-10					<del></del>			-
75-15-0   Carbon Disulfide		1			<u> </u>	T		
156.594   trans-1,2-Dichloroethene   not detected   100   0.16 ug/L		1			<del></del>	1		
156594   trans-1,2-Dichloroethene   not detected   100   0.16 ug/L     75.35-3   1,1-Dichloroethane   not detected   70   0.12 ug/L     108-05-4   Vinyl Acetate   not detected   net   0.78 ug/L     78-93-3   2-Butanone   not detected   300   0.62 ug/L     cis-1,2-Dichloroethene   not detected   10   0.17 ug/L     67-66-3   Chloroform   not detected   6   0.30 ug/L     57-55-6   1,1,1-Tichloroethane   not detected   2   0.47 ug/L     56-23-5   Carbon Tetrachloride   not detected   2   0.47 ug/L     71-43-2   Benzene   not detected   1   0.23 ug/L     107-06-2   1,2-Dichloroethane   not detected   2   0.18 ug/L     79-01-6   Tichloroethane   not detected   1   0.23 ug/L     78-87-5   1,2-Dichloroethane   not detected   1   0.23 ug/L     78-87-6   1,2-Dichloroethane   not detected   1   0.20 ug/L     78-87-7   4   Bromodichloromethane   not detected   1   0.40 ug/L     75-27-4   Bromodichloromethane   not detected   1   0.40 ug/L     110-75-8   2-Chloroethyl vinyl ethe   not detected   net   0.65 ug/L     10061-01-5   cis-1,3-Dichloropropene   not detected   net   0.65 ug/L     108-88-3   Toluene   not detected   1   0.65 ug/L     108-88-3   Toluene   not detected   1   0.37 ug/L     17-18-4   Tetrachloroethane   not detected   1   0.32 ug/L     199-00-5   1,1,2-Trichloroethane   not detected   1   0.32 ug/L     199-00-5   1,1,2-Trichloroethane   not detected   1   0.32 ug/L     198-90-7   Chloroethane   not detected   1   0.32 ug/L     198-90-7   Chlorobehane   not detected   1   0.32 ug/L     198-90-7   Chloroethane   not detected   1   0.32 ug/L     198-90-7   Chloroethane   not detected   1   0.39 ug/L     198-90-7   Chlorobehane   not detected   1   0.39 ug/L     198-90-7   Chlorobehane   not detected   1   0.39 ug/L     198-90-7   Chlorobehane   not detected   1   0.39 ug/L     198-90-7   Chlorobenzene   not detected   1   0.39 ug/L     198-90-7   Chlorobenzene   not detected   1   0.30 ug/L     198-90-7   Chlorobenzene   not detected   1   0.50 ug/L     198-90-7   Chlorobenzene   not detected   2   0.47 u		· · · · · · · · · · · · · · · · · · ·				<del>                                     </del>		
75-35-3   1.1-Dichloroethane   not detected   not						<del> </del>		
108-05-4   Vinyl Acetate								
78-93-3   2-Butanone   not detected   300   0.62 ug/L	<del></del>	<del>                                     </del>						
Cis-1,2-Dichloroethene		<del>                                     </del>			<u> </u>			
67-66-3   Chloroform		cis-1.2-Dichloroethene			<del>                                     </del>			
75-55-6	67-66-3	<del>                                     </del>				T		
S6-23-5   Carbon Tetrachloride   not detected   2   0.47 ug/L     71-43-2   Benzene   not detected   1   0.23 ug/L     107-06-2   1,2-Dichloroethane   not detected   2   0.18 ug/L     79-01-6   Trichloroethane   not detected   1   0.23 ug/L     78-87-5   1,2-Dichloropropane   not detected   1   0.40 ug/L     75-27-4   Bromodichloromethane   not detected   1   0.55 ug/L     110-75-8   2-Chloroethyl vinyl ether   not detected   nie   0.65 ug/L     10061-01-5   cis-1,3-Dichloropropene   not detected   nie   0.69 ug/L     108-10-1   4-Methyl-2-Pentanone   not detected   400   0.59 ug/L     108-88-3   Toluene   not detected   nie   0.87 ug/L     10061-02-6   trans-1,3-Dichloropropene   not detected   nie   0.87 ug/L     179-00-5   1,1,2-Trichloroethane   not detected   1   0.32 ug/L     127-18-4   Tetrachloroethene   not detected   1   0.32 ug/L     126-48-1   Dibromochloromethane   not detected   nie   0.71 ug/L     108-90-7   Chlorobenzene   not detected   not   0.86 ug/L     108-90-7   Chlorobenzene   not detected   nie   0.71 ug/L     1330-20-7   m+p-Xylenes   not detected   nie   1.14 ug/L     1330-20-7   chlorobenzene   not detected   nie   1.14 ug/L     1330-20-7   styrene   not detected   nie   0.62 ug/L     190-34-5   1,1,2-Tetrachloroethane   not detected   nie   0.60 ug/L     190-34-5   1,1,2-Tetrachloroethane   not detected   10   0.50 ug/L     190-34-5   1,1,2-Tetrachloroethane   not detected   10   0.50 ug/L     190-34-5   1,1,2-Tetrachloroethane   not detected   10   0.50 ug/L     190-34-5   1,1,2-Tetrachloroethane   not detected   10   0.50 ug/L     190-34-5   1,1,2-Tetrachloroethane   not detected   10   0.55 ug/L     190-34-5   1,1,2-Tetrachloroethane   not detected   10   0.55 ug/L     190-34-5   1,1,2-Tetrachloroethane   not detected   2   0.47 ug/L     541-73-1   1,3-Dichlorobenzene   not detected   600   0.55 ug/L	75-55-6	<del>                                     </del>				<del>                                     </del>		
71-43-2   Benzene	56-23-5	Carbon Tetrachloride						
107-06-2   1,2-Dichloroethane   not detected   2   0.18 ug/L	71-43-2	Benzene			not detected			
Trichloroethene	107-06-2	1.2-Dichloroethane			not detected	2		
78-87-5         1,2-Dichloropropane         not detected         1         0.40 ug/L           75-27-4         Bromodichloromethane         not detected         1         0.55 ug/L           110-75-8         2-Chloroethyl vinyl ether         not detected         nle         0.65 ug/L           10061-01-5         cis-1,3-Dichloropropene         not detected         nle         0.69 ug/L           108-10-1         4-Methyl-2-Pentanone         not detected         400         0.59 ug/L           108-88-3         Toluene         not detected         1000         0.37 ug/L           10061-02-6         trans-1,3-Dichloropropene         not detected         nle         0.87 ug/L           79-00-5         1,1,2-Trichloroethane         not detected         3         0.48 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.32 ug/L           591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           108-90-7         Chlorobenzene         not detected         10         0.86 ug/L           109-41-4         Ethylbenzene         not detected         nle         1.14 ug/L           1330-20-7         n-xylene         not detected         nle         0.62 ug/L <td>79-01-6</td> <td>Trichloroethene</td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td>	79-01-6	Trichloroethene						
75-27-4   Bromodichloromethane   not detected   1   0.55 ug/L	78-87-5	1.2-Dichloropropane			† ··	1		
110-75-8   2-Chloroethyl vinyl ether   not detected   nie   0.65 ug/L	75-27-4	<del>                                      </del>						
10061-01-5   cis-1,3-Dichloropropene   not detected   nle   0.69 ug/L	110-75-8	2-Chloroethyl vinyl ether			not detected	1		
108-10-1    4-Methyl-2-Pentanone	10061-01-5	cis-1,3-Dichloropropene			not detected			
108-88-3   Toluene	108-10-1					1		
10061-02-6   trans-1,3-Dichloropropene   not detected   nle   0.87 ug/L	108-88-3	Toluene				i i		
79-00-5         1,1,2-Trichloroethane         not detected         3         0.48 ug/L           127-18-4         Tetrachloroethene         not detected         1         0.32 ug/L           591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           126-48-1         Dibromochloromethane         not detected         10         0.86 ug/L           108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L	10061-02-6	trans-1,3-Dichloropropene			not detected	1		
127-18-4         Tetrachloroethene         not detected         1         0.32 ug/L           591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           126-48-1         Dibromochloromethane         not detected         10         0.86 ug/L           108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L	79-00-5	1,1,2-Trichloroethane			not detected			
591-78-6         2-Hexanone         not detected         nle         0.71 ug/L           126-48-1         Dibromochloromethane         not detected         10         0.86 ug/L           108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         nle         1.14 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L	127-18-4	Tetrachloroethene			not detected			
126-48-1         Dibromochloromethane         not detected         10         0.86 ug/L           108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L	591-78-6	2-Hexanone						
108-90-7         Chlorobenzene         not detected         4         0.39 ug/L           100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L	126-48-1	Dibromochloromethane				1		
100-41-4         Ethylbenzene         not detected         700         0.65 ug/L           1330-20-7         m+p-Xylenes         not detected         nle         1.14 ug/L           1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L	108-90-7	Chlorobenzene				1		
1330-20-7 m+p-Xylenes   not detected   nle   1.14 ug/L     1330-20-7 o-Xylene   not detected   nle   0.62 ug/L     100-42-5   Styrene   not detected   100   0.56 ug/L     75-25-2   Bromoform   not detected   4   0.70 ug/L     79-34-5   1,1,2,2-Tetrachloroethane   not detected   2   0.47 ug/L     541-73-1   1,3-Dichlorobenzene   not detected   600   0.55 ug/L	100-41-4	Ethylbenzene						,
1330-20-7         o-Xylene         not detected         nle         0.62 ug/L           100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L						1		
100-42-5         Styrene         not detected         100         0.56 ug/L           75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L		1						
75-25-2         Bromoform         not detected         4         0.70 ug/L           79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L								
79-34-5         1,1,2,2-Tetrachloroethane         not detected         2         0.47 ug/L           541-73-1         1,3-Dichlorobenzene         not detected         600         0.55 ug/L								
541-73-1 1,3-Dichlorobenzene not detected 600 0.55 ug/L				, .				
95-50-1 1,2-Dichlorobenzene not detected 600 0.64 ug/L								

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

## 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			NJDEP	#: 13461	0CW2M	W30	
Project:	LTM	M Case No.: 5175			Location: CW2 SDG No.:			
Matrix: (soil/	water)	WATER	-		Lab Sample	e ID:	5175.04	
Sample wt/ve	ol:	5.0	(g/ml) ML		Lab File ID:	4	VC002149.D	<del></del>
Level: (low/r	ned)	LOW	_		Date Receiv	ved:	2/15/00	
% Moisture:	not dec.	***			Date Analyz	zed:	2/17/00	
GC Column:	RTX50	02. ID: <u>0.2</u>	25 (mm)		Dilution Fac	tor:	1.0	
Soil Extract \	/olume:		_ (uL)		Soil Aliquot	Volu	me:	(uL)
Number TICs	s found:	0		CONCENTF (ug/L or ug/k			· 	
CAS NO.		COMPOU	ND NAME		RT	ES	T. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Operator VC002150.D

Skelton

Sample Name Field ID 5175.05 0CW2MW31

Date Acquired

17 Feb 2000 4:45 am

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane	,		not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1.2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	F î	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	i	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether		· · · · · · · · · · · · · · · · · · ·	not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene	<u> </u>		not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1.1.2-Trichloroethane	-		not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene	- I		not detected	1	0.32 ug/L	
591-78-6	2-Hexanone		1511	not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene		·	not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes		<del></del>	not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected		0.62 ug/L	
100-42-5	Styrene			not detected	nle	0.56 ug/L	
75-25-2	Bromoform			not detected	100	0.36 ug/L 0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected			
541-73-1					- 2	0.47 ug/L	
106-46-7	1,3-Dichlorobenzene 1,4-Dichlorobenzene	<del>  </del>		not detected	600	0.55 ug/L	
95-50-1				not detected	75	0.57 ug/L	
1-02-56	1,2-Dichlorobenzene	<u> </u>	OI 's and Ground 3	not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range -

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established R.T. ≃ Retention Time

2/18/00 10:55 AM

### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:
-----------

Lab Name:	_ab Name: FMETL			NJDEF	P#: 13461	OCW2MV	N31	
Project:	LTM	Cas	se No.: 5175		ation: CW2	SI	DG No.:	<del></del>
Matrix: (soil/	water)	WATER			Lab Sample	- ID:	5175.05	•
Sample wt/ve	ol:	5.0	(g/ml) ML		Lab File ID:		VC002150.D	
Level: (low/r	ned)	LOW	_		Date Receiv	/ed:	2/15/00	
% Moisture:	not dec.				Date Analyz	ed:	2/17/00	
GC Column:	RTX5	02. ID: <u>0.</u> 2	25 (mm)		Dilution Factor: 1.0			
Soil Extract \	√olume:		_ (uL)		Soil Aliquot	Volu	me:	(uL)
Number TICs	s found:	0	-	CONCENTF (ug/L or ug/l	RATION UNI Kg) <u>UG</u>			
CAS NO.		COMPOU	ND NAME	<u>:</u>	RT	ES	T. CONC.	Q

### Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File

VC002151.D

Sample Name Field ID

5175.06 0CW2MW32

Operator Date Acquired Skelton

17 Feb 2000 5:26 am

Sample Multiplier

CAS#	Compound Name	R.Ţ.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifie
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	ule	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nie	1.01 ug/L	i -
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate		-	not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachioroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nJe	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	-
100-42-5	Styrene			not detected	100	0.56 ug/L	·
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene		-	not detected	600	0.47 ug/L 0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	-
95-50-1	1,2-Dichlorobenzene			not detected	600	0.57 ug/L 0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

## 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FMETL	NJDEF	P#: 13461	0CW2MW32			
Project: LTM	Case No.: 5175 Loca	ation: CW2	SDG No.:	_		
Matrix: (soil/water) WATE	ER	Lab Sample I	D: <u>5175.06</u>	_		
Sample wt/vol: 5.0	(g/ml) ML	Lab File ID:	VC002151.D			
Level: (low/med) LOW		Date Receive	ed: <u>2/15/00</u>			
% Moisture: not dec.		Date Analyze	ed: <u>2/17/00</u>			
GC Column: RTX502. ID:	: <u>0.25</u> (mm)	Dilution Facto	or: 1.0			
Soil Extract Volume:	(uL)	Soil Aliquot V	olume:(u	ıL)		
Number TICs found: 0	(ug/L or ug/l	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L				
CAS NO. COM	POUND NAME	RT	EST. CONC. Q			

### Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VC002152.D

Operator

Skelton

Sample Name Field ID

5175.07 0CW2MW33

Date Acquired

17 Feb 2000 6:07 am

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	1
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75343	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	8.86	143659	9.26 ug/L	700	1.36 ug/L	7
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156594	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-35-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	66	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nie	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

### **VOLATILE ORGANICS ANALYSIS DATA SHEET** TENTATIVELY IDENTIFIED COMPOUNDS

	FIELD ID:	
	0CW2MW33	
S	 DG No.:	_
);	5175.07	_
	VC002152 D	

Lab Name: **FMETL** NJDEP#: 13461 **LTM** Case No.: 5175 Location: CW2 Project: Lab Sample ID Matrix: (soil/water) WATER Lab File ID: Sample wt/vol: 5.0 (g/mi) ML Level: (low/med) LOW Date Received: 2/15/00 % Moisture: not dec. Date Analyzed: 2/17/00 GC Column: RTX502. ID: 0.25 Dilution Factor: 1.0 Soil Aliquot Volume: Soil Extract Volume: (uL) **CONCENTRATION UNITS:** (ug/L or ug/Kg) Number TICs found: CAS NO. COMPOUND NAME RT EST. CONC. Q

## Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name BNA03639.D

Sample Name

Sblk344

Operator

Bhaskar

Misc Info

Sblk344

Date Acquired

18-Feb-00

Sample Multiplier

G1.G#		<b>80.0</b> 0	<b>D</b>	Donate	Regulatory Level (ug/L)*	2 475.4		
CAS#	Name	R.T.	Response	Result	1	MDL		Qualifiers
110-86-1	Pyridine	1		not detected	NLE		ug/L	
62-75-9	N-nitroso-dimethylamine	-	,	not detected	20		ug/L	
62-53-3	Aniline	+		not detected	NLE		ug/L	
108-95-2	Phenol	1 1		not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10		ug/L	
95-57-8	2-Chlorophenol	<del>  </del>	·	not detected	40_		ug/L	
541-73-1	1,3-Dichlorobenzene	+ +	<u> </u>	not detected	600		ug/L	<del> </del>
106-46-7	1,4-Dichlorobenzene	+		not detected	75		ug/L	<del> </del>
100-51-6	Benzyl alcohol	+ +	*	not detected	NLE		ug/L	
95-50-1	1,2-Dichlorobenzene	+ +	-	not detected	600		ug/L	<b></b>
95-48-7	2-Methylphenol	1 -		not detected	NLE		ug/L	<del> </del>
108-60-1	bis(2-chloroisopropyl)ether	╅╌╌╏		not detected	300		ug/L	
106-44-5	4-Methylphenol	<del>  </del>	,	not detected	NLE	-	ug/L	
621-64-7	n-Nitroso-di-n-propylamine	+ -		not detected	20		ug/L	ļ
67-72-1	Hexachloroethane	+ -		not detected	10		ug/L	<del> </del>
98-95-3	Nitrobenzene	+ - 1		not detected	10		ug/L	
78-59-1	Isophorone	+		not detected	100		ug/L	<del> </del>
88-75-5	2-Nitrophenol	+		not detected	NLE		ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100		ug/L	
111-91-1	bis(2-Chloroethoxy)methane	1	· · · · · · · · · · · · · · · · · · ·	not detected	NLE		ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20		ug/L	
65-85-0	Benzoic Acid	<del>                                     </del>		not detected	NLE		ug/L	<u> </u>
120-82-1	1,2,4-Trichlorobenzene	╀	<del></del>	not detected	9		ug/L	
91-20-3	Naphthalene	<del>-  </del>		not detected	NLE		ug/L	
106-47-8	4-Chloroaniline			not detected	NLE		11 <u>9</u> /L	
87-68-3	Hexachlorobutadiene	<del>┤</del>		not detected	1		ug/L	-
59-50 <u>-</u> 7	4-Chloro-3-methylphenol			not detected	NLE		ug/L	
91-57-6	2-Methylnaphthalene	+		not detected	NLE	1.08	ug/L	<u> </u>
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol	<u> </u>		not detected	20		ug/L	<u> </u>
95-95-4	2,4,5-Trichlorophenol	<del> </del> -	<del></del>	not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	us/L	
88-74-4	2-Nitroaniline	1		not detected	NLE	0.96	ug/L	
131-11-3	Dimethylphthalate	$\bot$		not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene		•••	not detected	NLE	0.96	ug/L	ļ
606-20-2	2,6-Dinitrotoluene	<b> </b>		not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline	1 1		not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol	<u> </u>		not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BNA03639.D

Operator

Bhaskar

18-Feb-00

Sample Name

Sblk344

Misc Info

Sblk344

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MOL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/L	
86-73-7	Fluorene			not detected	300	0.99 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/L	
100-01-6	4-Nitroaniline	_		not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	Ĭ
120-12-7	Anthracene			not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	1
129-00-0	Pyrene			not detected	200	1.25 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/L	
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perviene			not detected	NLE	0.84 ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Lab Coo	de 13461		Sblk	344
Project	100004	Case No.: 517	'5	Locat	ion CW2	s	DG No.:	
Matrix: (soil/	water)	WATER		Ĺ	_ab Sample	e ID:	Sblk344	
Sample wt/v	oł:	1000 (g/ml) ML	-	_ L	ab File ID:	•	BNA03639.	D
Level: (low/i	med)	LOW		E	Date Recei	ved:	2/15/00	
% Moisture:		decanted: (Y/N)	1	<u>y</u> E	Date Extra	ted:	2/17/00	
Concentrate	d Extract	Volume: <u>1000</u> (uL)	)	E	Date Analy	zed:	2/18/00	
Injection Vol	ume: <u>1.</u>	0 (uL)			Dilution Fac	ctor:	1.0	
GPC Cleanu	p: (Y/N)	N pH: 7			-			
Number TIC	s found:		CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L					
CAS NUME	BER	COMPOUND NAME			RT	ES	ST. CONC.	Q
1		unknown			7.07		1	1

## Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name BNA03641.D

Sample Name

5175.02

1

Operator

Bhaskar

Misc Info

Field Blank

Date Acquired

18-Feb-00

Sample Multiplier

					Regulatory Level		
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL	Qualifiers
110-86-1	Pyridine		<u></u>	not detected	NLE	1.83 ug	L
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 ug	L
62-53-3	Aniline	1		not detected	NLE	1.63 ug	L
108-95-2	Phenol			not detected	4000	0.82 ug	L
111-44-4	bis(2-Chloroethyl)ether	<u> </u>		not detected	10	1.28 ug	<u> </u>
95-57-8	2-Chlorophenol			not detected	40	2.00 ug	r l
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 ug	<u>r</u>
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ug	<u>r</u>
100-51-6	Benzyl alcohol			not detected	NLE	1.02 ug/	<u>ı.                                    </u>
95-50-1	1,2-Dichlorobenzene		· <u></u>	not detected	600	1.13 ug	L
95-48-7	2-Methylphenol	1		not detected	NLE	I.17 ug	ı
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1,39 ug	<u>L</u>
106-44-5	4-Methylphenol			not detected	NLE	0.35 ug	<u>r l</u>
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ug	<u>r.</u>
67-72-1	Hexachloroethane			not detected	10	1.50 ug	L
98-95-3	Nitrobenzene			not detected	10	0.97 սջ	ւ
78-59-1	Isophorone			not detected	100	1.01 ug	L
88-75-5	2-Nitrophenol			not detected	NLE	1.92 ug	ı .
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 սջ	L
111-91-1	bis(2-Chloroethoxy)methane		·	not detected	NLE	1.21 ug	L
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 ug	<u>ı                                    </u>
65-85 <b>-0</b>	Benzoic Acid			not detected	NLE	1.75 ug	L
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 ug	L
91-20-3	Naphthalene			not detected	NLE	1.27 ug	ı
106-47-8	4-Chloroaniline			not detected	NLE	1.09 ug	L
87-68-3	Hexachlorobutadiene		· · · · · · · · · · · · · · · · · · ·	not detected	1	0.71 ug	L
59-50 <u>-</u> 7	4-Chloro-3-methylphenol			not detected	NLE	1.39 ug	<u>L</u>
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 ug/	լ
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32 ug	L
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 ug	L L
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 ug	L
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 ug/	L
88-74-4	2-Nitroaniline			not detected	NLE	0.96 ug/	L
131-11-3	Dimethylphthalate			not detected	7000	1.52 ug/	ı l
208-96-8	Acenaphthylene			not detected	NLE	0.96 սջ	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 ug	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 ug	
83-32-9	Acenaphthene			not detected	400	1.10 ug	
51-28-5	2,4-Dinitrophenol	1	· · · · · · · · · · · · · · · · · · ·	not detected	40	1.44 ug	
132-64-9	Dibenzofuran	11		not detected	NLE	1.00 ug	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 ug	

### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

Operator

BNA03641.D

Bhaskar

18-Feb-00

Sample Name

5175.02

1

Misc Info

Field Blank

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Аzobenzene		<u> </u>	not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene	1		not detected	NLE	1.23	ug/L	
120-12-7	Anthracene	$\perp$		not detected	2000	1.12	ug/L	<u> </u>
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	<u> </u>
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	<u> </u>
92-87-5	Benzidine	_		not detected	50	4.18	ug/L	
129-00-0	Pyrene	<u>,</u>		not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]authracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	<u> </u>
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene	_		not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	ļ
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-3 <b>9</b> -5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	.20	0.64	ug/L	L
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

### 1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID	
Field Blank	

						Field B	lank
Lab Name:	FMETL	<u> </u>	Lab Cod	de <u>13461</u>		- Inelu B	idiiK
Project	100004	Case No.: 5175	Locat	tion CW2	_ \$1	DG No.:	
Matrix: (soil/	water)	WATER	i	Lab Sample	D:	5175.02	
Sample wt/v	ol:	1000 (g/ml) ML		Lab File ID:		BNA03641.E	)
Level: (low/r	med)	LOW	I	Date Recei	ved:	2/15/00	<u> </u>
% Moisture:		decanted: (Y/N) _	N I	Date Extrac	ted:	2/17/00	
Concentrate	d Extract	Volume: 1000 (uL)	ł	Date Analyz	zed:	2/18/00	
Injection Vol	ume: 1.	0 (uL)	i	Dilution Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	N pH: 7					
				•			
			CONCE	NTRATION	UNI	TS:	
Number TIC:	s found:	1	(ug/L or	ug/Kg)	UG/I	<u>L</u>	
CAS NUME	BER	COMPOUND NAME		RT	ES	T. CONC.	Q
		The second secon		7.07	<del>                                     </del>	4	

## Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name BNA03642.D

Sample Name

5175.03

Operator

Bhaskar

Misc Info

Dupe 1

Date Acquired

18-Feb-00

Sample Multiplier

CACH	None	70 m	D		Regulatory Level (ug/L)*			•
CAS#	Name	R.T.	Response	Result	<del></del>	MDL		Qualifiers
110-86-1	Pyridine	1 1		not detected	NLE		ug/L	
62-75-9	N-nitroso-dimethylamine Aniline	+ -		not detected	20	0.91	_	ļ
62-53-3 108-95-2	Phenol	+		not detected	NLE		ug/L	
				not detected	4000	0.82		<del></del>
111-44-4 95-57-8	bis(2-Chloroethyl)ether			not detected	10	1.28		
·	2-Chlorophenol 1,3-Dichlorobenzene	<del> </del> -		not detected	40	2.00		
541-73-1 106-46-7	1,4-Dichlorobenzene	+		not detected	600	1.21		
	Benzyl alcohol	1		not detected	75	1.19		
100-51-6		1 1		not detected	NLE	1.02		
95-50-1 95-48-7	1,2-Dichlorobenzene	1 1		not detected	600	1.13		
108-60-1	2-Methylphenol bis(2-chloroisopropyl)ether	1		not detected	NLE	1.17		
106-44-5	4-Methylphenol	<del> </del>		not detected	300	1.39		— <del>;</del>
621-64-7	n-Nitroso-di-n-propylamine	<del>  </del>		not detected	NLE 20	0.35 0.80		
67-72-1	Hexachloroethane	<del>                                     </del>		not detected	10	1.50		
98-95-3	Nitrobenzene	+		not detected	10	0.97		
78-59-1	Isophorone	1		not detected	100	1.01		
88-75-5	2-Nitrophenol	1 1		not detected	NLE	1.92		
105-67-9	2,4-Dimethylphenol	1 1		not detected	100	2.62		<u> </u>
111-91-1	bis(2-Chloroethoxy)methane	1		not detected	NLE	1.21		
120-83-2	2,4-Dichlorophenol	1 1		not detected	20	1.33		
65-85-0	Benzoic Acid	1 1		not detected	NLE	1.75		
120-82-1	1,2,4-Trichlorobenzene	1		not detected	9	1.73		
91-20-3	Naphthalene	†		not detected	NLE	1.27		
106-47-8	4-Chloroaniline	† †		not detected	NLE	1.09		
87-68-3	Hexachlorobutadiene	1.	·	not detected	1	0.71		
59-50-7	4-Chloro-3-methylphenol	1 1		not detected	NLE	1.39		
91-57-6	2-Methylnaphthalene	1		not detected	NLE	1.08		
77-47-4	Hexachlorocyclopentadiene	1	· · · · · · · · · · · · · · · · · · ·	not detected	50	1.32		
88-06-2	2,4,6-Trichlorophenol	1		not detected	20	1.78		<del></del>
95-95-4	2,4,5-Trichlorophenol	1 1		not detected	700	1.28		
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01		
88-74-4	2-Nitroaniline	1 1		not detected	NLE	0.96		
131-11-3	Dimethylphthalate	<del>                                     </del>	· · · · · · · · · · · · · · · · · · ·	not detected	7000	1.52	- 1	
208-96-8	Acenaphthylene	1						
606-20-2	2,6-Dinitrotoluene	<del>   </del>		not detected not detected	NLE NLE	0.96		
99-09-2	3-Nitroaniline	1 1		not detected	NLE	0.81		<u> </u>
83-32-9	Acenaphthene	1 1	<del></del>				ı	
		<del> </del>	<del> </del>	not detected	400	1.10		
51-28-5	2,4-Dinitrophenol		*	not detected	40 Na.ra	1.44	ī	
132-64-9	Dibenzofuran	1 1		not detected	NLE	1.00		<del> </del>
100-02-7	4-Nitrophenol	11		not detected	NLE	1.06	ug/L	

### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

Operator

BNA03642.D

Bhaskar

18-Feb-00

Sample Name

5175.03

Misc Info

Dupe

1

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL	Qua	difiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ս	g/L	
84-66-2	Diethylphthalate			not detected	5000	1.62 u	g/L	
86-73-7	Fluorene			not detected	300	0.99 u	g/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 น	g/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 և	g/L	
534-52-1	4,6-Dinitro-2-methylphenol		-	not detected	NLE	1.98 ս	g/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 u	g/L	
103-33-3	Azobenzene			not detected	NLE	0.67 u	g/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 u	g/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 u	g/L	
87-86-5	Pentachiorophenol	_		not detected	1	1.42 u	g/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 u	g/L	
120-12-7	Anthracene			not detected	2000	1.12 u	g/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 น	g/L	
206-44-0	Fluoranthene			not detected	300	1.64 ս	g/L	
92-87-5	Benzidine		-	not detected	50	4.18 ս	g/L	
129-00-0	Pyrene			not detected	200	1.25 u	g/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05 u	g/L	
56-55-3	Benzo(a)anthracene			not detected	10	1.19 u	g/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 u	g/L	
218-01-9	Chrysene			not detected	20	1.38 น	g/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 և	g/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ប	g/L	
205-99-2	Benzo(b)fluoranthene			not detected	10	1.25 u	g/L	
207-08-9	Benzo[k]fluoranthene			not detected	- 2	1.29 u	g/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 u	g/L	
193-39-5	Indeno[1,2,3-cd]pyrene		<u> </u>	not detected	20	0.83 u	g/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 u	g/L	
191-24-2	Benzo[g,h,i]perylene_	11		not detected	NLE	0.84 น	g/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

### 1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID	

						Dup	e
Lab Name:	FMETL	<u> </u>	Lab Co	de <u>13461</u>			<u> </u>
Project	100004	Case No.: 5175	Locat	tion CW2	_ SD	G No.:	
Matrix: (soil/	water)	WATER	I	Lab Sample	D: <u>5</u>	175.03	
Sample wt/ve	ol:	1000 (g/ml) ML		Lab File ID:	E	3NA03642.D	)
Level: (low/r	ned)	LOW	I	Date Receiv	/ed: 2	2/15/00	
% Moisture:		decanted: (Y/N)	<u>N</u> I	Date Extrac	ted: 2	2/17/00	
Concentrate	d Extract	Volume: <u>1000</u> (uL)	1	Date Analyz	zed: 2	2/18/00	<del>-</del>
Injection Volu	ume: <u>1.</u>	0 (uL)	I	Dilution Fac	tor: 1	.0	
GPC Cleanu	p: (Y/N)	NpH: _7					
			CONCE	NTRATION	UNITS	S:	
Number TICs	s found:	1	(ug/L or	ug/Kg)	UG/L		
CAS NUME	BER	COMPOUND NAME		RT	EST	. CONC.	Q
1.		unknown		7.07		5	J

## Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name BNA03643.D

Sample Name

5175.04

1

Operator

Bhaskar

Misc Info

0CW2MW30

Date Acquired

18-Feb-00

Sample Multiplier

a var			_		Regulatory Level (ug/L)*			
CAS#	Name	R.T.	Response	Result	1	MDL	г	Qualifiers
110-86-1	Pyridine	╌┠╼╼╼┫		not detected	NLE		ug/L	
62-75-9	N-nitroso-dimethylamine	+	·	not detected	20		ug/L	
62-53-3	Aniline	+ +	· · · · · · · · · · · · · · · · · · ·	not detected	NLE		ug/L	<u> </u>
108-95-2	Phenol	1 1	· · · · · · · · · · · · · · · · · · ·	not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol	$\bot$		not detected	NLE	1.02	ng/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol	_		not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether	4		not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane		·	not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone		- ··	not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol		_	not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	···
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	-
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08		
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32		
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78		
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28		
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01		
88-74-4	2-Nitroaniline			not detected	NLE	0.96		
131-11-3	Dimethylphthalate			not detected	7000	1.52		<del>"</del>
208-96-8	Acenaphthylene	1		not detected	NLE	0.96		
606-20-2	2,6-Dinitrotoluene	1		not detected	NLE			
99-09-2	3-Nitroaniline	1 1				0.81		
83-32-9	Acenaphthene	1 1		not detected	NLE	0.79		
		+		not detected	400	1.10		<del></del>
51-28-5	2,4-Dinitrophenol	<del>│                                    </del>	· <del></del>	not detected	40	1.44		<del></del>
132-64-9	Dibenzofuran	<del> </del>		not detected	NLE	1.00		
100-02-7	4-Nitrophenol	1		not detected	NLE	1.06	ug/L	

### Semi-Volatile Analysis Report Page 2

Data File Name

BNA03643.D

Sample Name

5175.04

Operator

Bhaskar

Misc Info

0CW2MW30

Date Acquired

18-Feb-00

Sample Multiplier

Regulator	•
Level	

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether	<u> </u>		not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene		<u></u>	not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene	1		not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3*-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene		1.	not detected	20	0.83	ug/L	
53-70 <u>-3</u>	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g.h.i]perylene		1	not detected	NLE	0.84	ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

Page 2 of 2

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: FM	ETŁ	Lab Code 13461	0CW2MW30			
Project 100	0004 Case No.: 5175	Location CW2 SD0	6 No.:			
Matrix: (soil/wate	r) <u>WATER</u>	Lab Sample ID: 5	175.04			
Sample wt/vol:	1000 (g/ml) ML	Lab File ID: B	NA03643.D			
Level: (low/med)	LOW	Date Received: 2/	15/00			
% Moisture:	decanted: (Y/N) _	N Date Extracted: 2/	17/00			
Concentrated Ext	tract Volume: 1000 (uL)	Date Analyzed: 2/	18/00			
Injection Volume:	1.0 (uL)	Dilution Factor: 1.	0			
GPC Cleanup: (Y	/N) N pH: 7					
Number TICs fou	nd: 1	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L				
CAS NUMBER	COMPOUND NAME	RT EST.	CONC. Q			

## Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name BNA03646.D

Sample Name

5175.05

Operator

Bhaskar

Misc Info

0CW2MW31

Date Acquired

19-Feb-00

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Oualifiers
110-86-1	Pyridine	1		not detected	NLE		ug/L	
62-75-9	N-nitroso-dimethylamine	<u>"</u>		not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE		ug/L	
108-95-2	Phenoi			not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether		!	not detected	10		ug/L	<u> </u>
95-57-8	2-Chlorophenol	T		not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13		
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenoi			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-ргоруlamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1,09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	<u> </u>
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96	ug/L	<u></u>
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene	$\bot$		not_detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene	<u> </u>		not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline	<u>1                                     </u>		not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene			not detected	400	1.10	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40		ug/L	
132-64-9	Dibenzofuran			not detected	NLE		ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06	ug/L	

### Semi-Volatile Analysis Report Page 2

Data File Name

BNA03646.D

Sample Name

5175.05

Operator

Bhaskar

Misc Info

0CW2MW31

Date Acquired

19-Feb-00

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene			not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	,
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	_10	0.94	ug/L	ļ. 
87-86-5	Pentachlorophenol			not detected	11	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Authracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	.		not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene		,	not detected	2	1.29	ug/L	
50-3 <u>2-8</u>	Benzo[a]pyrene		···	not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NĻE	0.84	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

H	E١	.D	ID	)
_	_			

Lab Name:	FMETL	·	Lab Co	de 13461		0CW2M	W31
Project	100004	Case No.: 5175	 Locat	tion CW2	SD	G No.:	
Matrix: (soil/	water)	WATER	1	Lab Sample	ID: <u>5</u>	175.05	
Sample wt/v	ol:	1000 (g/ml) ML		Lab File ID:	<u>E</u>	3NA03646.D	)
Level: (low/	med)	LOW	I	Date Receiv	/ed: <u>2</u>	2/15/00	<del>-</del>
% Moisture:		decanted: (Y/N)	N	Date Extrac	ted: 2	2/17/00	
Concentrate	d Extract	Volume: 1000 (uL)	I	Date Analyz	ed: <u>2</u>	2/19/00	
Injection Vol	ume: <u>1.</u>	0 (uL)	1	Dilution Fac	tor: <u>1</u>	.0	
GPC Cleanu	ip: (Y/N)	N pH: 7	_				
. Number TIC	s found:	1	CONCE (ug/L or	NTRATION ug/Kg)	UNITS	S:	
CAS NUM	BER	COMPOUND NAME		RT	EST	CONC.	Q
1.		unknown		7.07		4	J

## Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BNA03647.D

Sample Name

5175.06

Operator

Bhaskar

Misc Info

0CW2MW32

1

Date Acquired 19-Feb-00

Sample Multiplier

					Regulatory Level		
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL	Qualifiers
110-86-1	Pyridine	1		not detected	NLE	1.83 u	g/L
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91 u	g/L
62-53-3	Aniline			not detected	NLE	1.63 u	g/L
108-95-2	Phenol			not detected	4000	0.82 u	g/L
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28 u	g/L
95-57-8	2-Chlorophenol			not detected	40	2.00 ո	g/L
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21 u	g/L.
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19 ս	g/L
100-51-6	Benzyl alcohol			not detected	NLE	1.02 u	g/L
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13 ս	g/L
95-48-7	2-Methylphenol	<u> </u>		not detected	NLE	1.17 ս	g/L
108-60-1	bis(2-chloroisopropyl)ether	1		not detected	300	1.39 դ	g/L
106-44-5	4-Methylphenol			not detected	NLE	0.35 ս	g/L
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80 ս	g/L
67-72-1	Hexachloroethane	<u> </u>		not detected	10	1.50 և	g/L
98-95-3	Nitrobenzene			not detected	10	0.97 u	g/L
78-59-1	Isophorone			not detected	100	1.01 u	g/L
88-75-5	2-Nitrophenol			not detected	NLE	1.92 u	g/L
105-67-9	2,4-Dimethylphenol			not detected	100	2.62 u	g/L
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21 u	g/L
120-83-2	2,4-Dichlorophenol			not detected	20	1.33 u	e/L
65-85-0	Benzoic Acid		<u> </u>	not detected	NLE	1.75 u	g/L
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22 u	e/L
91-20-3	Naphthalene			not detected	NLE	1.27 ս	e/L
106-47-8	4-Chloroanitine			not detected	NLE	1.09 և	e/L
87-68-3	Hexachlorobutadiene			not detected	1	0.71 u	g/L
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39 u	e/L
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08 u	e/L
77-47-4	Hexachlorocyclopentadiene			not detected	50.	1.32 u	e/L
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78 u	e/L
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28 u	g/L
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01 u	<b>₽/L</b>
88-74-4	2-Nitroaniline			not detected	NLE	0.96 և	g/L
131-11-3	Dimethylphthalate			not detected	7000	1.52 սյ	
208-96-8	Acenaphthylene			not detected	NLE	0.96 այ	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81 u	
99-09-2	3-Nitroaniline			not detected	NLE	0.79 u	
83-32-9	Acenaphthene	1 1		not detected	400	1.10 u	
51-28-5	2,4-Dinitrophenol	1 1		not detected	40	1.44 u	
132-64-9	Dibenzofuran			not detected	NLE	1.00 us	
100-02-7	4-Nitrophenol	1 1		not detected	NLE	1.06 u	

### Semi-Volatile Analysis Report Page 2

Data File Name

BNA03647.D

Sample Name

5175.06

Operator

Bhaskar

Misc Info

0CW2MW32

Date Acquired

19-Feb-00

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene	i		not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene	-	1	not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	11	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene		·	not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected .	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene	<u> </u>		not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ng/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene	1 7		not detected	NLE	0.84	ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

### 1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Н	IELL	טוי

Project         100004         Case No.: 5175         Location CW2         SDG No.:           Matrix: (soil/water)         WATER         Lab Sample ID: 5175.06           Sample wt/vol:         1000         (g/ml) ML         Lab File ID: BNA03647.D           Level: (low/med)         LOW         Date Received: 2/15/00           % Moisture:         decanted: (Y/N)         N         Date Extracted: 2/17/00           Concentrated Extract Volume:         1000         (uL)         Date Analyzed: 2/19/00           Injection Volume:         1.0         (uL)         Dilution Factor: 1.0           GPC Cleanup:         (Y/N)         N         pH: 7           CONCENTRATION UNITS:           Number TICs found:         1         (ug/L or ug/Kg)         UG/L           CAS NUMBER         COMPOUND NAME         RT         EST. CONC.         CONCENTRATION	Lab Name:	FMETL		Lab Cod	de 13461		0CW2M	W32
Sample wt/vol:         1000         (g/ml)         ML         Lab File ID:         BNA03647.D           Level:         (low/med)         LOW         Date Received:         2/15/00           % Moisture:         decanted:         (Y/N)         N         Date Extracted:         2/17/00           Concentrated Extract Volume:         1000         (uL)         Date Analyzed:         2/19/00           Injection Volume:         1.0         (uL)         Dilution Factor:         1.0           GPC Cleanup:         (Y/N)         N         pH:         7    CONCENTRATION UNITS:  Number TICs found:  1  (ug/L or ug/Kg)  UG/L	Project	100004	Case No.: 5175	_ Locat	ion CW2	SD	G No.:	
Level: (low/med) LOW Date Received: 2/15/00 % Moisture: decanted: (Y/N) N Date Extracted: 2/17/00 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/19/00 Injection Volume: 1.0 (uL) Dilution Factor: 1.0 GPC Cleanup: (Y/N) N pH: 7  CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) UG/L	Matrix: (soil/w	rater)	WATER	1	Lab Sample	ID: <u>5</u>	5175.06	·
% Moisture: decanted: (Y/N) N Date Extracted: 2/17/00  Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/19/00  Injection Volume: 1.0 (uL) Dilution Factor: 1.0  GPC Cleanup: (Y/N) N pH: 7  CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) UG/L	Sample wt/vo	ol:	1000 (g/ml) ML	1	Lab File ID:	<u> </u>	BNA03647.E	)
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 2/19/00 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  GPC Cleanup: (Y/N) N pH: 7  CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) UG/L	Level: (low/m	ned)	LOW	ı	Date Receiv	/ed: 2	2/15/00	
Injection Volume: 1.0 (uL) Dilution Factor: 1.0  GPC Cleanup: (Y/N) N pH: 7  CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) UG/L	% Moisture:		decanted: (Y/N)	N I	Date Extrac	ted: 2	2/17/00	
GPC Cleanup: (Y/N) N pH: 7  CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) UG/L	Concentrated	Extract	Volume: 1000 (uL)	ا	Date Analyz	ed: 2	2/19/00	<del></del>
CONCENTRATION UNITS:  Number TICs found: 1 (ug/L or ug/Kg) UG/L	Injection Volu	me: <u>1.</u>	<u>0         (uL)</u>	I	Dilution Fac	tor:	1.0	
Number TICs found: 1 (ug/L or ug/Kg) UG/L	GPC Cleanup	o: (Y/N)	N pH: 7					•
CAS NUMBER COMPOUND NAME RT EST. CONC.	Number TICs	found:	1		•			
7.07		ER				EST		Q

## Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BNA03648.D

Sample Name

5175.07

1

Operator

Bhaskar

Misc Info

0CW2MW33

Date Acquired

19-Feb-00

Sample Multiplier

Regulatory

					Level (ug/L)*			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL		Qualifiers
110-86-1	Pyridine	<del> </del>		not detected	NLE	1.83		<u> </u>
62-75-9	N-nitroso-dimethylamine	<del>   </del>		not detected	20	0.91	ug/L	
62-53-3	Aniline	<del> </del>		not detected	NLE	1.63	ug/L	
108-95-2	Phenol	<del>-  </del>		not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether	1		not detected	10	1.28	ug/L	
95-57 <b>-</b> 8	2-Chlorophenol	1		not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene	ļ ·	· <del>-</del>	not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene	<u> </u>		not detected	75	1.19	ug/L_	
100-51-6	Benzyl alcohol	<b></b>		not detected	NLE	1.02	ug/L	
<u>95-50-1</u>	1,2-Dichlorobenzene	<u> </u>		not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	· ·
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine	ļ <u>.                                    </u>		not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane	<u> </u>		not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol	1	<u> </u>	not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid		·	not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene	<u> </u>		not detected	9	1.22	ug/L	<u> </u>
91-20-3	Naphthalene	ļ		not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	[
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81		
99-09-2	3-Nitroaniline			not detected	NLE	0.79	ļ	
83-32-9	Acenaphthene			not detected	400	1.10		
51-28-5	2,4-Dinitrophenol			not detected	40	1.44		
132-64-9	Dibenzofuran			not detected	NLE	1.00		
100-02-7	4-Nitrophenol			not detected	NLE	1.06		

## Semi-Volatile Analysis Report Page 2

Data File Name

BNA03648.D

Sample Name

5175.07

Operator

Bhaskar

Misc Info

0CW2MW33

Date Acquired

19-Feb-00

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result		MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 u	g/L
84-66-2	Diethylphthalate			not detected	5000	1.62 u	g/L
86-73-7	Fluorene			not detected	300	0.99 u	g/L
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 u	g/L
100-01-6	4-Nitroaniline			not detected	NLE	1.05 u	g/L
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ս	g/L
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ս	g/L
103-33-3	Azobenzene			not detected	NLE	0.67 u	g/L
101-55-3	4-Bromophenyl-phenylether	'		not detected	NLE	0.76 ս	g/L
118-74-1	Hexachlorobenzene		·	not detected	10	0.94 ս	g/L
87-86-5	Pentachlorophenol			not detected	1	1.42 ս	g/L
85-01-8	Phenanthrene			not detected	NLE	1.23 u	g/L
120-12-7	Anthracene			not detected	2000	1.12 ս	g/L
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ս	g/L
206-44-0	Fluoranthene			not detected	300	1.64 u	g/L
92-87-5	Benzidine	_		not detected	50	4.18 դ	g/L
129-00-0	Pyrene			not detected	200	1.25 u	g/L
85-68-7	Butylbenzylphthalate			not detected	100	1.05 u	g/L
56-55-3	Benzo[a]anthracene	_	<u></u>	not detected	10	1.19 u	g/L
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 u	g/L
218-01-9	Chrysene			not detected	20	1.38 դ	g/L
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ս	g/L
117-84-0	Di-n-octylphthalate			not detected	100	1.44 u	g/L
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 դ	g/L
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ນ	g/L
50-32-8	Benzo[a]pyrene			not detected	20	1.05 u	g/L
193-39-5	Indeno[1,2,3-cd]pyrene		<u></u>	not detected	20	0.83 u	e/L
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ս	g/L
191-24-2	Benzofg,h,i]perylene	1 1	<u> </u>	not detected	NLE	0.84 և	g/L

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

Page 2 of 2

1F

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIEL	D ID	)	
		-	

Lab Name:	FMETL		Lab Co	de 1	3461		OCW2M	W33
Project	100004	Case No.: 5175	 Loca	tion	CW2	S	DG No.:	
Matrix: (soil/	water)	WATER		Lab S	Sample	ID:	5175.07	
Sample wt/ve	ol:	1000 (g/ml) ML		Lab F	File ID:		BNA03648.D	<u> </u>
Level: (low/r	med)	LOW		Date	Receiv	ed:	2/15/00	
% Moisture:		decanted: (Y/N) _	N	Date	Extract	ed:	2/17/00	
Concentrate	d Extract	Volume: <u>1000</u> (uL)		Date	Analyz	ed:	2/19/00	
Injection Vol	ume: <u>1.0</u>	) (uL)		Diluti	on Fact	or:	1.0	
GPC Cleanu	p: (Y/N)	<u>N</u> pH: 7						
			CONCE	NTRA	ATION	UNI	TS:	
Number TIC:	s found:	3	(ug/L or	ug/K	g)	UG/	<u>.                                    </u>	
CAS NUME	BER	COMPOUND NAME			RT	ES	ST. CONC.	Q

### Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client:

U.S. Army

Lab. ID #:

BLK472

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

2/18/00

Ft. Monmouth, NJ 07703

Analysis Date:

2/29/00

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

T. Frankovich

Analyst:

Field ID:

Ext.	Meth:		Sep.	Funnel

Ext. Meth: Sep. F	unnei				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1	-	0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1 .		0.50	0.0009	ND
Toxaphene	· <b>1</b>		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

PQL = Practical Quantitation Limit

# Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client:

U.S. Army

Lab. ID #:

5175.02

DPW, SELFM-PW-EV

Date Rec'd:

.....

Bldg: 173

**Extraction Date:** 

2/15/00 2/18/00

Ft. Monmouth, NJ 07703

Analysis Date:

2/29/00

Analysis:

EPA Method 608

Location:

CW2 Wells

Matrix:

Aqueous

Field ID:

Field Blank

Ext. Meth:

T. Frankovich Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1	_	0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

PQL = Practical Quantitation Limit

Client:

U.S. Army

Lab. ID #:

5175.03

DPW, SELFM-PW-EV

Date Rec'd:

2/15/00

Bldg. 173

**Extraction Date:** 

2/18/00

Ft. Monmouth, NJ 07703

Analysis Date:

2/29/00

Analysis:

EPA Method 608

Location:

CW2 Wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

Dupe

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

5175.04

DPW, SELFM-PW-EV

Date Rec'd:

2/15/00

Bldg. 173

**Extraction Date:** 

2/18/00

Ft. Monmouth, NJ 07703

Analysis Date:

2/29/00

Analysis:

EPA Method 608

Location:

CW2 Wells

Matrix:

Aqueous

Analyst:

Field ID:

0CW2MW30

Ext. Meth:

T. Frankovich Sep. Funnel

Ext. Meth: Sep. Fur					
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1	·	0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1	•	0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochior 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

5175.05

DPW, SELFM-PW-EV

Date Rec'd:

J, , J.O.

Bldg. 173

**Extraction Date:** 

2/15/00 2/18/00

Ft. Monmouth, NJ 07703

Analysis Date:

2/29/00

Analysis:

EPA Method 608

Location:

CW2 Wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

0CW2MW31

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND
Heptachlor	1	-	0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1		0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1	•	0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

5175.06

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

2/15/00 2/18/00

Ft. Monmouth, NJ 07703

Analysis Date:

2/29/00

Analysis:

EPA Method 608

Location:

CW2 Wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

0CW2MW32

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0030	ND
beta-BHC	1		0.20	0.0024	ND
gamma-BHC	1		0.20	0.0015	ND
delta-BHC	1		NLE	0.0019	ND .
Heptachlor	1		0.40	0.0020	ND
Aldrin	1		0.04	0.0010	ND
Heptachlor Epoxide	1	·	0.20	0.0009	ND
Endosulfan I	1		0.40	0.0057	ND
4,4'-DDE	1		0.10	0.0009	ND
Dieldrin	1		0.03	0.0016	ND
Endrin	1		2.00	0.0020	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0033	ND
4,4'-DDD	1		0.10	0.0022	ND
4,4'-DDT	1		0.10	0.0013	ND
Endosulfan-Sulfate	1		0.40	0.0027	ND
Methoxychlor	1		40.00	0.0038	ND
Alpha-chlordane	1		0.50	0.0011	ND
Gamma-chlordane	1		0.50	0.0009	ND
Toxaphene	1		3.00	0.0273	ND ·
Arochlor 1016	1		0.50	0.0640	ND
Arochlor 1221	1		0.50	0.0500	ND
Arochlor 1232	1		0.50	0.0500	ND
Arochlor 1242	1		0.50	0.0280	ND
Arochlor 1248	1		0.50.	0.0500	ND
Arochlor 1254	1		0.50	0.0500	ND
Arochlor 1260	1		0.50	0.0680	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

5175.07

DPW, SELFM-PW-EV

Date Rec'd:

2/15/00

Bldg: 173

**Extraction Date:** 

2/18/00

Ft. Monmouth, NJ 07703

Analysis Date:

2/29/00

Analysis:

EPA Method 608

Location:

CW2 Wells

Matrix:

Aqueous

Analyst:

Field ID:

0CW2MW33

Ext. Meth:

T. Frankovich Sen. Funnel

Ext. Meth: Sep. 1	Ext. Meth: Sep. Funnel						
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)		
alpha-BHC	1		0.02	0.0030	ND		
beta-BHC	1		0.20	0.0024	ND		
gamma-BHC	1		0.20	0.0015	ND		
delta-BHC	1		NLE	0.0019	ND		
Heptachlor	1		0.40	0.0020	ND		
Aldrin	1		0.04	0.0010	ND		
Heptachlor Epoxide	1		0.20	0.0009	ND		
Endosulfan I	1		0.40	0.0057	ND		
4,4'-DDE	1		0.10	0.0009	ND		
Dieldrin	1		0.03	0.0016	ND		
Endrin	1		2.00	0.0020	ND		
Endrin Ketone	1		NLE	0.0012	ND		
Endosulfan II	1		0.40	0.0033	ND		
4,4'-DDD	1		0.10	0.0022	ND		
4,4'-DDT	1		0.10	0.0013	ND		
Endosulfan-Sulfate	1		0.40	0.0027	ND		
Methoxychlor	1		40.00	0.0038	ND		
Alpha-chlordane	1		0.50	0.0011	ND		
Gamma-chlordane	1		0.50	0.0009	ND		
Toxaphene	1		3.00	0.0273	ND		
Arochlor 1016	1		0.50	0.0640	ND		
Arochlor 1221	1		0.50	0.0500	ND		
Arochlor 1232	1		0.50	0.0500	ND		
Arochlor 1242	1	,	0.50	0.0280	ND		
Arochlor 1248	1		0.50	0.0500	ND		
Arochlor 1254	1		0.50	0.0500	ND		
Arochlor 1260	1		0.50	0.0680	ND		

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

Lab ID #: 5175

DPW, SELFM-PW-EV

Sample Prepared: 03/28/00

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-2

Field ID#: Method Blank

Ft. Monmouth, New Jersey

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	03/29/00	ND	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	ND	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	80.1	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Соррег	03/29/00	ND	1000	3.0
Iron	03/29/00	23.3	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	28.3	NLE	20.0
Manganese	03/29/00	ND	50	0.5
Mercury	02/23/00	ND	2	0.1
Nickel	03/29/00	ND	100	0.5
Potassium	03/29/00	171	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	1030	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	55.3	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5175.02

Sample Received: 02/15/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	03/29/00	ND	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	ND	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	ND	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Соррег	03/29/00	ND	1000	3.0
Iron	03/29/00	ND	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	ND	NLE	20.0
Manganese	03/29/00	ND	50	0.5
Mercury	02/23/00	ND	2	0.1
Nickel	03/29/00	ND	100.	0.5
Potassium	03/29/00	20.5	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	152	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

Lab ID #: 5175.03

DPW, SELFM-PW-EV

Sample Received: 02/15/00

Bldg. 173

Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

Site: CW-2

Field ID#: Dupe

Ft. Monmouth, New Jersey

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis _	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	03/29/00	53.1	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	268	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	52800	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	112000	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	6550	NLE	20.0
Manganese	03/29/00	297	50	0.5
Mercury	02/23/00	0.3	2	0.1
Nickel	03/29/00	ND	100	0.5
Potassium	03/29/00	9270	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	11700	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	21.9	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5175.04

Sample Received: 02/15/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW30

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)_	Level (ug/L)*	(ug/L)
Aluminum	03/29/00	20.4	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	24.3	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	28700	NLE	20.0
Chromium	03/29/00	ND	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	7.24	1000	3.0
Iron	03/29/00	1840	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	2480	NLE	20.0
Manganese	03/29/00	2.69	50	0.5
Mercury	02/23/00	0.3	2	0.1
Nickel	03/29/00	0.599	100	0.5
Potassium	03/29/00	5440	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	15700	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	1.58	NLE	1.0
Zinc	03/29/00	5.75	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5175.05

Sample Received: 02/15/00

Sample Matrix: Aqueous

Site:

CW-2

Field ID#: 0CW2MW31

Ft. Monmouth, New Jersey

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	03/29/00	11.7	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	264	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	53600	NLE	20.0
Chromium	03/29/00	1.08	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	14.0	1000	3.0
Iron	03/29/00	111000	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	6660	NLE	20.0
Manganese	03/29/00	301	50	0.5
Mercury	02/23/00	0.4	2	0.1
Nickel	03/29/00	ND	100	0.5
Potassium	03/29/00	9400	NLE	20.0
Selenium	03/29/00	. ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	12100	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	10.8	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

CW-2

Site:

Lab ID #: 5175.06 DPW, SELFM-PW-EV Sample Received: 02/15/00

Bldg. 173

Ft. Monmouth, NJ 07703

Sample Matrix: Aqueous

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW32

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	03/29/00	95.7	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	ND	8	2.0
Barium	03/29/00	70.0	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	76600	NLE	20.0
Chromium	03/29/00	1.98	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	25.5	1000	3.0
Iron	03/29/00	11300	300	10.0
Lead	03/29/00	ND	10	2.0
Magnesium	03/29/00	8120	NLE	20.0
Manganese	03/29/00	53.9	50	0.5
Mercury	02/23/00	0.2	2	0.1
Nickel	03/29/00	2.21	100	0.5
Potassium	03/29/00	6220	NLE	20.0
Selenium	03/29/00	3.74	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	27500	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	3.69	NLE	1.0
Zinc	03/29/00	29.2	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5175.07

Sample Received: 02/15/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	03/29/00	96.2	200	10.0
Antimony	03/29/00	ND	20	2.0
Arsenic	03/29/00	2.67	8	2.0
Barium	03/29/00	159	2000	0.5
Beryllium	03/29/00	ND	20	0.5
Cadmium	03/29/00	ND	4	0.5
Calcium	03/29/00	45500	NLE	20.0
Chromium	03/29/00	1.45	100	0.5
Cobalt	03/29/00	ND	NLE	0.5
Copper	03/29/00	ND	1000	3.0
Iron	03/29/00	54400	300	10.0
Lead	03/29/00	3.77	10	2.0
Magnesium	03/29/00	5340	NLE	20.0
Manganese	03/29/00	201	50	0.5
Mercury	02/23/00	ND	2	0.1
Nickel	03/29/00	1.80	100	0.5
Potassium	03/29/00	8500	NLE	20.0
Selenium	03/29/00	ND	50	3.0
Silver	03/29/00	ND	20	3.0
Sodium	03/29/00	14800	50000	20.0
Thallium	03/29/00	ND	10	3.0
Vanadium	03/29/00	ND	NLE	1.0
Zinc	03/29/00	11.5	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water				Notes
Units:		ug/l	ug/l	ug/l	ug/l	ugl	Feet	<del></del>	<del> </del>		•
NJDEP Criteria:	<u> </u>	300	50	200	8	10	-				]
04/24/1997	FMETL	9100	69	ND	ND	ND	6.45				V,S,P,M
07/10/1997	FMETL	12590	73	25	5.0	ND	7.05				V,S,P,M
10/22/1997	FMETL	34800	171	175	5.0	5.0	7.60			<u> </u>	V,S,P,M
01/08/1998	FMETL	2795	5.0	204	ND	4.0	5.20				V,S,P,M
04/07/1998	FMETL	3504	39.3	196	5.6	ND	6.56				V,S,P,M
07/14/1998	FMETL	10900	57.8	65.7	ND	ND	6.89				V,S,P,M
11/24/1998	FMETL	27500	182	ND	11.5	3.15	7.86				V,S,P,M
02/11/1999	FMETL	11000	100	505	8.3	ND	7.24				V,S,P,M
06/09/1999	FMETL	8210	145	521	6.33	ND	7.21				V,S,P,M
08/04/1999	FMETL	44800	212	304	9.05	6.02	7.43				V,S,P,M
11/03/1999	FMETL	6540	36.3	92.7	6.06	ND	7.02				V,S,P,M
02/15/2000	FMETL	1840	2.69	20.4	ND	ND	7.02				V,S,P,M

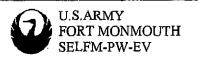
Sampling Dates: 04/24/1997 - 02/15/2000

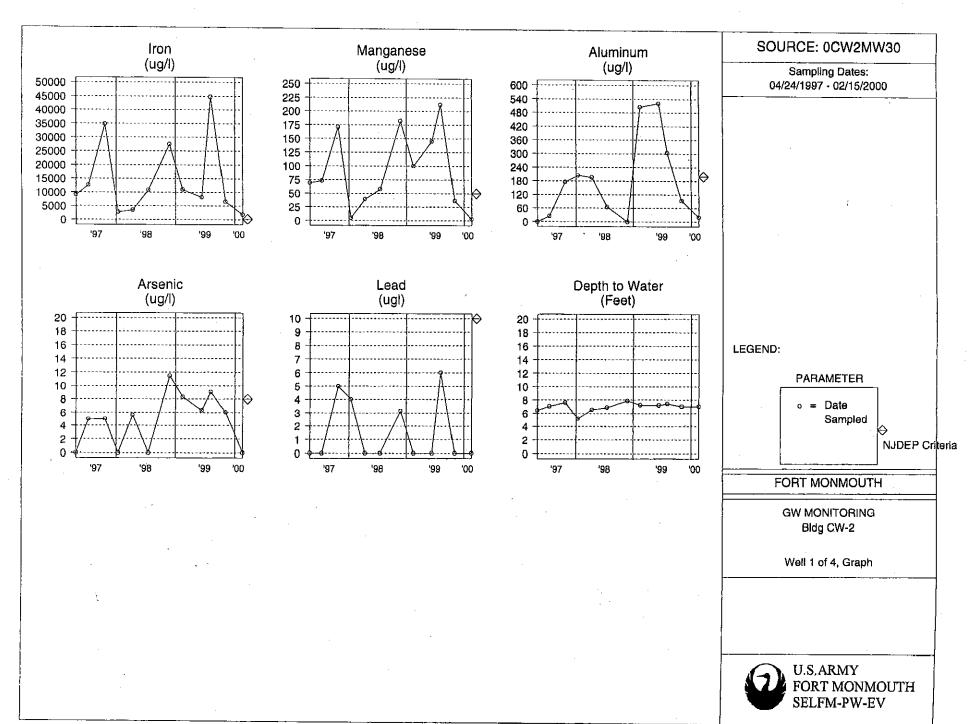
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 1 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/i	ug/l	ugl	Feet	
NJDEP Criteria:	-	300	50	200	8	10	-	
04/24/1997	FMETL	59900	277	ND	ND	ND	6.38	V,S,P,M
07/10/1997	FMETL	11830	267	ND	1.0	ND	7.00	 V,S,P,M
10/22/1997	FMETL	52300	243	93	ND	6.0	7.50	V,S,P,M
01/08/1998	FMETL	68450	240	129	ND	25	6.30	V,S,P,M
04/07/1998	FMETL	115100	266	ND	ND	ND	6.35	V,S,P,M
07/14/1998	FMETL	83600	311	390	ND	4.85	6.71	V,S,P,M
11/24/1998	FMETL	72800	322	ND	ND	2.33	7.78	V,S,P,M
02/11/1999	FMETL	71900	316	ND	ND	ND	7.07	 V,S,P,M
06/09/1999	FMETL	104000	326	27.9	ND	ND	7.15	V,S,P,M
08/04/1999	FMETL	77500	347	ND	ND	ND	7.65	V,S,P,M
11/03/1999	FMETL	64600	309	14.9	ND	ND	7.18	V,S,P,M
02/15/2000	FMETL	111000	301	11.7	ND	ND	7.03	V,S,P,M

SOURCE: 0CW2MW31

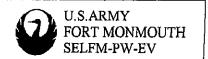
Sampling Dates: 04/24/1997 - 02/15/2000

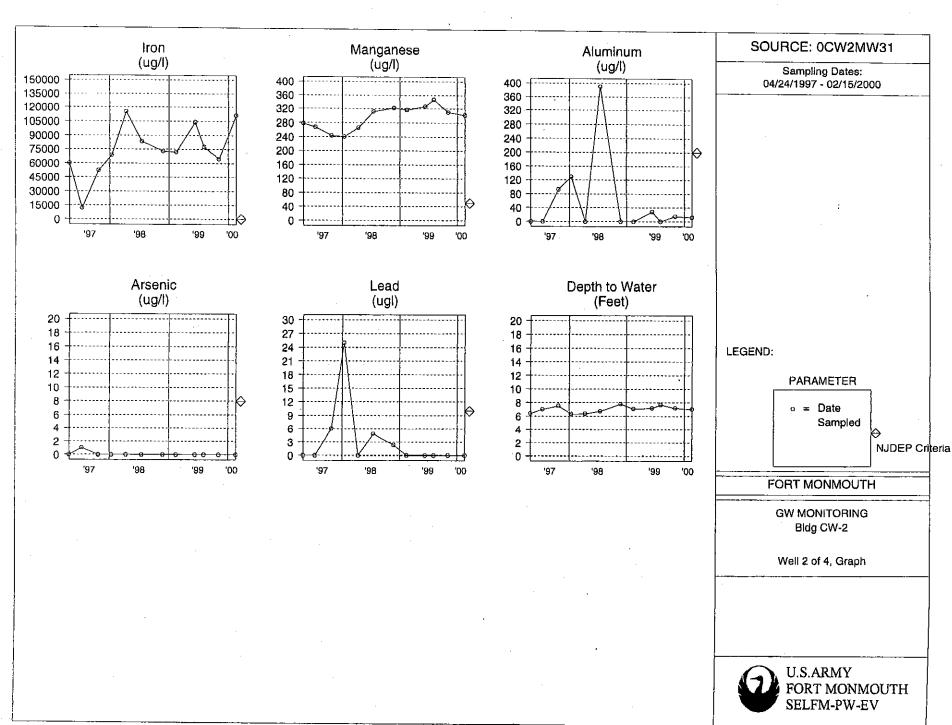
NOTES:

FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 2 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water			Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ugl	Feet			
NJDEP Criteria:	-	300	50	200	8	10	-	-	<del></del>	-
04/24/1997	FMETL	18400	125	ND	ND	ND	6.65			V,S,P,M
07/10/1997	FMETL	270	181	595	ND	ND	7.20			V,S,P,M
10/22/1997	FMETL	51100	260	297	ND	7.0	7.70			V,S,P,M
01/08/1998	FMETL	1484	3.7	163	ND	ND	4.50			V,S,P,M
04/07/1998	FMETL	19280	287	ND	ND	ND	6.81			V,S,P,M
07/14/1998	FMETL	67500	287	78.1	2.51	3.99	7.06			V,S,P,M
11/24/1998	FMETL	106000	342	166	9.32	4.08	7.94			V,S,P,M
02/11/1999	FMETL	4480	7.02	137	ND	ND	7.33	`		V,S,P,M
06/09/1999	FMETL	64300	310	59.5	ND	ND	7.49	· ·		V,S,P,M
08/04/1999	FMETL	76000	369	67.4	ND	ND	7.85			V,S,P,M
11/03/1999	FMETL	11500	27	162	4.09	ND	6.53		<u> </u>	V,S,P,M
02/15/2000	FMETL	11300	53.9	95.7	ND	ND	6.54	-		V,S,P,M
02/15/2000D	FMETL	112000	297	53.1	ND	ND	6.54			V,S,P,M

SOURCE: 0CW2MW32

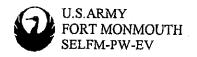
Sampling Dates: 04/24/1997 - 02/15/2000

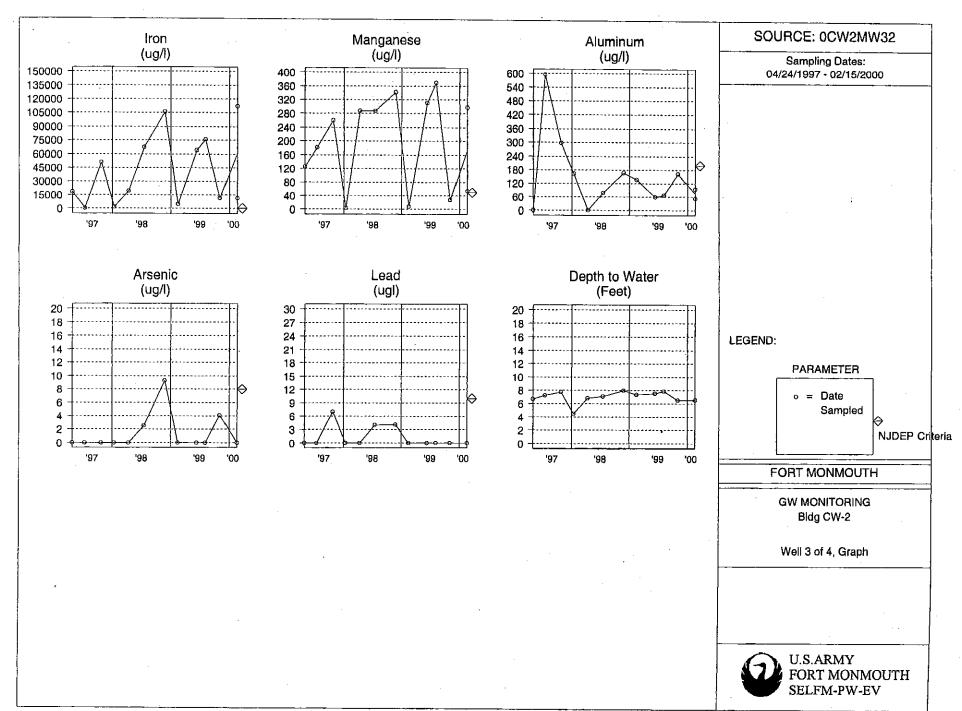
NOTES:

FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 3 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water		Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ugl	Feet		<del>  -</del>
NJDEP Criteria:	•	300	50	200	8	10			•
04/24/1997	FMETL	88600	424	ND	ΝD	ND	8.95		V,S,P,M
07/10/1997	FMETL	10260	519	2.1	1.0	ND	9.10		V,S,P,M
10/22/1997	FMETL	26800	151	94	ND	4.0	9.10		V,S,P,M
01/08/1998	FMETL	104700	342	217	6.0	4.0	9.00		V,S,P,M
04/07/1998	FMETL	19780	110	119	3.4	ND	9.50		V,S,P,M
07/14/1998	FMETL	35900	130	411	ИD	4.19	9.09		V,S,P,M
11/24/1998	FMETL	25400	87.8	125	ND	ND	9.13		V,S,P,M
02/11/1999	FMETL	11300	81.2	67.8	ND	ND	8.13		V,S,P,M
06/09/1999	FMETL	69600	214	336	5.82	ND	9.13		V,S,P,M
08/04/1999	FMETL	35900	149	69	8	3.25	9.15		V,S,P,M
11/03/1999	FMETL	19500	47.2	52.8	ND	ND	6.14		V.S.P,M
02/15/2000	FMETL	54400	201	96.2	2.67	3.77	9.09		V,S,P,M

SOURCE: 0CW2MW33

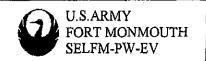
Sampling Dates: 04/24/1997 - 02/15/2000

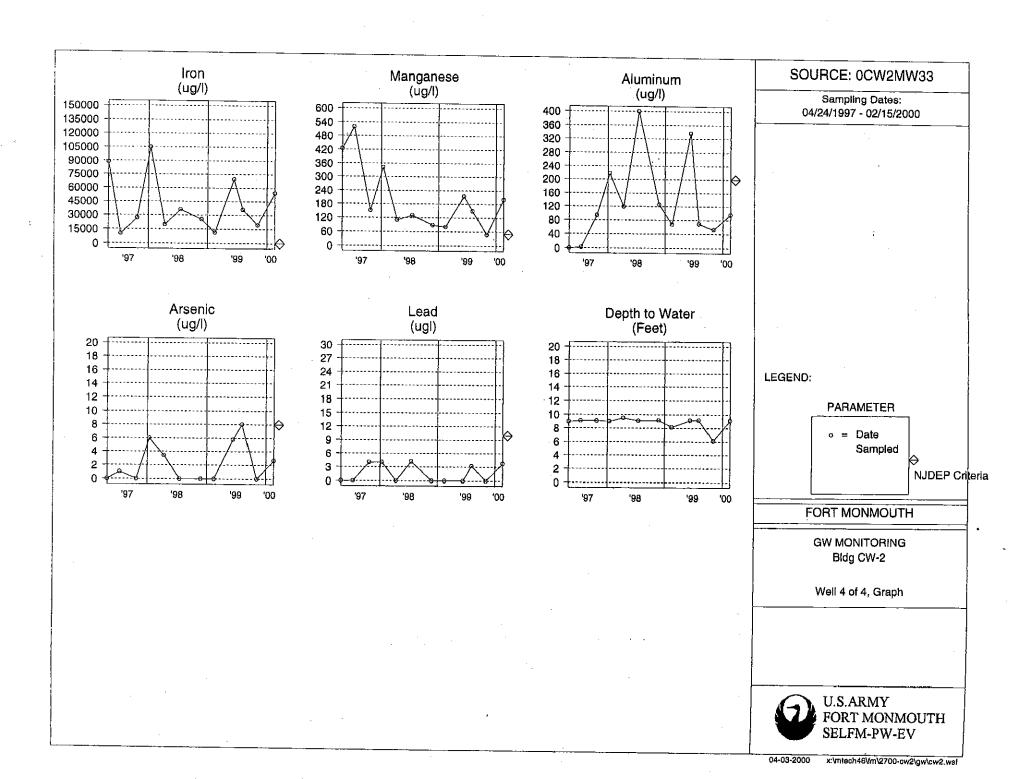
NOTES:

FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 4 of 4





# FORT MONMOUTH ENVIRONMENTAL

# **TESTING LABORATORY**

**DIRECTORATE OF PUBLIC WORKS** 

PHONE: (732)532-6224 FAX: (732)532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

#### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5401.04	0CW2MW30	29-32594	05/08/00
5401.05	0CW2MW31	29-32595	05/08/00
5401.06	0CW2MW32	29-32596	05/08/00
5401.07	0CW2MW33	29-32597	05/08/00

NJDEP Laboratory Certification # 13461

Daniel Wright/Date: Laboratory Director

# METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18 <sup>th</sup> ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid	625
Extractables by GC/MS	
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608



# Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

**Chain of Custody Record** 

Custom	er: 🏹 .	FALLOW	Proje	et No:							Ana	lysis l	Param	eters			Comments:	
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Samplers	Name / Con	npany: Corcy McCo	imack, TVS			Samp	le	#	Ş	46	1	A				<b>***</b> *** ***		
	nple I.D.	Sample Location	Date		Time	Туре		ottles	>	1	97	8	2			¥	Remarks / Preservation Method	
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Relinquishe	elinquished by (signature): Date/Time:				Received by (signature): Relinq				nuished by (signature): Date/Ti				i		signature):			
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**LOCATION: CW-2** MW#: 0CW2MW30 NJDEP ID #: 29-32594 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 05/08/00

WEATHER: Sunny, Hot.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.71 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 7.15 ft** DEPTH OF WELL: 17.95 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 10.80 ft (10.80) X .65 X 3 = 21.06

GALLONS OF H2O TO BE PURGED: 21 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 09:00** 

pH 6.85 su

TEMP 12.9 °C

DISSOLVED O2 5.70 ppm

SPECIFIC CONDUCTIVITY 110 us/cm

**PURGE END TIME: 10:31** 

pH 6.85 su

TEMP 12.8 °C

DISSOLVED O2 5.24 ppm

SPECIFIC CONDUCTIVITY 111 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.91 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 21 gal

SAMPLE START TIME: 10:32

DISSOLVED O2 5.19 ppm

SPECIFIC CONDUCTIVITY 111 us/cm

SAMPLE END TIME: 10:37

COMMENTS: DUP. Here.

LOCATION: CW-2 MW#: 0CW2MW31 NJDEP ID #: 29-32595 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 05/08/00

WEATHER: Sunny, hot.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.88 ft

INNER CASING DIA.: 4 INCH DEPTH TO WATER: 6.96 ft DEPTH OF WELL: 16.91 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 9.95 ft (9.95) X .65 X 3 = 19.40

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 08:55** 

pH 6.84 su

TEMP 13.1 °C

DISSOLVED O2 5.76 ppm

SPECIFIC CONDUCTIVITY 98 us/cm

PURGE END TIME: 10:17

pH 6.85 su

TEMP 12.9 °C

DISSOLVED O2 5.23 ppm

SPECIFIC CONDUCTIVITY 100 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10:05 ft (SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER) TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:18

pH 6.85 su

TEMP 12.9 °C

DISSOLVED O2 5.19 ppm

SPECIFIC CONDUCTIVITY 100 us/cm

SAMPLE END TIME: 10:24

COMMENTS:

LOCATION: CW-2 MW#: 0CW2MW32 NJDEP ID #: 29-32596 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 05/08/00 WEATHER: Sunny, hot.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.38 ft

INNER CASING DIA.: 4 INCH DEPTH TO WATER: 7.29 ft DEPTH OF WELL: 16.89 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 9.60 ft (9.60) X .65 X 3 = 18.72

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 08:47** 

pH 6.83 su

DISSOLVED O2 5.76 ppm

TEMP 12.7 °C

SPECIFIC CONDUCTIVITY 97 us/cm

PURGE END TIME: 10:09

pH 6.84 su

DISSOLVED O2 5.21 ppm

TEMP 12.7 °C

SPECIFIC CONDUCTIVITY 100 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 14.13 ft
(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 10:10

pH 6.83 su

DISSOLVED O2 5.17 ppm

10:15:55

TEMP 12.7 °C

SPECIFIC CONDUCTIVITY 101 us/cm

COMMENTS:

LOCATION: CW-2 MW#: 0CW2MW33 NJDEP ID #: 29-32597 **NJDEP CERT #: 13461** 

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 05/08/00 WEATHER: Sunny, hot.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.09 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 8.13 ft** DEPTH OF WELL: 16.10 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 7.97 ft  $(7.97) \times .65 \times 3 = 15.54$ 

GALLONS OF H2O TO BE PURGED: 16 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 08:45** 

pH 6.79 su

DISSOLVED O2 5.71 ppm

TEMP 12.9 °C

SPECIFIC CONDUCTIVITY 114 us/cm

PURGE END TIME: 09:55

pH 6.83 su

DISSOLVED O2 5.10 ppm

TEMP 12.8 °C

SPECIFIC CONDUCTIVITY 111 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.63 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 16 gal

SAMPLE START TIME: 09:56

pH - 6.82 su - TEMP 12.9 °C

DISSOLVED O2 5.04 ppm

SPECIFIC CONDUCTIVITY 112 us/cm

SAMPLE END TIME: 10:00

**COMMENTS:** 

# US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEPE # 13461

#### **Definition of Qualifiers**

MDL : Method Detection Limit

J : Compound identified below detection limit

B : Compound in both sample and blank

D : Results from dilution of sample

U : Compound searched for but not detected

E : Compound exceeds calibration limit

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VB006815.D

Sample Name Field ID Vblk208 Vblk208

Operator

Date Acquired

Skelton

9 May 2000 2:30 pm

Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane		 	not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4·	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	i		not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	<del></del>
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	<b></b>
108-05-4	Vinyl Acetate			not detected	nie	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	<del></del>
75-55-6	1.1.1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	<del></del>
71-43-2	Benzene		<del></del>	not detected	1	0.23 ug/L	
107-06-2	1.2-Dichloroethane	<u> </u>		not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	<del> </del>
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected		0.55 ug/L	<del></del>
110-75-8	2-Chloroethyl vinyl ether	<b>_</b>		not detected	nle	0.65 ug/L	<del> </del>
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone	t —		not detected	400	0.59 ug/L	<del> </del>
108-88-3	Toluene	<del> </del>		not detected	1000	0.37 ug/L	<del> </del>
10061-02-6	trans-1,3-Dichloropropene	<u> </u>		not detected	nle	0.87 ug/L	<del></del>
79-00-5	1,1,2-Trichloroethane	<del>                                     </del>		not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected		0.32 ug/L	<del>                                     </del>
591-78-6	2-Hexanone	<del>                                     </del>		not detected	nle	0.71 ug/L	<del>                                     </del>
126-48-1	Dibromochloromethane		<del></del>	not detected	10	0.86 ug/L	<del>                                     </del>
108-90-7	Chlorobenzene	<del> </del> -	<u>.</u>	not detected	4	0.39 ug/L	<del>                                     </del>
100-41-4	Ethylbenzene	<del> </del>		not detected	700	0.65 ug/L	<del> </del>
1330-20-7	m+p-Xylenes	<del> </del>		not detected		1.14 ug/L	
1330-20-7	o-Xylene	<del> </del>	<del></del>	not detected	nle	0.62 ug/L	<del></del>
100-42-5	<del></del>	<del>                                     </del>		not detected	nle	0.56 ug/L	<del> </del>
	Styrene	<del>  -</del>		not detected	100	0.70 ug/L	<del> </del>
75-25-2	Bromoform	<del>  -</del>	<u> </u>		4		<del> </del>
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
- <del>541-73-1</del>	1,3-Dichlorobenzene	<del> </del>		<del></del>	600	0.55 ug/L	<del> </del>
106-46-7	1,4-Dichlorobenzene	<del> </del>		not detected	75	0.57 ug/L	<del>                                     </del>
95-50-1	1,2-Dichlorobenzene	1		not detected	600	0.64 ug/L	<u>1</u>

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Project:	LTM		Vblk2	D8
NJDEP#:	13461	. Ca	se No.: 5401	 Locat	ion: CW2	SI	DG No.:	
Matrix: (soil/v	vater)	WATER	_	ŧ	_ab Sampie	D:	Vblk208	<u></u>
Sample wt/vo	ol:	5.0	(g/mł) ML_	<u> </u>	Lab File ID:		VB006815.D	
Level: (low/n	ned)	LOW	<del>_</del>	1	Date Recei	ved:	5/8/00	
% Moisture: I	not dec.		_ <u>_</u>	į	Date Analy	zed:	5/9/00	
GC Column:	RTX5	<u>02.</u> ID: <u>0.</u>	25 (mm)	ı	Dilution Fac	ctor:	1.0	
Soil Extract \	/olume:		(uL)	;	Soil Aliquot	Volu	me:	(uL)
			(	CONCENTR	ATION UN	ITS:		
Number TICs	s found:	0		ug/L or ug/K	(g) UG	/L	<del></del>	
CAS NO.		COMPO	JND NAME		RT	ES	ST. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VB006830.D

Skelton

Sample Name Field ID 5401.01 Trip Blank

Operator Date Acquired

10 May 2000 12:37 am

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nie	8.52 ug/L	
1634044	Methyl-tert-Butyl ether		_	not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	ale	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	_ 5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nie	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nlc	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	_ 2	0.24 ug/L	
1.56-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	_ 6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene		_	not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane		-	not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	яle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	niç	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nic	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nic	0.62 ug/L	<u> </u>
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541- <del>73-1</del>	i,3-Dichlorobenzene	1		not detected	600	0.55 ng/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL	· 	Project:	LTM		Trip Bi	ank
NJDEP#:	13461	Case No.: 5401	Locati	on: CW2	SI	DG No.:	
Matrix: (soil/	water)	WATER	L	ab Sample	D:	5401.01	· .
Sample wt/vo	ol:	5.0 (g/ml) ML	L	ab File ID:		VB006830.D	
Level: (low/r	med)	LOW	D	ate Recei	ved:	5/8/00	<u></u>
% Moisture:	not dec.	·	D	ate Analy	zed:	5/10/00	
GC Column:	RTX5	02. ID: 0.25 (mm)	D	ilution Fac	ctor:	1.0	
Soil Extract Volume		(uL)	S	oil Aliquot	Volu	me:	(uL)
Number TIC:	s found:	<u>0</u>	CONCENTRA (ug/L or ug/Ko				
CAS NO.		COMPOUND NAME		RT	ES	ST. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VB006831.D

Sample Name

5401.02

Operator

Skelton

Field ID

Field Blank

Date Acquired

10 May 2000 1:17 am

Sample Multiplier 1

CAS#	Compound Name	und Name R.T. Response		Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ng/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nie	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1.1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	<del> </del>
75-34-3	1,1-Dichloroethane		<del></del>	not detected	70	0.12 ug/L	, -
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	,
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1.1.1-Trichloroethane	i — —		not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1.2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	I	0.23 ug/L	
78-87-5	1,2-Dichloropropane	<del>                                     </del>		not detected	1	0.40 ug/L	·
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	<del> </del>
110-75-8	2-Chloroethyl vinyl ether			not detected	ule	0.65 ug/L	† <del></del>
10061-01-5	cis-1,3-Dichloropropene			not detected	nie	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone	<del></del>		not detected	400	0.59 ug/L	
108-88-3	Toluene		<del></del>	not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene		<del></del>	not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	T
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	<del>                                     </del>
591-78-6	2-Hexanone	<del></del>		not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	<del>                                     </del>
108-90-7	Chlorobenzene	<del>                                     </del>		not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	<del>                                     </del>
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene	<del>                                     </del>		not detected	nle	0.62 ug/L	
100-42-5	Styrene	<del>                                     </del>	<del> </del>	not detected	100	0.56 ug/L	<del> </del>
75-25-2	Bromoform	<del> </del>	<del>                                     </del>	not detected	4.	0.70 ug/L	<del> </del>
79-34-5	1,1,2,2-Tetrachloroethane	<del> </del>	<del> </del>	not detected	2	0.47 ug/L	<del> </del>
-541- <del>73-1</del>	1,3-Dichlorobenzene	<del></del>	<u> </u>	not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene	<del>                                     </del>	<del></del>	not detected	75	0.57 ug/L	
	1,2-Dichlorobenzene	<del> </del>	<del>-</del>	not detected		0.57 ug/L 0.64 ug/L	
95-50-1	1,2-Dichloropenzene	L	L	not detected	600	U.04 ug/L	<u> </u>

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab	ID.
-----	-----

Lab Name:	FMETL		Project: LTM	Field Blank		
NJDEP#:	13461	Case No.: 5401	Location: CW2 S	DG No.:		
Matrix: (soil/v	water)	WATER	Lab Sample ID:	5401.02		
Sample wt/vo	ol:	5.0 (g/ml) ML	Lab File ID:	VB006831.D		
Level: (low/r	ned)	LOW	Date Received:	5/8/00		
% Moisture:	not dec.		Date Analyzed:	5/10/00		
GC Column:	RTX50	02. ID: <u>0.25</u> (mm)	Dilution Factor:	1.0		
Soil Extract \	/olume:	(uL)	Soil Aliquot Volu	me: (uL)		
			CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L			
				<u> </u>		
CAS NO.		COMPOUND NAME	RT ES	ST. CONC. Q		

#### Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File

VB006832.D

Sample Name

5401.03

Operator

Skelton

Field ID

Dupe

Date Acquired 10 May 2000 1:57 am

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (sg/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nie	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nie	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nic	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nic	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	<u> </u>
108-05-4	Vinyl Acetate			not detected	пle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,I-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	zle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nie	1.14 ug/L	ļ — — — — — — — — — — — — — — — — — — —
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	1
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	$\vdash$		not detected	2	0.47 ug/L	t
541-73-1	1,3-Dichiorobenzene	ļ	<u> </u>	not detected	600	0.55 ug/L	<del> </del>
106-46-7	1,4-Dichlorobenzene	<del>                                     </del>	<del></del>	not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene	<del>                                     </del>	<del> </del>	not detected	600	0.64 ug/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

#### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab	ID.
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Lab Name:	FMETL			Project:	LTM		Dup	е.
NJDEP#:	13461	Case No.:	5401	Locatio	n: CW2	s	DG No.:	
Matrix: (soil/w	vater)	WATER		·La	b Sample	∍ ID:	5401.03	····
Sample wt/vo	d:	5.0 (g/ml)	ML	La	b File ID:		VB006832.D	<del></del>
Level: (low/m	ned)	LOW		Da	ate Recei	ved:	5/8/00	
% Moisture: n	ot dec.			Da	ate Analyz	zed:	5/10/00	
GC Column:	RTX5	<u>02.</u> ID: <u>0.25</u> (n	nm)	Di	lution Fac	ctor:	1.0	
Soil Extract Volume: (uL)				Soil Aliquot Volume:				(uL)
			CO	NCENTRA	TION UN	ITS:		
Number TICs	found:	0	(ug/	L or ug/Kg	<u>UG</u>	/L		
CAS NO.		COMPOUND NA	ME		RT	ES	ST. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VB006833.D

Skelton

Sample Name Field ID 5401.04 0CW2MW30

Operator

Date Acquired

10 May 2000 2:36 am

Sample Multiplier 1

CAS#	Compound Name	und Name R.T. Response Result		Result	Regulatory Level (ug/l)*	MDL	Qualifiers
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
<i>75</i> 718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	1
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	1
78-93-3	2-Butanone			not detected	300	0.62 ug/L	<del></del> -
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected		0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene		_	not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether		·	not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	i	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	_700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2				not detected		0.70 ug/L	
		i		not actected	4	U.70 U2/L	
	Bromoform		· · · · · · · · · · · · · · · · · · ·	not detected	2		
79-34-5						0.47 ug/L	
	Bromoform 1,1,2,2-Tetrachloroethane			not detected	2		

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

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Lab Name:	FMETL		Project: LTM		UCVVZIVI	W3U	
NJDEP#:	13461	Case No.: 5401	Location: CW	2 S	SDG No.:		
Matrix: (soil/	water)	WATER	Lab Samp	ole ID:	5401.04		
Sample wt/v	ol:	5.0 (g/ml) ML	Lab File II	כ:	VB006833.D		
Level: (low/i	med)	<u>LOW</u>	Date Rec	eived:	5/8/00	<del></del>	
% Moisture:	not dec.		Date Anal	yzed:	5/10/00		
GC Column:	RTX5	02. ID: 0.25 (mm)	Dilution F	actor:	1.0	<del></del>	
Soil Extract \	Soil Extract Volume: (uL)			ot Volu	ime:	(uL)	
			CONCENTRATION U	NITS:			
Number TIC	s found:	0	ug/L or ug/Kg) <u>U</u>	G/L			
CAS NO.		COMPOUND NAME	RT	E	ST. CONC.	Q	

#### Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File

VB006834.D

Skelton

Sample Name Field ID

5401.05

Operator Date Acquired

10 May 2000 3:16 am

0CW2MW31

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein		_	not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	_ 30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nlc	0.50 ug/L	1
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1.1-Dichloroethane			not detected	70	0.12 ug/L	<del></del>
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ng/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene		-	not detected	.1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene		-	not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected .	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	<u> </u>
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene		l —	not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform		<u> </u>	not detected	4	0.70 ug/L	1
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	ļ <u>.</u>
541-73-1	i,3-Dichlorobenzene		<del> </del>	not detected	600	0.55 ug/L	
106-46-7	1.4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1.2-Dichlorobenzene		<del> </del>	not detected		0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Project:	LTM		0CW2MW	/31
NJDEP#:	13461	Ca	se No.: 5401	Locati	on: CW2	S	DG No.:	
Matrix: (soil/	water)	WATER	_	L	ab Sample	D:	5401.05	
Sample wt/ve	ol:	5.0	(g/ml) ML	L	ab File ID:		VB006834.D	<del></del> -
Level: (low/r	med)	LOW	=	D	ate Recei	ved:	5/8/00	
% Moisture:	not dec.			D	ate Analy	zed:	5/10/00	<u> </u>
GC Column:	RTX5	02. ID: 0.1	25 (mm)	D	ilution Fac	ctor:	1.0	
Soil Extract Volume:		·	_ (uL)	S	ioil Aliquot	me:	(uL)	
Number TIC	s found:	0		:ONCENTRA Jg/L or ug/Ko			<u>.</u>	
CAS NO.		COMPOL	JND NAME		RT	ES	ST. CONC.	Q

#### Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VB006835.D

Skelton

Sample Name Field ID

5401.06 0CW2MW32

Operator

Date Acquired 10 May 2000 3:55 am

Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (0g/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile		,	not detected	50	2.78 ug/L	
75650	tert-Butyi alcohol		_	not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	<u> </u>
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	i
75-35-4	1.1-Dichloroethene		· · · · · · · · · · · · · · · · · · ·	not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ng/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	<del>                                     </del>
156-60-5	trans-1.2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1.1-Dichloroethane			not detected	70	0.12 ug/L	<b>-</b>
108-05-4	Vinyl Acetate		·	not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	<del>                                     </del>
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	<del> </del>
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	<del></del>
71-43-2	Benzene			not detected	1	0.23 ug/L	<del>                                     </del>
107-06-2	1.2-Dichloroethane			not detected	2	0.18 ug/L	<b></b>
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane	,		not detected	1	0.40 ug/L	<del>                                     </del>
75-27-4	Bromodichloromethane			not detected	<del></del>	0.55 ug/L	<del> </del> -
110-75-8	2-Chloroethyl vinyl ether			not detected	nlc	0.65 ug/L	<b></b>
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	<del> </del>
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	<u>├</u>
108-88-3	Toluene			not detected	1000	0.37 ug/L	<del> </del>
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	<del> </del> -
79-00-5	1.1.2-Trichloroethane			not detected	3	0.48 ug/L	<del>                                     </del>
127-18-4	Tetrachloroethene		<del></del>	not detected	1 1	0.32 ug/L	<del>                                     </del>
591-78-6	2-Hexanone		_	not detected	nle	0.71 ug/L	<del>  </del>
126-48-1	Dibromochloromethane		-	not detected	10	0.86 ug/L	<del>                                     </del>
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	<del>                                     </del>
100-41-4	Ethylbenzene		<del></del>	not detected	700	0.65 ug/L	<del>                                     </del>
1330-20-7	m+p-Xylenes			not detected	nie	1.14 ug/L	<del>  </del>
1330-20-7	o-Xylene	<del></del> -	<del></del>	not detected		0.62 ug/L	<del>                                     </del>
100-42-5	Styrene	<u> </u>	<del> </del> -	not detected	nic 100	0.56 ug/L	<del> </del>
75-25-2	Bromoform	<del> </del> -	<del></del>	not detected	100	0.70 ug/L	<del> </del>
79-34-5	1,1,2,2-Tetrachloroethane	<del></del>	<del> </del>	not detected		0.70 ug/L 0.47 ug/L	<del> </del> -
				not detected	2		<u> </u>
54 <del>1-73-1</del>	1,3-Dichlorobenzene	<del> </del> -	<del> </del>		600	0.55 ug/L	<del> </del> -
106-46-7	1,4-Dichlorobenzene	<del>                                     </del>	<del>  -</del>	not detected	75	0.57 ug/L	<del>├</del>
95-50-1	1,2-Dichlorobenzene	<u> </u>	<u> </u>	not detected	600	0.64 ug/L	<u></u>

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		Project:	LTM		0CW2MV	N32
NJDEP#:	13461	Case No.: 5401	Locatio	n: CW2	_ SI	DG No.:	· 
Matrix: (soil/wa	ater)	WATER	La	b Sample	ID:	5401.06	
Sample wt/vol	:	5.0 (g/ml) ML	La	b File ID:		VB006835.D	
Level: (low/m	ed)	LOW	Da	ate Receiv	ed:	5/8/00	
% Moisture: ne	ot dec.		Da	ate Analyz	ed:	5/10/00	_
GC Column:	RTX50	02. ID: 0.25 (mm)	Di	lution Fac	tor:	1.0	
Soil Extract Vo	olume:	(uL)	Sc	il Aliquot	Volu	me:	(uL)
Number TICs	found:	0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L				
CAS NO.		COMPOUND NAME		RT	ES	ST. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VB006836.D

Skelton

Sample Name Field ID 5401.07 0CW2MW33

Operator Date Acquired

10 May 2000 4:35 am

Sample Multiplier

CAS#	Compound Name R.T. Response Result		Result	Regulatory Level (ug/l)*	MDL	Qualifiers	
107028	Acrolein	7		not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	пје	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane	-		not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	_nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	_ 1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	1
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1.3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab	ID.
-----	-----

Lab Name:	FMETL			Project:	LTM		0CW2M\	W33
NJDEP#:	13461	Ca	se No.: 5401	Locati	on: CW2	s	DG No.:	
Matrix: (soil/v	vater)	WATER	_	L	ab Sample	D:	5401.07	
Sample wt/vo	ol: .	5.0	(g/ml) ML	L	ab File ID:		VB006836.D	
Level: (low/n	ned)	LOW	=		ate Recei	ved:	5/8/00	
% Moisture: ı	not dec.			E	ate Analy:	zed:	5/10/00	<del></del>
GC Column:	RTX50	02. ID: <u>0.</u> :	25 (mm)	0	ilution Fac	tor:	1.0	
Soil Extract Volume:			(uL)	S	oil Aliquot	me:	(uL)	
•				CONCENTRA	NU NOITA	ITS:		
Number TICs found: 0			(ug/L or ug/Kg) UG/L					
CAS NO.		COMPOU	JND NAME		RT	ES	ST. CONC.	Q

### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BNA03933.D

Sample Name

Sblk368

Operator

Bhaskar

Misc Info

Sblk368 A 000510

Date Acquired

26-May-00

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE		ug/L	Validities
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	
62-53-3	Aniline			not detected	NLE		ug/L	
108-95-2	Phenol			not detected	4000		ug/L	···
111-44-4	bis(2-Chloroethyl)ether			not detected	10		ug/L	
95-57-8	2-Chlorophenol			not detected	40		ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600		ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75		ug/L	
100-51-6	Benzyl alcohol		-	not detected	NLE		ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600		ug/L	
95-48-7	2-Methylphenol			not detected	NLE		ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene		-	not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87 <b>-</b> 68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene	$oldsymbol{ol}}}}}}}}}}}}}}}}}$		not detected	NLE	1.08	ug/L	
<u>77-47-4</u>	Hexachlorocyclopentadiene			not detected	-50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91- <u>5</u> 8-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			доt detected	NLE	0.81		
99-09-2	3-Nitroaniline			not detected	NLE	0.79		
83-32-9	Acenaphthene			not detected	400	1.10		
51-28-5	2,4-Dinitrophenol			not detected	40	1.44		
132-64-9	Dibenzofuran			not detected	NLE	1.00		
100-02-7	4-Nitrophenol			not detected	NLE	1.06		

#### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BNA03933.D

Operator

Bhaskar

26-May-00

Sample Name

SbIk368

Misc Info

Sblk368 A 000510

Sample Multiplier

					Regulatory Level			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene	1	<u> </u>	not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62	ug/L	
86-73-7	Fluorene	1	·	not detected	300	0.99	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine		·	not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether		<u> </u>	not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene		·	not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87 <b>-</b> 5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene		·	not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidin€			not detected	60	1.75	ug/L	
218-01-9	Chrysene			not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate		<b></b>	not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene	<u>[</u>		not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	u2/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84	ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Field Id:	Fie	lđ	ld:
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							i Chiles	oco I	
Lab Name:	FMETL		ا	Lab Co	de <u>13461</u>		Sblk		
Project:	100004	Case No.: 5401		Locat	tion: CW2	s	DG No.:		
Matrix: (soil/	water)	WATER		ı	Lab Sampl	e ID:	Sblk368		
Sample wt/ve	ol:	1000 (g/ml) ML		i	Lab File ID	:	BNA03933.E	<u> </u>	
Level: (low/r	ned)	LOW		. [	Date Rece	ived:	5/8/00		
% Moisture:		decanted: (Y/N)	N	!	Date Extra	cted:	5/10/00	-	
Concentrated	d Extract		Date Analyzed: 5/26/00			5/26/00			
Injection Volu	ume: <u>1.</u> 0	O (uL)		[	Dilution Fa	ctor:	1.0	-	
GPC Cleanu	p: <b>(Y/N)</b>	NpH:							
Number TICs	CONCENTRATION UNITS: Number TICs found: 1 (ug/L or ug/Kg) UG/L								
CAS NUME	BER -	COMPOUND NAME			RT	ES	ST. CONC.	Q	
4		unknown			0.07	<del> </del>		<del></del>	

### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BNA03935.D

Sample Name

5401.02

Operator

Bhaskar

Misc Info

Field Blank

Date Acquired

26-May-00

Sample Multiplier

					Regulatory Level			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ug/L	
62-53-3	Aniline			not detected	NLE	1.63	սջ/Լ	
108-95-2	Phenol		· · · · · · · · · · · · · · · · · · ·	not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ng/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohoi			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether		-	not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine		·	not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene	<u> </u>		not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol		· · · · · · · · · · · · · · · · · · ·	not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane	$\downarrow \downarrow \downarrow$		not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol	1		not detected	20	1.33	ng/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	_ 1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol	1 1	***	not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene	<b></b> _		not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol	1		not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene	<u> </u>		not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81		
99-09-2	3-Nitroaniline	[		not detected	NLE	0.79		
83-32-9	Acenaphthene	<u> </u>		not detected	400	1.10		
51-28-5	2,4-Dinitrophenol			not detected	40	1.44		
132-64-9	Dibenzofuran	$oxedsymbol{\bot}$		not detected	NLE	1.00		
100-02-7	4-Nitrophenol			not detected	NLE	1.06		·

#### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BNA03935.D

Operator

Bhaskar

26-May-00

Sample Name

5401.02

Misc Info

Field Blank

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	
84-66-2	Diethylphthalate			not detected	5000	1.62 u	g/L
86-73-7	Fluorene			not detected	300	0.99 u	g/L
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 u	g/L
100-01-6	4-Nitroaniline			not detected	NLE	1.05 u	
534-52-1	4,6-Dinitro-2-methylphenol	1		not detected	NLE.	1.98 u	g/L
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 u	g/L
103-33-3	Azobenzene			not detected	NLE	0.67 u	g/L
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 u	g/L
118-74-1	Hexachlorobenzene			not detected	10	0.94 น	g/L
87-86-5	Pentachlorophenol			not detected	1	1.42 u	e/L
85-01-8	Phenanthrene			not detected	NLE	1.23 u	e/L
120-12-7	Anthracene			not detected	2000	1.12 u	e/L
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ย	g/L
206-44-0	Fluoranthene			not detected	300	1.64 u	g/L
92-87-5	Benzidine			not detected	50	4.18 u	e/L
129-00-0	Pyrene			not detected	200	1.25 u	e/L
85-68-7	Butylbenzylphthalate	1		not detected	100	1.05 u	₽/L
56-55-3	Benzo[a]anthracene			not detected	. 10	1.19 ս	2/L
91-94-1	3,3'-Dichlorobenzidine		· <u> </u>	not detected	60	1.75 u	2/L
218-01-9	Chrysene			not detected	20	1.38 u	z/L
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 u	z/L '
<u>117-84-0</u>	Di-n-octylphthalate	<u> </u>		not detected	100	1.44 ս	2/L
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 u	2/L
207-08-9	Benzo[k]fluoranthene			not detected	_ 2	1.29 u	/L
50-32-8	Benzo[a]pyrene			not detected	20	1.05 u	/L
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 u	уL
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 u	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 դ	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field Blank

Field Id:

Lab Name:	FMETL			Lab Co	de 13461		Field	Blank ——		
Project:	100004	Case	No.: <u>5401</u>	Loca	tion: CW2	_ s	DG No.:			
Matrix: (soil/	water)	WATER			Lab Sample	e ID:	5401.02			
Sample wt/ve	ol:	1000 (	g/ml) ML	<u></u>	Lab File ID:		BNA03935.	D		
Level: (low/r	ned)	LOW			Date Recei	ved:	5/8/00	·		
% Moisture:		decant	ed: (Y/N) _	N	Date Extrac	ted:	5/10/00	<del></del>		
Concentrated	d Extract	Volume: 100	00(uL)		Date Analyz	zed:	5/26/00			
Injection Volu	ume: <u>1.</u>	0 (uL)			Dilution Fac	tor:	1.0			
GPC Cleanu	p: (Y/N)	NpH	:							
				CONCENTRATION UNITS:						
Number TICs found: 1				(ug/L or ug/Kg) UG/L						
CAS NUME	BER	COMPOUND	NAME		RT	ES	T. CONC.	Q		
1,		unknown	· · · · · · · · · · · · · · · · · · ·		6.97		9	J		

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name BNA03936.D

Sample Name

5401.03

Operator

Bhaskar

Misc Info

Dupe

Date Acquired

26-May-00

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		_Qualifiers
110-86-1	Pyridine		**	not detected	NLE		ug/L	Quantiers
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	
62-53-3	Aniline		-	not detected	NLE		ug/L	
108-95-2	Phenol			not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10		ug/L	
95-57-8	2-Chlorophenol			not detected	40		ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600		ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75		ug/L	
100-51-6	Benzyl alcohol		· · · · · · · · · · · · · · · · · · ·	not detected	NLE	1.02		
95-50-1	1,2-Dichlorobenzene	<u>.</u>		not detected	600	1.13		
95-48-7	2-Methylphenol			not detected	NLE	1.17		
108-60-1	bis(2-chloroisopropyl)ether	į		not detected	300	1.39		
106-44-5	4-Methylphenol	1		not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ng/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ng/L	
105-67-9	2,4-Dimethylphenol	1		not detected	100	2.62	սջ/Լ	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid	$\bot$		not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline	1		not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene	ļ	· · · · · · · · · · · · · · · · · · ·	not detected	11	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol	<del>                                     </del>		not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene	ļļ		not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	
<u>9</u> 1-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline	<u> </u>		not detected	NLE	0.96	ug/L	
131-11-3	Dimethylphthalate		- N	not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.96	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81	ug/L	
99-09-2	3-Nitroaniline	1		not detected	NLE	0.79	ug/L	
83-32-9	Acenaphthene	lacksquare		not detected	400	1.10	ug/L	
<u>51-28-5</u>	2,4-Dinitrophenol			not detected	40	1.44	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	1.00		
100-02-7	4-Nitrophenol	<u> </u>	<u>_</u>	not detected	NLE	1.06	_	

#### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

Operator

BNA03936.D

Bhaskar

26-May-00

Sample Name

5401.03

Misc Info

Dupe

Sample Multiplier

1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.62		
86-73-7	Fluorene		•	not detected	300	0.99		
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10		
100-01-6	4-Nitroaniline			not detected	NLE	1.05		
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98		
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01		
103-33-3	Azobenzene			not detected	NLE	0.67	ng/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76		
118-74-1	Hexachlorobenzene			not detected	10	0.94		
87-86-5	Pentachlorophenol			not detected	1	1.42		
85-01-8	Phenanthrene			not detected	NLE	1.23		
120-12-7	Anthracene			not detected	2000	1.12		
84-74-2	Di-n-butylphthalate			not detected	900	1.70		
206-44-0	Fluoranthene			not detected	300	1.64		
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25		
85-68-7	Butyibenzyiphthalate			not detected	100	1.05		-
56-55-3	Benzo[a]anthracene			not detected	10	1.19		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75		
218-01-9	Chrysene		Ţ	not detected	20	1.38		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74		
117-84-0	Di-n-octylphthalate			not detected	100	1.44		
<del>205-9</del> 9-2	Benzo[b]fluoranthene			not detected	10	1.25		
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29		
50-32-8	Benzo[a]pyrene			not detected	20	1.05		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83		
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84		

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		Lab Co	de <u>13461</u>		Dup	)e
Project:	100004	Case No.: 5401	Loca	tion: CW2	SI	DG No.:	
Matrix: (soil/v	water)	WATER		Lab Sample	D:	5401.03	
Sample wt/vo	ol:	1000 (g/ml) ML		Lab File ID:		BNA03936.[	<u> </u>
Level: (low/r	ned)	LOW		Date Receiv	ved:	5/8/00	
% Moisture:		decanted: (Y/N)	<u>N</u>	Date Extrac	ted:	5/10/00	
Concentrated	d Extract	Volume: 1000 (uL)		Date Analyz	zed:	5/26/00	
Injection Volu	ıme: <u>1.</u>	0 (uL)		Dilution Fac	tor:	1.0	
GPC Cleanup	p: (Y/N)	N pH:					
			CONCE	NTRATION	UNIT	Г <b>S</b> :	
Number TICs	found:	1	(ug/L or	ug/Kg)	UG/L	<del>-</del>	
CAS NUMB	BER	COMPOUND NAME		RT	ES	T. CONC.	Q
1 4		•			ı		

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name BNA03937.D

Sample Name

5401.04

Operator

Bhaskar

Misc Info

0CW2MW30

Date Acquired

26-May-00

Sample Multiplier

Regulator
Level
(mall \*

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	
62-53-3	Aniline		<u></u> .	not detected	NLE		ug/L	
108-95-2	Phenol			not detected	4000	0.82	ne/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10		ug/L	
95-57-8	2-Chlorophenol			not detected	40	2.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600		ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75		ug/L	
100-51-6	Benzyl alcohol			not detected	NLE		ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13		
95-48-7	2-Methylphenol			not detected	NLE	1.17		
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39		
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine		·	not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane			not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97		
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol	i		not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	į	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33		
<u>65-85-0</u>	Benzoic Acid	1.		not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	. 9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ng/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylmaphthalene		•	not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene	1		not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ug/L	•••
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.96	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ug/L	
208-96-8	Acenaphthylene	1		not detected	NLE	0.96		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81		_
99-09-2	3-Nitroaniline			not detected	NLE	0.79		
83-32-9	Acenaphthene			not detected	400	1.10		
51-28-5	2,4-Dinitrophenol			not detected	40	1.44		
132-64-9	Dibenzofuran		···	not detected	NLE	1.00		
100-02-7	4-Nitrophenol			not detected	NLE	1.06		

#### Semi-Volatile Analysis Report Page 2

Data File Name

Operator

191-24-2

BNA03937.D

Bhaskar

Date Acquired 26-May-00 Sample Name

5401.04

Misc Info

0CW2MW30

Sample Multiplier

1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87	ug/L	Quantiers
84-66-2	Diethylphthalate			not detected	5000	1.62		
86-73-7	Fluorene			not detected	300	0.99		
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10		
100-01-6	4-Nitroaniline			not detected	NLE	1.05	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.67	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23	ug/L	
120-12-7	Anthracene			not detected	2000	1.12	ug/L	
84-74-2	Di-n-butylphthalate		·	not detected	900	1.70	ug/L	
206-44-0	Fluoranthene			not detected	300	1.64	ug/L	
92-87-5	Benzidine			not detected	50	4.18	ug/L	
129-00-0	Pyrene			not detected	200	1.25	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.05	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75	ug/L	
218-01-9	Chrysene	<del>                                     </del>		not detected	20	1.38	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25	ug/L	
207-08-9	Benzo[k]fluoranthene		<u> </u>	not detected	2	1.29	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05	ug/L	
1 <u>93-39</u> -5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83	ug/L	
53-70-3	Dibenz[a,h]anthracene	$\perp \perp \downarrow$		not detected	20	0.64 1	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

Benzo[g,h,i]perylene

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

#### 1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field	ld:

Lab Name:	FMETL			_ab Code _13461	OCW2M	IW30
Project:	100004	Case No.:	5401	Location: CW2	SDG No.:	
Matrix: (soil/	water)	WATER		Lab Sample II	D: <u>5401.04</u>	
Sample wt/v	ol:	1000 (g/ml)	ML	Lab File ID:	BNA03937.E	<u> </u>
Level: (low/r	med)	LOW		Date Receive	d: <u>5/8/00</u>	
% Moisture:		decanted: (	Y/N) <u>N</u>	Date Extracte	d: 5/10/00	
Concentrate	d Extract	Volume: <u>1000</u>	(uL)	Date Analyze	d: <u>5/26/00</u>	
Injection Vol	ume: <u>1.</u>	0 (uL)		Dilution Facto	or: 1.0	
GPC Cleanu	p: (Y/N)	NpH:		•		
Number TICs	s found:	1		ONCENTRATION U	NITS: G/L	
CAS NUME	BER	COMPOUND NA	ME	RT	EST. CONC.	Q
1 4				00-	4.4	

### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name BNA03938.D

Sample Name

5401.05

Operator

Bhaskar

Misc Info

**0CW2MW31** 

Date Acquired

26-May-00

Sample Multiplier

					Regulatory Level			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL	<del>,</del>	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91	ng/L	
62-53-3	Aniline			not detected	NLE	1.63	ug/L	
108-95-2	Phenol	1 1		not detected	4000	0.82	ug/L	
111-44-4	bis(2-Chloroethyl)ether	1		not detected	10	1.28	ug/L	
95-57-8	2-Chlorophenol	4		not detected	40	2.00	ug/L	
541-73 <u>-</u> 1	1,3-Dichlorobenzene	+		not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19	ug/L	
100-51-6	Benzyl alcohol	1		not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene	-	<u> </u>	not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol	1		not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether	1	- '	not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine	1		not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane	1		not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
<u>65-85-0</u>	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
<u>59-50-7</u>	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28		
<u>91-58-7</u>	2-Chloronaphthalene			not detected	NLE	1.01		
88-74-4	2-Nitroaniline	11		not detected	NLE	0.96		
131-11-3	Dimethylphthalate			not detected	7000	1.52		
208-96-8	Acenaphthylene			not detected	NLE	0.96		·
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81		
99-09-2	3-Nitroaniline			not detected	NLE	0.79		
83-32-9	Acenaphthene			not detected	400	1.10		
51-28-5	2,4-Dinitrophenol			not detected	40	1.44		
132-64-9	Dibenzofuran			not detected	NLE	1.00		
100-02-7	4-Nitrophenol			not detected	NLE	1.06		

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA03938.D

Operator

Bhaskar

Date Acquired

26-May-00

Sample Name

5401.05

Misc Info

0CW2MW31

Sample Multiplier

.

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug	
86-73-7	Fluorene			not detected	300	0.99 ug	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ng/	L
103-33-3	Azobenzene			not detected	NLE	0.67 ug/	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ag/	L
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/	L
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/	L
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/	L
120-12-7	Anthracene			not detected	2000	1.12 ug/	L
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/	L
206-44-0	Fluoranthene			not detected	300	1.64 ug/	L
92-87-5	Benzidine	لنط		not detected	50	4.18 ug/	L T
129-00-0	Pyrene			not detected	200	1.25 ug/	ւ
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/	L
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/	L
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/	L
218-01-9	Chrysene			not detected	20	1.38 ug/	L
117-81-7	bis(2-Ethylhexyl)phthalate		· .	not detected	30	1.74 ug/	L
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/	L
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/	L
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/	
50-32-8	Benzo[a]pyrene		· .	not detected	20	1.05 ug/	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/	
53-70-3	Dibenz[a,h]anthracene	<u> </u>		not detected	20	0.64 ug/l	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

#### 1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	iel	id	ld:

Lab Name:	FMETL			_ Lab Co	de 13461		0CW2N	IW31
Project:	100004	Case No	.: <u>5401</u>	Loca	tion: CW2	s	DG No.:	-
Matrix: (soil/	water)	WATER			Lab Sample	D:	5401.05	
Sample wt/vo	ol:	1000 (g/n	nl) <u>ML</u>		Lab File ID:		BNA03938.	)
Level: (low/r	ned)	LOW			Date Receiv	/ed:	5/8/00	
% Moisture:		decanted	: (Y/N)	N .	Date Extrac	ted:	5/10/00	-
Concentrated	d Extract	Volume: <u>1000</u>	_ (uL)		Date Analyz	ed:	5/26/00	
Injection Volu	ıme: <u>1.0</u>	) (uL)			Dilution Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	N pH:						
			• •					
				CONCE	NTRATION	UNI	rs:	
Number TICs	found:	2		(ug/L or	ug/Kg)	UG/	<u></u>	
CAS NUME	ER	COMPOUND N	AME		RT	ES	T. CONC.	Q
4	f ·	rumlem maren			0.07	1.	4.5	

(Z)14-Tricosenyl formate

### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BNA03939.D

Sample Name

5401.06

Operator

Bhaskar

Misc Info

0CW2MW32

Date Acquired

26-May-00

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
110-86-1	Pyridine			not detected	NLE	1.83	ue/( .	Quanticis
62-75-9	N-nitroso-dimethylamine			not detected	20	0.91		
62-53-3	Aniline			not detected	NLE	1.63		
108-95-2	Phenol			not detected	4000	0.82		
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28		
95-57-8	2-Chlorophenol			not detected	40	2.00		
541-73-1	1,3-Dichlorobenzene			not detected	600	1.21	_	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19		
100-51-6	Benzyl alcohol			not detected	NLE	1.02		
95-50-1	1,2-Dichlorobenzene			not detected	600	1.13		
95-48-7	2-Methylphenol			not detected	NLE	1.17		
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39		
106-44-5	4-Methylphenol			not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane	1		not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.97	ug/L	
78-59-1	Isophorone			not detected	100	1.01	ug/L	
<u>88-75-5</u>	2-Nitrophenol	$\bot$		not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene	$\bot$		not detected	9	1.22	ug/L	
91-20-3	Naphthalene	1 1		not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	,
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene	$\sqcup$		not detected	NLE	1.08	ug/L	
77-47-4	Hexachlorocyclopentadiene	<b></b>		not detected	50	1.32	112/L	
88-06-2	2,4,6-Trichlorophenol	11		not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ng/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	ug/L	
88-74-4	2-Nitroaniline	1		not detected	NLE	0.96 1	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.52	ag/L	· -
208-96-8	Acenaphthylene			not detected	NLE	0.96 1	1g/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.81		
99-09-2	3-Nitroaniline	1		not detected	NLE	0.79 ι		
83-32-9	Acenaphthene	11		not detected	400	1.10 ı		
51-28-5	2,4-Dinitrophenol			not detected	40	1.44 t		1
132-64-9	Dibenzofuran			not detected	NLE	1.00 t	1g/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.06 t		

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA03939.D

Operator

Bhaskar

Date Acquired

26-May-00

Sample Name

5401.06

Misc Info

**0CW2MW32** 

Sample Multiplier

1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug	
86-73-7	Fluorene			not detected	300	0.99 ug	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug	_
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug	ı
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug	
103-33-3	Azobenzene			not detected	NLE	0.67 uz	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/	L
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/	
87-86-5	Pentachlorophenol			not detected	1	1.42 цу	L
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/	L
120-12-7	Anthracene			not detected	2000	1.12 ug/	
84-74-2	Di-n-butylphthalate			not detected	_ 900	1.70 ug/	
206-44-0	Fluoranthene			not detected	300	1.64 ug/	L
92-87-5	Benzidine			not detected	50	4.18 ug/	L
129-00-0	Pyrene			not detected	200	1.25 ug/	L
85-68-7	Butylbenzylphthalate			not detected	100	1.05 ug/	L
<u>56-55-3</u>	Benzo[a]anthracene			not detected	10	1.19 ug/	L
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.75 ug/	L
218-01-9	Chrysene			not detected	20	1.38 ug/	լ
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.74 ug/	L
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/	L
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/	
207-08-9	Benzo[k]fluoranthene	<u> </u>		not detected	2	1.29 ug/	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/	L
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.64 ug/	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit

NI E= No Limit Established ...

R.T.=Retention Time

### 1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field Id:
-----------

Lab Name:	FMETL	<u></u>	Lab (	Code 13461	OCW2N	IW32
Project:	100004	Case No.:	<u>5401</u> Lo	cation: CW2	SDG No.:	
Matrix: (soil/	water)	WATER		Lab Sample II	D: <u>5401.06</u>	
Sample wt/ve	ol:	1000 (g/ml)	ML	Lab File ID:	BNA03939.	)
Level: (low/r	med)	LOW		Date Received	d: <u>5/8/00</u>	
% Moisture:		decanted: (	Y/N) <u>N</u>	Date Extracted	d: 5/10/00	
Concentrated	d Extract	Volume: 1000	(uL)	Date Analyzed	: 5/26/00	<u>.                                    </u>
Injection Volu	ume: <u>1.</u>	0 (uL)		Dilution Factor	1.0	
GPC Cleanu	p: (Y/N)	NpH:	<u></u>			
Number TICs	s found:	1		ENTRATION UI or ug/Kg) <u>U(</u>	NITS: G/L	
CAS NUME	BER	COMPOUND NA	ME	RT E	EST. CONC.	Q
1.		unknown		6.97	11	J

### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BNA03940.D

Sample Name

5401.07

Operator

Bhaskar

Misc Info

0CW2MW33

Date Acquired

26-May-00

Sample Multiplier

	No	70.07	_		Regulatory Level (ug/L)*			
CAS#	Name	R.T.	Response	Result	· · · ·	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.83		
62-75-9	N-nitroso-dimethylamine	-		not detected	20		ug/L	
62-53-3	Aniline			not detected	NLE		ug/L	
108-95-2	Phenol			not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.28		·
95-57-8	2-Chlorophenol			not detected	40	2.00		
541-73-1	1,3-Dichlorobenzene	+ -		not detected	600	1.21	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.19		
100-51-6	Benzyl alcohol			not detected	NLE	1.02	ug/L	
95-50-1	1,2-Dichlorobenzene	+		not detected	600	1.13	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	1.17	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	1.39	ug/L	
106-44-5	4-Methylphenol	<del></del>		not detected	NLE	0.35	ug/L	
621-64-7	n-Nitroso-di-n-propylamine	1 1		not detected	20	0.80	ug/L	
67-72-1	Hexachloroethane	1		not detected	10	1.50	ug/L	
98-95-3	Nitrobenzene	1 1		not detected	10	0.97	u2/L	
78-59-1	Isophorone	1 1		not detected	100	1.01	ug/L	
88-75-5	2-Nitrophenol	1 1		not detected	NLE	1.92	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	2.62	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.21	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	1.33	ug/L	
65-85-0	Benzoic Acid	1	<u> </u>	not detected	NLE	1.75	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.22	ug/L	
91-20-3	Naphthalene			not detected	NLE	1.27	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.09	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.71	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	1.39	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.08	ug/L	-
77-47-4	Hexachlorocyclopentadiene	11		not detected	50	1.32	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	1.78	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	1.28	ag/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.01	- t	· · · · · · · · · · · · · · · · · · ·
88-74-4	2-Nitroaniline			not detected	NLE	0.96		
131-11-3	Dimethylphthalate	T		not detected	7000	1.52		
208-96-8	Acenaphthylene			not detected	NLE	0.96		
606-20-2	2,6-Dinitrotoluene			not detected	NLE ·		ug/L	<u> </u>
99-09-2	3-Nitroaniline			not detected	NLE	0.79		
83-32-9	Acenaphthene	<b> </b>	<del>-</del>	not detected	400	1.10	$-\tau$	
51-28-5	2,4-Dinitrophenol	1		not detected	400			
132-64-9	Dibenzofuran	<del>                                     </del>	·			1.44		
100-02-7	4-Nitrophenol	<del>                                     </del>		not detected	NLE	1.00 1		
100-02-1	1Muophenoi	<u> </u>		not detected	NLE	1.06 ı	ıg/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BNA03940.D

Operator

26-May-00

Bhaskar

Sample Name

Misc Info

5401.07 0CW2MW33

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL	Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	0.87 ug/I	
84-66-2	Diethylphthalate			not detected	5000	1.62 ug/I	
86-73-7	Fluorene			not detected	300	0.99 ug/I	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.10 ug/I	
100-01-6	4-Nitroaniline			not detected	NLE	1.05 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	1.98 ug/L	,
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.01 ug/L	,
103-33-3	Azobenzene	1		not detected	NLE	0.67 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.76 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	0.94 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.42 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.23 ug/L	
120-12-7	Anthracene	$oldsymbol{ol}}}}}}}}}}}}}}}}}$		not detected	2000	1.12 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	1.70 ug/L	
206-44-0	Fluoranthene			not detected	300	1.64 ug/L	
92-87-5	Benzidine			not detected	50	4.18 ug/L	
129-00-0	Ругепе			not detected	200	1.25 ug/L	
<u>85-68-7</u>	Butylbenzylphthalate	1		not detected	100	1.05 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	1.19 ug/L	
91-94-1	3,3'-Dichlorobenzidine	1 1		not detected	60	1.75 ug/L	1
218-01-9	Chrysene			not detected	20	1.38 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate	1		not detected	30	1.74 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.25 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.29 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	1.05 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.83 ug/L	
3-70-3	Dibenz(a,h)anthracene			not detected	20	0.64 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.84 ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

#### 1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		Lab Co	de 13461		0CW2M	W33
Project:	100004	Case No.: 5401	Loca	tion: CW2	SI	DG No.:	
Matrix: (soil/w	ater)	WATER		Lab Sample	ID:	5401.07	
Sample wt/vo	1:	1000 (g/ml) ML		Lab File ID:		BNA03940.0	)
Level: (low/m	ed)	LOW		Date Receiv	/ed:	5/8/00	
% Moisture:		decanted: (Y/N)	<u>N</u>	Date Extrac	ted:	5/10/00	
Concentrated	Extract	Volume: <u>1000</u> (uL)	1	Date Analyz	ed:	5/26/00	
Injection Volu	me: <u>1.0</u>	) (uL)	1	Dilution Fac	tor:	1.0	
GPC Cleanup	: (Y/N)	NpH:	_				
Number TICs	found:	1	CONCE (ug/L or	NTRATION ug/Kg)	UNIT UG/L		
CAS NUMBI	ER .	COMPOUND NAME		RT	E\$	T. CONC.	Q
1.		unknown		6.98		13	J

Client:

U.S. Army

Lab. 1D #:

PBLK520

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

5/9/00

Ft. Monmouth, NJ 07703

**Analysis Date:** 

5/11/00

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep.	runnei			<u> </u>	
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochior 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

5401.02

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

5/8/00 5/9/00

Ft. Monmouth, NJ 07703

Analysis Date:

5/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

Field Blank

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1	_	0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		70.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

5401.03

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

5/8/00 5/9/00

Ft. Monmouth, NJ 07703

Analysis Date:

5/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

Dupe

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1	•	2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochior 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

5401.04

DPW, SELFM-PW-EV

Date Rec'd:

5/8/00

Bldg. 173

**Extraction Date:** 

5/9/00

Ft. Monmouth, NJ 07703

Analysis Date:

5/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

00W2MW30

Ext. Meth:

Sep. Funnel

, , , , , , , , , , , , , , , , , , ,		Retention	Regulatory		
Pesticide/PCB	Dilution Factor	Time	Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC .	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	. 1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochior 1248	1		0.50	0.0544	ND
Arochior 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

5401.05

DPW, SELFM-PW-EV

Date Rec'd:

5/8/00

Bldg. 173

Extraction Date:

5/9/00

Ft. Monmouth, NJ 07703

Analysis Date:

5/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Field ID:

00W2MW31

Analyst: Ext. Meth: T. Frankovich Sep. Funnel

Ext. Meth: Sep	. Funnel				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1	- <del></del>	3.00	0.0273	ND.
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochior 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

5401.06

DPW, SELFM-PW-EV

Date Rec'd:

5/8/00

Bldg. 173

**Extraction Date:** 

5/9/00

Ft. Monmouth, NJ 07703

**Analysis Date:** 

5/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix: Analyst: Aqueous

Field ID:

00W2MW32

Ext. Meth:

T. Frankovich Sep. Funnel

Ext. Meth: Sep. Fun	nei				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chiordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochior 1260	i i		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client :

U.S. Army

Lab. ID #:

5401.07

DPW, SELFM-PW-EV

Date Rec'd:

5/8/00

Bldg. 173

Extraction Date:

5/9/00

Ft. Monmouth, NJ 07703

Analysis Date:

5/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix: Analyst: Aqueous

T. Frankovich

Field ID:

00W2MW33

Ext. Meth:

Sep. Funnel

EXL Mett: Sep. Fi			<del></del>		
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0007	ND
beta-BHC	1		0.20	0.0014	ND
gamma-BHC	1		0.20	0.0012	ND
delta-BHC	1		NLE	0.0021	ND
Heptachlor	1		0.40	0.0016	ND
Aldrin	1		0.04	0.0014	ND
Heptachlor Epoxide	1		0.20	0.0008	ND
Endosulfan I	1		0.40	0.0014	ND
4,4'-DDE	1		0.10	0.0014	ND
Dieldrin	1		0.03	0.0011	ND
Endrin	1		2.00	0.0012	ND
Endrin Ketone	1		NLE	0.0012	ND
Endosulfan II	1		0.40	0.0006	ND
4,4'-DDD	1		0.10	0.0012	ND
4,4'-DDT	1		0.10	0.0019	ND
Endosulfan-Sulfate	1		0.40	0.0018	ND
Methoxychlor	1		40.00	0.0022	ND
Alpha-chlordane	1		0.50	0.0007	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.0273	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	11		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND.
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		U.50	0.0732	ND
				<del></del>	

<sup>\*</sup> Higher of PQL's and ground water criteria as per NIAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

#### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

Lab ID #: 5401

DPW, SELFM-PW-EV

Sample Prepared: 06/01/00

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Method Blank

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	06/01/00	15.3	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	ND	8	2.0
Barium	06/01/00	ND	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	ND	4	0.5
Calcium	06/01/00	189	NLE	20.0
Chromium	06/01/00	ND	100	0.5
Cobalt	06/01/00	ND	NLE	0.5
Copper	06/01/00	ND	1000	3.0
Iron	06/01/00	25.4	300	10.0
Lead	06/01/00	ND	10	2.0
Magnesium	06/01/00	25.6	NLE	20.0
Manganese	06/01/00	0.661	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	ND	100	0.5
Potassium	06/01/00	ND	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	43.1	50000	20.0
Thallium	06/05/00	ND	10	1.0
Vanadium	06/01/00	ND	NLE	1.0
Zinc	06/01/00	3.20	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5401.02

Sample Received05/08/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	06/01/00	ND	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	ND	8	2.0
Barium	06/01/00	ND	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	ND	4	0.5
Calcium	06/01/00	ND	NLE	20.0
Chromium	06/01/00	ND	100	0.5
Cobalt	06/01/00	ND	NLE	0.5
Copper	06/01/00	ND	1000	3.0
Iron	06/01/00	ND	300	10.0
Lead	06/01/00	ND	10	2.0
Magnesium	06/01/00	ND	NLE	20.0
Manganese	06/01/00	ND	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	ND	100	0.5
Potassium	06/01/00	ND	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	ND	50000	20.0
Thallium	06/05/00	ND	10	1.0
Vanadium	06/01/00	ND	NLE	1.0
Zinc	06/01/00	ND	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

Lab ID #: 5401.03

DPW, SELFM-PW-EV

Sample Received: 05/08/00

Bldg. 173

Ft. Monmouth, NJ 07703

Sample Matrix: Aqueous

Site:

CW-2

Field ID#: Dupe

Ft. Monmouth, New Jersey

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	06/01/00	133	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	ND	8	2.0
Barium	06/01/00	61.4	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	ND	4	0.5
Calcium	06/01/00	59000	NLE	20.0
Chromium	06/01/00	4.96	100	0.5
Cobalt	06/01/00	ND	NLE	0.5
Copper	06/01/00	101	1000	3.0
Iron	06/01/00	8090	300	10.0
Lead	06/01/00	13.7	10	2.0
Magnesium	06/01/00	4900	NLE	20.0
Manganese	06/01/00	74.9	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	7.58	100	0.5
Potassium	06/01/00	7500	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	25200	50000	20.0
Thallium	06/05/00	ND	10	1.0
Vanadium	06/01/00	3.02	NLE	1.0
Zinc	06/01/00	158	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5401.04

Sample Received: 05/08/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW30

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	06/01/00	105	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	ND	8	2.0
Barium	06/01/00	61.7	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	0.787	4	0.5
Calcium	06/01/00	59800	NLE	20.0
Chromium	06/01/00	7.19	100	0.5
Cobalt	06/01/00	0.822	NLE	0.5
Соррег	06/01/00	327	1000	3.0
Iron	06/01/00	7410	300	10.0
Lead	06/01/00	46.6	10	2.0
Magnesium	06/01/00	4910	NLE	20.0
Manganese	06/01/00	73.1	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	17.6	100	0.5
Potassium	06/01/00	7670	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	24500	50000	20.0
Thallium	06/05/00	ND	10	1.0
Vanadium	06/01/00	3.17	NLE	1.0
Zinc	06/01/00	429	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5401.05

Sample Received: 05/08/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW31

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	06/01/00	ND	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	ND	8	2.0
Barium	06/01/00	305	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	ND	4	0.5
Calcium	06/01/00	52500	NLE	20.0
Chromium	06/01/00	1.57	100	0.5
Cobalt	06/01/00	ND	NLE	0.5
Copper	06/01/00	ND	1000	3.0
<u>Iron</u>	06/01/00	86000	300	10.0
Lead	06/01/00	ND	10	2.0
Magnesium	06/01/00	6650	NLE	20.0
Manganese	06/01/00	343	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	ND	100	0.5
Potassium	06/01/00	10200	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	12600	50000	20.0
Thallium	06/01/00	ND	10	3.0
Vanadium	06/01/00	2.08	NLE	1.0
Zinc	06/01/00	15.2	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

#### U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5401.06

Sample Received: 05/08/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW32

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	06/01/00	51.4	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	ND	8	2.0
Barium	06/01/00	193	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	0.585	4	0.5
Calcium	06/01/00	71800	NLE	20.0
Chromium	06/01/00	2.63	100	0.5
Cobalt	06/01/00	ND	NLE	0.5
Copper	06/01/00	27.9	1000	3.0
Iron	06/01/00	55700	300	10.0
Lead	06/01/00	ND	10	2.0
Magnesium	06/01/00	8300	NLE	20.0
Manganese	06/01/00	382	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	3.00	100	0.5
Potassium	06/01/00	9220	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	15600	50000	20.0
Thallium	06/01/00	ND	10	3.0
Vanadium	06/01/00	6.80	NLE	1.0
Zinc	06/01/00	79.9	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

# Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5401.07

Sample Received: 05/08/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	06/01/00	29.3	200	10.0
Antimony	06/01/00	ND	20	2.0
Arsenic	06/01/00	ND	8	2.0
Barium	06/01/00	121	2000	0.5
Beryllium	06/01/00	ND	20	0.5
Cadmium	06/01/00	ND	4	0.5
Calcium	06/01/00	36100	NLE	20.0
Chromium	06/01/00	0.845	100	0.5
Cobalt	06/01/00	0.770	NLE	0.5
Copper	06/01/00	ND	1000	3.0
Iron	06/01/00	36500	300	10.0
Lead	06/01/00	ND	10	2.0
Magnesium	06/01/00	5870	NLE	20.0
Manganese	06/01/00	242	50	0.5
Mercury	05/15/00	ND	2	0.1
Nickel	06/01/00	0.949	100	0.5
Potassium	06/01/00	7120	NLE	20.0
Selenium	06/01/00	ND	50	3.0
Silver	06/01/00	ND	20	3.0
Sodium	06/01/00	19900	50000	20.0
Thallium	06/01/00	ND	10	3.0
Vanadium	06/01/00	1.78	NLE	1.0
Zinc	06/01/00	6.37	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

	Lab	-Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ugl	Feet	-   -
NJDEP Criteria:		300	50	200	8	10	-	
04/24/1997	FMETL	9100	69	, ND	ND	ND	6.45	V,S,P,M
07/10/1997	FMETL	12590	73	25	5.0	ND	7.05	V,S,P,M
10/22/1997	FMETL	34800	171	175	5.0	5.0	7.60	V,S,P,M
01/08/1998	FMETL	2795	5.0	204	ND	4.0	5.20	V,S,P,M
04/07/1998	FMETL	3504	39.3	196	5.6	ND	6.56	V,S,P,M
07/14/1998	FMETL	10900	57.8	65.7	ND	ND	6.89	V,S,P,M
11/24/1998	FMETL	27500	182	ND	11.5	3.15	7.86	V,S,P,M
02/11/1999	FMETL	11000	100	505	8.3	ND	7.24	V,S,P,M
06/09/1999	FMETL	8210	145	521	6.33	ND	7.21	V,S,P,M
08/04/1999	FMETL	44800	212	304	9.05	6.02	7.43	V,S,P,M
11/03/1999	FMETL	6540	36.3	92.7	6.06	ND	7.02	V,S,P,M
02/15/2000	FMETL	1840	2.69	20.4	ND	ND	7.02	V,S,P,M
05/08/2000	FMETL :	7410	73.1	105	ND	46.6	7.15	V,S,P,M
05/08/2000D	FMETL	8090	74.9	133	ND	13.7	7.15	V,S,P,M

#### SOURCE: 0CW2MW30

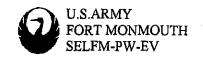
Sampling Dates: 04/24/1997 - 05/08/2000

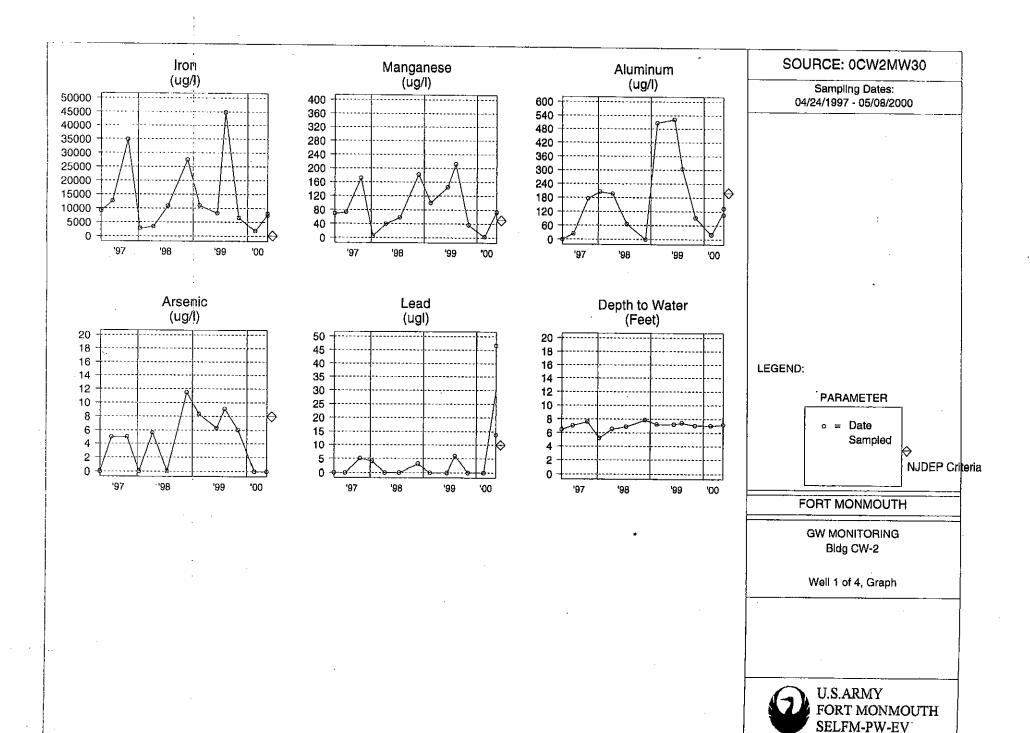
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 1 of 4





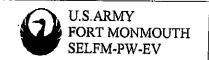
	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water			Notes
Units:		ug/l	ug/l	ug/l	ug/l	ugl	Feet			-
NJDEP Criteria:		300	50	200	8	10	-			-
04/24/1997	FMETL	59900	277	ND	ND	ND	6.38		1	/,S,P,M
07/10/1997	FMETL	11830	267	ND	1.0	ND	7.00			/,S,P,M
10/22/1997	FMETL	52300	243	93	ND	6.0	7.50			/,S,P,M
01/08/1998	FMETL	68450	240	129	ND	25	6.30			/,S,P,M
04/07/1998	FMETL '	115100	266	ND	ND	ND	6.35	·		/,S,P,M
07/14/1998	FMETL	83600	311	390	ND	4.85	6.71			/,S,P,M
11/24/1998	FMETL	72800	322	ND	ND	2.33	7.78			/,S,P,M
02/11/1999	FMETL	71900	316	ND .	ND	ND	7.07			/,S,P,M
06/09/1999	FMETL	104000	326	27.9	ND	ND	7.15			/,S,P,M
08/04/1999	FMETL	77500	347	ND	ND	ND	7.65			/,S,P,M
11/03/1999	FMETL	64600	309	14.9	ND	ND	7.18			/,S,P,M
02/15/2000	FMETL	111000	301	11.7	ND	ND	7.03		<del></del>	/,S,P,M
05/08/2000	FMETL	86000	343	ND	ND	ND	6.96			/,S,P,M

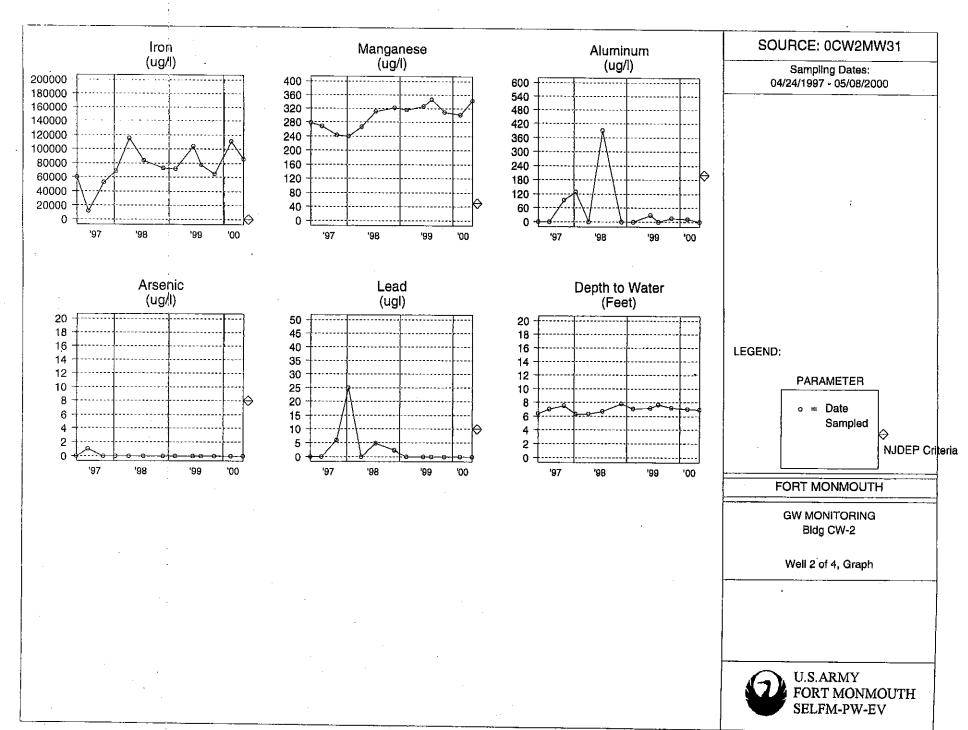
	SOURCE: 0CW2MW31
	Sampling Dates:
	04/24/1997 - 05/08/2000
ОТЕ	ES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 2 of 4





·	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	2-Pentanone 4-hydroxy- 4-methyl	,	Notes
Units:	- '	ug/l	ug/l	ug/l	ug/l	ugl	Feet	ug/l		-
NJDEP Criteria:		300	50	200	8	10	•	NLE		-
04/24/1997	FMETL	18400	125	ND	ND	ND	6.65	440		V,S,P,M
07/10/1997	FMETL	270	181	595	ND	ND	7.20	ND .		V,S,P,M
10/22/1997	FMETL	51100	260	297	ND	7.0	7.70	ND		V,S,P,M
01/08/1998	FMETL	1484	3.7	163	ND	ND	4.50	ND		V,S,P,M
04/07/1998	FMETL	19280	287	ND	ND	ND	6.81	22		V,S,P,M
07/14/1998	FMETL	67500	287	78.1	2.51	3.99	7.06	ND		V,S,P,M
11/24/1998	FMETL	106000	342	166	9.32	4.08	7.94	ND	-	V,S,P,M
02/11/1999	FMETL	4480	7.02	137	ND	ND	7.33	ND		V,S,P,M
06/09/1999	FMETL	64300	310	59.5	ND	ND	7.49	ND		V,S,P,M
08/04/1999	FMETL	76000	369	67.4	ND	ND	7.85	ND		V,S,P,M
11/03/1999	FMETL	11500	27	162	4.09	ND	6.53	ND		V,S,P,M
02/15/2000	FMETL	11300	53.9	95.7	ND	ND	6.54	ND		V,S,P,M
02/15/2000D	FMETL	112000	297	53.1	ND	ND	6.54	ND		V,S,P,M
05/08/2000	FMETL :	55700	382	51.4	ND	ND	7.29	ND		V,S,P,M

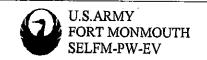
SOURCE: 0CW2MW32	
Sampling Dates:	_
04/24/1997 - 05/08/2000	

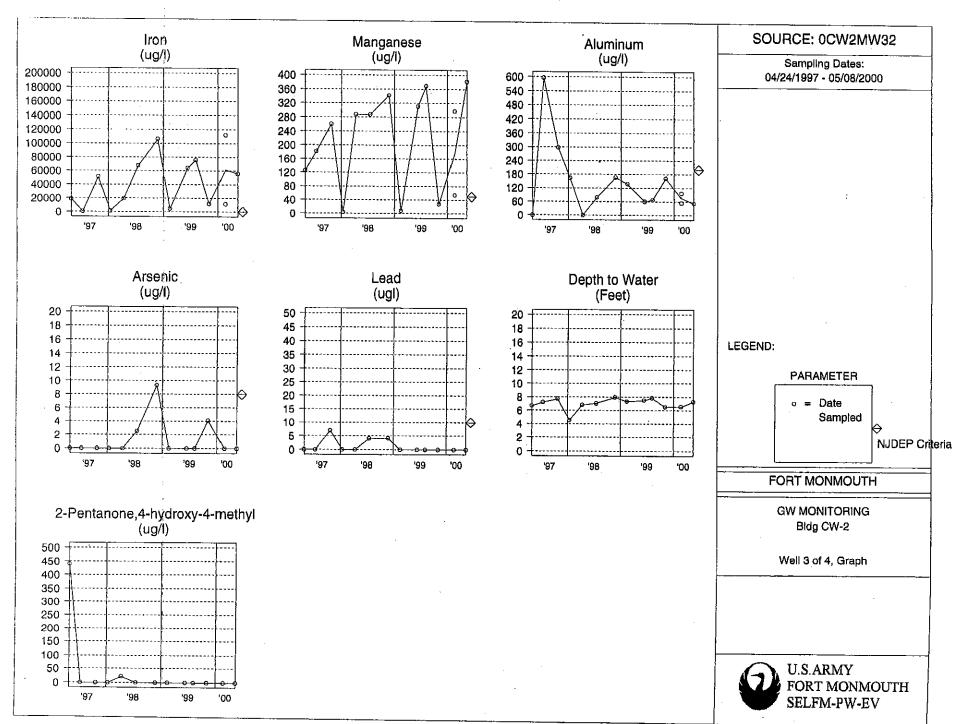
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 3 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water			Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ugl	Feet	 ļ ——		-
NJDEP Criteria:		300	50	200	8	10	-	\		-
04/24/1997	FMETL	88600	424	ND	ND	ND	8.95			V,S,P,M
07/10/1997	FMETL	10260	519	2.1	1.0	ND	9.10			V,S,P,M
10/22/1997	FMETL	26800	151	94	ND	4.0	9.10		-	V,S,P,M
01/08/1998	FMETL:	104700	342	217	6.0	4.0	9.00			V,S,P,M
04/07/1998	FMETL	19780	110	119	3.4	ND	9.50	 T		V,S,P,M
07/14/1998	FMETL	35900	130	411	ND	4.19	9.09			V,S,P,M
11/24/1998	FMETL	25400	87.8	125	ND	ND	9.13			V,S,P,M
02/11/1999	FMETL	11300	81.2	67.8	ND	ND	8.13		T	V,S,P,M
06/09/1999	FMETL	69600	214	336	5.82	ND	9,13			V,S,P,M
08/04/1999	FMETL	35900	149	69	8	3.25	9.15	\	7	V,S,P,M
11/03/1999	FMETL	19500	47.2	52.8	ND	ND	6.14		T	V,S,P,M
02/15/2000	FMETL	54400	201	96.2	2.67	3.77	9.09			V,S,P,M
05/08/2000	FMETL	36500	242	29.3	ND	ND	8.13			V,S,P,M

SOL	IRCE:	0CW2	MW33

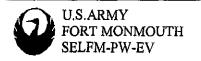
Sampling Dates: 04/24/1997 - 05/08/2000

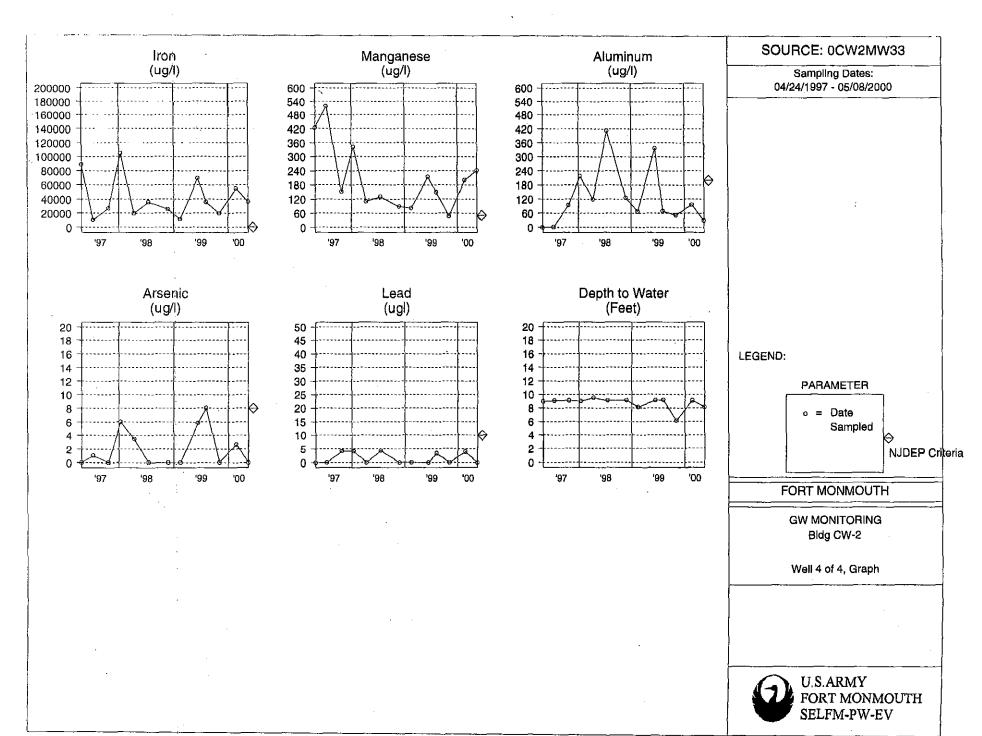
NOTES:

FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 4 of 4





### FORT MONMOUTH ENVIRONMENTAL **TESTING LABORATORY**

#### **DIRECTORATE OF PUBLIC WORKS**

PHONE: (732)532-6224 FAX: (732)532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT **FOR** Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

#### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5591.04	0CW2MW30	29-32594	08/02/00
5591.05	0CW2MW31	29-32595	08/02/00
5591.06	0CW2MW32	29-32596	08/02/00
5591.07	0CW2MW33	29-32597	08/02/00

NJDEP Laboratory Certification # 13461

Daniel Wright/Date:

Laboratory Director

### **METHODOLOGY SUMMARY**

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18 <sup>th</sup> ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
íron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part
	136
	Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608



## Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

#### **Chain of Custody Record**

Customer: J. 4	Project No:	Project No:				Analysis Parameters							Comments:	
Phone #: XX (0.2	23	Location: CWZ Wells				1 2 2 .				Λ — — — — — — — — — — — — — — — — — — —				weeks to
DERA ()OMA (	)Other:		3rd (	arte oc	>	VO + 15	Lh	874/	+				Aend	HCL/HN03/242
Samplers Name / Con	npany: Curey McCo	ormuck TVS Sampl			#	۵	TALMTLS	Pist	BN4+35				2	
Lab Sample I.D.	Sample Location	Date	Time	Туре	bottles	3	1	P	8,				工	Remarks / Preservation Method
559101	Trip	8/2100	0740	AQ	2	<u></u>								
ړه. \	Field Blank		1000		5	v	レ	·	L-		,.,			
.03	Dope				5	-	سسما		-				_	
,04	CX WZ MW30		1116		5	L-	سا	6	1				0.0	29-32594
. 05	OCMS WASI		1109			/	i	in	_				00	29-32595
.06	OCW2 MW32		1/24			1	س	<u>ب</u>	<u></u>				0.0	29-32596
07	OCUIZ MW33	V	1047	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*	<u></u>	<i>L</i>		-				0.0	29-32597
						<u> </u>								
			_											
Relinquished by signatur	Date/Time: 8/11/00 1575	Received by	signature):	W	Relin	quished	by (sig	nature)	:	Date/	Time:	Recei	ved by	(signature):
Relinquished by (signatur	Received by (	Received by (signature): Reline			quished by (signature): Date/Time:			Ī	Received by (signature):					
Report Type: ()Full, ()I	Reduced, Standard, Screen	n / non-certified	l, ()EDD			Rema	rks:		Shu	3 T/	FBI	) w	1 25	62 and so Sm dit.
urnaround time://stanc	dard 3 wks, ()Rush Days,	()ASÄP Ver	balHrs.			Ti	le i	NIA		-				

#### U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: 0CW2MW30 NJDEP ID #: 29-32594 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 08/02/00

WEATHER: Overcast, hot, humid.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.71 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 6.86 ft** DEPTH OF WELL: 17.95 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 11.09 ft (11.09) X .65 X 3 = 21.62

GALLONS OF H2O TO BE PURGED: 22 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 09:40** 

pH 6.55 su

TEMP 23.3 °C

DISSOLVED O2 5.87 ppm

SPECIFIC CONDUCTIVITY 263 us/cm

PURGE END TIME: 11:15

pH 6.50 su

TEMP 22.9 °C

DISSOLVED O2 4.10 ppm

SPECIFIC CONDUCTIVITY 260 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.22 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 22 gal

SAMPLE START TIME: 11:16

pH 6.49 su

TEMP 22.8 °C

DISSOLVED O2 4.07 ppm

SPECIFIC CONDUCTIVITY 259 us/cm

SAMPLE END TIME: 11:23

COMMENTS: Cloudy.

## U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: 0CW2MW31 NJDEP ID #: 29-32595 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 08/02/00

WEATHER: Overcast, hot, humid.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.88 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 6.73 ft** DEPTH OF WELL: 16.91 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 10.18 ft (10.18) X .65 X 3 = 19.85

GALLONS OF H2O TO BE PURGED: 20 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 09:41** 

pH 6.66 su

TEMP 21.3 °C

DISSOLVED O2 5.91 ppm

SPECIFIC CONDUCTIVITY 309 us/cm

**PURGE END TIME: 11:08** 

pH 6.52 su

TEMP 20.9 °C

DISSOLVED O2 4.17 ppm

SPECIFIC CONDUCTIVITY 305 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.63 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 20 gal

**SAMPLE START TIME: 11:09** 

pH 6.51 su

TEMP 20.8 °C

DISSOLVED O2 4.11 ppm

SPECIFIC CONDUCTIVITY 304 us/cm

SAMPLE END TIME: 11:14

COMMENTS: Cloudy, orange.

## U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

LOCATION: CW-2 MW#: 0CW2MW32 NJDEP ID #: 29-32596 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 08/02/00

WEATHER: Overcast, hot, humid.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.38 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 5.93 ft** DEPTH OF WELL: 16.89 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 10.96 ft (10.96) X .65 X 3 = 21.37

GALLONS OF H2O TO BE PURGED: 21 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 09:45** 

pH 6.97 su

TEMP 22.4 °C

DISSOLVED O2 5.99 ppm

SPECIFIC CONDUCTIVITY 359 us/cm

PURGE END TIME: 11:16

pH 6.95 su

TEMP 21.4 °C

DISSOLVED O2 4.01 ppm

SPECIFIC CONDUCTIVITY 356 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.26 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER) TOTAL VOLUME PURGED: 21 gal

**SAMPLE START TIME: 11:24** 

pH 6.94su

TEMP 21.3 °C

DISSOLVED O2 3.97 ppm

SPECIFIC CONDUCTIVITY 356 us/cm

SAMPLE END TIME: 11:28

COMMENTS: Cloudy, DUP. Here.

#### US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEPE # 13461

#### **Definition of Qualifiers**

MDL : Method Detection Limit

J : Compound identified below detection limitB : Compound in both sample and blank

D : Results from dilution of sample

U : Compound searched for but not detected : Compound exceeds calibration limit

Data File

VB007832.D

Sample Name

Vblk234 Vblk234

Operator

Date Acquired

Skelton 11 Aug 2000 10:18 am Field ID

Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	l "		not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1.1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate		·	not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1.2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1 1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	<u> </u>
79-01-6	Trichloroethene	T		not detected	ī	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane	<u> </u>		not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether	<u> </u>		not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1.1.2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	<u> </u>
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	<b> </b>
108-90-7	Chlorobenzene		·	not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	<b></b>
1330-20-7	m+p-Xylenes		·	not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene		•	not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	ļ · · · · · · · · · · · · · · · · · · ·
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.70 ug/L 0.47 ug/L	
541-73-1	1,3-Dichlorobenzene	<del> </del>	<del></del>	not detected	600	0.47 ug/L 0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected		0.55 ug/L 0.57 ug/L	
95-50-1	1,4-Dichlorobenzene	<del>                                     </del>		not detected	75 600	0.57 ug/L 0.64 ug/L	<del> </del>

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

		, , , , , , , ,				V/L11-00	الما
Lab Name:	FMETL			Project: LTM		Vblk23	; <b>4</b>
NJDEP#:	13461	Ca:	se No.: <u>5591</u>	Location: CW2	_ SI	DG No.:	
Matrix: (soil/v	vater)	WATER	_	Lab Sample	ID:	Vblk234	
Sample wt/vo	ol:	5.0	(g/ml) ML	Lab File ID:		VB007832.D	
Level: (low/n	ned)	LOW	_	Date Receiv	ed:	8/2/00	
% Moisture: r	not dec.			Date Analyz	ed:	8/11/00	
GC Column:	RTX50	02. ID: 0.2	25 (mm)	Dilution Fac	tor:	1.0	
Soil Extract V	/olume:	<del></del>	_ (uL)	Soil Aliquot	Volu	me:	(uL)
			_	ONCENTRATION UNI			
Number TICs	found:	0					
CAS NO.		COMPOL	ND NAME	RT	ES	T. CONC.	Q

Data File

VB007843.D

Sample Name

5591.01 Trip Blank

Operator

Date Acquired

Skelton

11 Aug 2000 6:02 pm

Sample Multiplier

Field ID

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide		-	not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	16.40	91330	1.70 ug/L	6	0.30 ug/L	
75-55-6	1.1.1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	T
107-06-2	1.2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene		····	not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	. 0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	$\Box$
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene		:	not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab I	D.
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Lab Name:	FMETL			Project:	LTM		Trip Bla	ank
NJDEP#:	13461	Cas	se No.: 5591	•	n: CW2	S	DG No.:	
Matrix: (soil/	water)	WATER	_	 La	ab Sampl	e ID:	5591.01	
Sample wt/ve	ol:	5.0	(g/ml) ML	La	ab File ID	:	VB007843.D	
Level: (low/r	ned)	LOW	_	Da	ate Rece	ived:	8/2/00	
% Moisture:	not dec.			Da	ate Analy	zed:	8/11/00	
GC Column:	RTX5	02. ID: <u>0.2</u>	25_ (mm)	Di	ilution Fa	ctor:	1.0	
Soil Extract \	/olume:		_ (uL)	S	oil Aliquo	t Volu	ıme:	(uL)
Number TICs	s found:	0		ONCENTRA g/L or ug/Kg		IITS:		
CAS NO.		COMPOU	ND NAME		RT	ES	ST. CONC.	Q

Data File

VB007844.D

Sample Name

5591.02

Operator

Skelton

Field ID

Field Blank

Date Acquired 11 Aug 2000 6:43 pm

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifier
107028	Acrolein			not detected	50	1.85 ug/L	1
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform	16.40	89010	1.76 ug/L	6	0.30 ug/L	
75-55-6	1.1.1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene	1		not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

Data File

VB007845.D

Sample Name

Field ID

5591.03

Operator

Skelton

Date Acquired 11 Aug 2000 7:23 pm

Sample Multiplier

Dupe 1

CAS#	Compound Name	R.Ţ.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein		-	not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	.5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene		<u> </u>	not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane		<u>-</u>	not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone		·	not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	. 1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	ļ
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59_ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1 1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene		<u></u>	not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane		············	not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab	IU.

Lab Name:	FMETL		Project:	LTM		Dupe	<b>;</b>
NJDEP#:	13461	Case No.: 5	5591 Loca	tion: CW2	SE	OG No.:	
Matrix: (soil/v	vater)	WATER	1	Lab Sample	e ID:	5591.03	
Sample wt/vo	ol:	5.0 (g/ml)	ML	Lab File ID:	:	VB007845.D	
Level: (low/n	ned)	LOW	1	Date Recei	ved:	8/2/00	<del></del>
% Moisture: r	not dec.		1	Date Analy:	zed:	8/11/00	
GC Column:	RTX50	02. ID: <u>0.25</u> (mr	n) !	Dilution Fac	ctor:	1.0	<del></del>
Soil Extract V	/olume:	(uL)	:	Soil Aliquot	: Volur	ne:	(uL)
Number TICs	s found:	00	CONCENTR (ug/L or ug/k				
CAS NO.		COMPOUND NAM	IE	RT	ES	T. CONC.	Q

Data File

VB007846.D

Sample Name Field ID

5591.04 0CW2MW30

Operator

Skelton

Date Acquired 11 Aug 2000 8:04 pm

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane	i i. i		not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	. 3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene	1		not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Project:	LTM		UCVYZIVIV	730
NJDEP#:	13461	Case No	ı.: <u>5591</u>	Locatio	n: <u>CW2</u>	_ SE	OG No.:	
Matrix: (soil/v	water)	WATER		La	b Sample	ID:	5591.04	
Sample wt/vo	ol:	5.0 (g/r	ni) ML	La	b File ID:		VB007846.D	
Level: (low/r	ned)	LOW		Da	ate Receiv	/ed:	8/2/00	
% Moisture:	not dec.		_	Da	ate Analyz	ed:	8/11/00	
GC Column:	RTX50	02. ID: 0.25	(mm)	Di	lution Fac	tor:	1.0	
Soil Extract \	/olume:	(ul	-)	Sc	il Aliquot	Volur	ne:	(uL)
Number TICs	s found:	0		ONCENTRA g/L or ug/Kg				
CAS NO.		COMPOUND N	IAME		RT	ES	T. CONC.	Q

Data File

VB007847.D

Sample Name

5591.05

Operator

Skelton

Field ID

0CW2MW31

Date Acquired

11 Aug 2000 8:44 pm

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	11	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Project:	LTM		UCWZIVI	W31
NJDEP#:	13461	Cas	e No.: 5591	Locat	ion: CW2	SI	DG No.:	
Matrix: (soil/v	water)	WATER		L	ab Sample	D:	5591.05	
Sample wt/vo	ol:	5.0	(g/ml) ML	L	.ab File ID:		VB007847.D	<u>_</u>
Level: (low/r	ned)	LOW			Date Receiv	ved:	8/2/00	
% Moisture:	not dec.		<del></del>		Date Analyz	zed:	8/11/00	
GC Column:	RTX50	02. ID: <u>0.2</u>	5 (mm)		Dilution Fac	tor:	1.0	
Soil Extract \	/olume:		_ (uL)	8	Soil Aliquot	Volu	me:	(uL)
				ONCENTR.				
Number TICs	s found:	0	-	ag, E or ag, r	g) <u>-                                   </u>		<del></del>	
CAS NO.		COMPOU	ND NAME		RT	ES	T. CONC.	Q

Data File

VB007848.D

Sample Name Field ID 5591.06 0CW2MW32

Operator

Date Acquired

Skelton

11 Aug 2000 9:25 pm

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nie	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	_5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	_
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane		_	not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	T
56-23-5	Carbon Tetrachloride		_	not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	· 0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	1
110-75-8	2-Chloroethyl vinyl ether		-	not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NLE = No Limit Established

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Project:	LTM		UCW2IVI	W32
NJDEP#:	13461 Case No.: 5591			Locat	Location: CW2 SDG No.:			
Matrix: (soil/	water)	WATER		· [	ab Sample	e ID:	5591.06	<del></del>
Sample wt/ve	ol:	5.0	(g/ml) ML		_ab File ID:		VB007848.D	
Level: (low/r	med)	LOW		[	Date Recei	ved:	8/2/00	
% Moisture:	not dec.			1	Date Analyz	zed:	8/11/00	<del></del>
GC Column:	RTX5	02. ID: <u>0.2</u>	5 (mm)	{	Dilution Fac	ctor:	1.0	<del></del>
Soil Extract \	Volume:		_ (uL)	5	Soil Aliquot	Volu	me:	(uL)
			(	CONCENTR	ATION UN	ITS:		
Number TIC:	s found:	0	<b>-</b>	(ug/L or ug/K	(g) <u>UG</u>	/L	<del></del>	
CAS NO.		COMPOU	ND NAME		RT	ES	T. CONC.	Q

Data File Operator

VB007849.D

Skelton

Sample Name Field ID

5591.07 0CW2MW33

Date Acquired 11 Aug 2000 10:06 pm

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane		•	not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	. 4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane		1	not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

#### 1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.

Lab Name: FMETL		Project: LTM	0CW2MW33
NJDEP#: 13461	Case No.: 5591	Location: CW2 SD	G No.:
Matrix: (soil/water)	WATER	Lab Sample ID: 5	591.07
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID: _V	/B007849.D
Level: (low/med)	LOW	Date Received: 8	/2/00
% Moisture: not dec.		Date Analyzed: 8	/11/00
GC Column: RTX50	02. ID: <u>0.25</u> (mm)	Dilution Factor: 1	.0
Soil Extract Volume:	(uL)	Soil Aliquot Volum	e: (uL)
Number TICs found:		ONCENTRATION UNITS: g/L or ug/Kg) UG/L	
CAS NO.	COMPOUND NAME	RT EST	CONC. Q

### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name BNA04331.D

Sample Name

Sblk404

Operator

Bhaskar

Misc Info

Sblk404 A 000807

Date Acquired

8-Aug-00

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE		ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	
62-53-3	Aniline			not detected	NLE		ug/L	
108-95-2	Phenol		,,	not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40		ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600		ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene	I		not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected_	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid	<u> </u>		not detected	NLE	1.15	ug/L	·
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol	1 1	· · · · · · · · · · · · · · · · · · ·	not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene	[		not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline	1 1		not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene	<del>                                     </del>		not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene	$\perp$		not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline	1		not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene	<u> </u>		not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04331.D

Sample Name

Sblk404

Operator

Bhaskar

Misc Info

Sblk404 A 000807

Date Acquired

8-Aug-00

Sample Multiplier

Q1 Q#	Name	n T	D	D16	Regulatory Level (ug/L)*	MDL		
CAS#	Name	R.T.	Response	Result	<del></del>			Qualifiers
121-14-2	2,4-Dinitrotoluene	+-		not detected	10		ug/L	<del> </del>
84-66-2	Diethylphthalate			not detected	5000		ug/L	
86-73-7	Fluorene			not detected	300		ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE		ug/L	
100-01-6	4-Nitroaniline	<b>-</b>		not detected	NLE		ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene	ļ		not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene	$\sqcap$	_	not detected	10		ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20		ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20		ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE		ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

Page 2 of 2

#### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NIDEP Certification #13461

Data File Name

BNA04316.D

Sample Name

5591.02

Operator

100-02-7

4-Nitrophenol

Bhaskar

Misc Info

Field Blank

Date Acquired 7-

7-Aug-00

Sample Multiplier

Regulatory Level (ug/L)\* CAS# Name R.T. Response Result MDL **Oualifiers** 1.54 ug/L 110-86-1 Pyridine not detected NLE 0.69 ug/L 62-75-9 N-nitroso-dimethylamine not detected 20 62-53-3 Aniline not detected NLE 1.85 ug/L 108-95-2 4000 Phenol not detected 0.52 ug/L 111-44-4 bis(2-Chloroethyl)ether not detected 10 0.63 ug/L 95-57-8 40 0.61 ug/L 2-Chlorophenol not detected 541-73-1 600 0.62 ug/L 1,3-Dichlorobenzene not detected 106-46-7 1,4-Dichlorobenzene not detected 75 0.58 ug/L 100-51-6 Benzyl alcohol not detected NLE 0.62 ug/L 95-50-1 1,2-Dichlorobenzene not detected 600 0.65 ug/L 95-48-7 NLE 0.59 ug/L 2-Methylphenol not detected 108-60-1 300 0.57 ug/L bis(2-chloroisopropyl)ether not detected 106-44-5 4-Methylphenol not detected NLE 0.48 ug/L 621-64-7 20 0.64 ug/L n-Nitroso-di-n-propylamine not detected 0.34 ug/L 67-72-1 Hexachloroethane not detected 10 98-95-3 10 0.51 ug/L Nitrobenzene not detected ug/L 78-59-1 100 0.45 Isophorone not detected NLE 88-75-5 2-Nitrophenol not detected 0.52 ug/L 105-67-9 100 0.93 ug/L 2,4-Dimethylphenol not detected NLE 0.48 ug/L 111-91-1 bis(2-Chloroethoxy)methane not detected 120-83-2 2,4-Dichlorophenol not detected 20 0.39 ug/L 65-85-0 NLE 1.15 ug/L Benzoic Acid not detected 120-82-1 1,2,4-Trichlorobenzene not detected 9 0.54 ug/L 91-20-3 Naphthalene not detected NLE 0.72 ug/L NLE 1.78 ug/L 106-47-8 4-Chloroaniline not detected 87-68-3 1 ug/L Hexachlorobutadiene not detected 0.43 NLE 0.71 ug/L 59-50-7 4-Chloro-3-methylphenol not detected 91-57-6 2-Methylnaphthalene not detected NLE 0.55 ug/L 77-47-4 Hexachlorocyclopentadiene not detected 50 0.76 ug/L 0.59 ug/L 88-06-2 2,4,6-Trichlorophenol not detected 20 ug/L 95-95-4 2,4,5-Trichlorophenol not detected 700 0.96 91-58-7 NLE 0.53 ug/L 2-Chloronaphthalene not detected 88-74-4 2-Nitroaniline NLE 1.04 ug/L not detected 131-11-3 Dimethylphthalate not detected 7000 1.04 ug/L ug/L 208-96-8 Acenaphthylene NLE 0.70 not detected 606-20-2 2,6-Dinitrotoluene not detected NLE 0.92 ug/L 99-09-2 NLE 1.93 ug/L 3-Nitroaniline not detected 83-32-9 Acenaphthene not detected 400 0.62 ug/L 51-28-5 40 1.84 ug/L 2,4-Dinitrophenol not detected ug/L 132-64-9 Dibenzofuran NLE 0.73 not detected

1.41 ug/L

NLE

not detected

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04316.D

Sample Name

5591.02

Operator

Bhaskar

Misc Info

Field Blank

Date Acquired

7-Aug-00

Sample Multiplier

Regulatory Level

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	<u> </u>
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene		<u> </u>	not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$		not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

#### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BNA04317.D

Sample Name

5591.03

Operator

Bhaskar

Misc Info

Dupe

1

Date Acquired 7-Aug-00

Sample Multiplier

Regulatory Level (ug/L)\* CAS# Name R.T. Response Result MDL Qualifiers 1.54 ug/L 110-86-1 Pyridine not detected NLE 0.69 ug/L 62-75-9 N-nitroso-dimethylamine not detected 20 NLE 1.85 ug/L 62-53-3 Aniline not detected Phenol 0.52 ug/L 108-95-2 not detected 4000 bis(2-Chloroethyl)ether 111-44-4 10 0.63 ug/L not detected 0.61 ug/L 95-57-8 2-Chlorophenol not detected 40 1,3-Dichlorobenzene not detected 600 0.62 ug/L 541-73-1 1,4-Dichlorobenzene 75 0.58 ug/L 106-46-7 not detected 100-51-6 NLE 0.62 ug/L Benzyl alcohol not detected 95-50-1 1,2-Dichlorobenzene not detected 600 0.65 ug/L 95-48-7 2-Methylphenol not detected NLE 0.59 ug/L 0.57 ug/L 108-60-1 bis(2-chloroisopropyl)ether not detected 300 NLE ug/L 106-44-5 4-Methylphenol 0.48 not detected 621-64-7 n-Nitroso-di-n-propylamine 20 0.64 ug/L not detected 67-72-1 Hexachloroethane not detected 10 0.34 ug/L 98-95-3 Nitrobenzene not detected 10 0.51 ug/L 100 0.45 ug/L 78-59-1 Isophorone not detected NLE 88-75-5 0.52 ug/L 2-Nitrophenol not detected 0.93 105-67-9 2,4-Dimethylphenol not detected 100 ug/L 111-91-1 bis(2-Chloroethoxy)methane not detected NLE 0.48 ug/L 20 0.39 ug/L 120-83-2 2,4-Dichlorophenol not detected NLE 1.15 ug/L 65-85-0 Benzoic Acid not detected 9 0.54 ug/L 1,2,4-Trichlorobenzene 120-82-1 not detected NLE 91-20-3 Naphthalene not detected 0.72 ug/L 4-Chloroaniline NLE 1.78 ug/L 106-47-8 not detected 0.43 ug/L 87-68-3 Hexachlorobutadiene not detected NLE 0.71 ug/L 59-50-7 4-Chloro-3-methylphenol not detected 2-Methylnaphthalene NLE 0.55 ug/L 91-57-6 not detected 77-47-4 Hexachlorocyclopentadiene 50 0.76 ug/L not detected 0.59 ug/L 88-06-2 2,4,6-Trichlorophenol not detected 20 700 0.96 ug/L 95-95-4 2,4,5-Trichlorophenol not detected 91-58-7 2-Chloronaphthalene not detected NLE 0.53 ug/L 88-74-4 NLE 1.04 ug/L 2-Nitroaniline not detected 1.04 ug/L 131-11-3 Dimethylphthalate not detected 7000 0.70 ug/L 208-96-8 NLE Acenaphthylene not detected 0.92 ug/L 606-20-2 2,6-Dinitrotoluene not detected NLE NLE 1.93 ug/L 99-09-2 3-Nitroaniline not detected 83-32-9 Acenaphthene 400 0.62 ug/L not detected 51-28-5 2,4-Dinitrophenol not detected 40 1.84 ug/L NLE 0.73 ug/L 132-64-9 Dibenzofuran not detected 100-02-7 4-Nitrophenol not detected NLE 1.41 ug/L

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04317.D

Sample Name

5591.03

Operator

Bhaskar

Misc Info

Dupe

Date Acquired

7-Aug-00

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2.4-Dinitrotoluene		I COSPOSIDO	not detected	10	1.41 ug	
84-66-2	Diethylphthalate			not detected	5000	1.54 ug	/L
86-73-7	Fluorene			not detected	300	0.98 ug	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86 ug	
100-01-6	4-Nitroaniline			not detected	NLE	2.96 ug	_
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10 ug	/L
86-30-6	n-Nitrosodiphenylamine		•	not detected	20	1.44 ug	/L
103-33-3	Azobenzene			not detected	NLE	1.00 ug	/L
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28 ug	/L
118-74-1	Hexachlorobenzene			not detected	10	1.08 ug	/L
87-86-5	Pentachlorophenol			not detected	1	1.74 ug	
85-01-8	Phenanthrene			not detected	NLE	1.73 ug	/L
120-12-7	Anthracene			not detected	2000	1.85 ug	/L
84-74-2	Di-n-butylphthalate			not detected	900	2.49 ug	/L
206-44-0	Fluoranthene			not detected	300	1.48 ug	
92-87-5	Benzidine			not detected	50	2.15 ug	r l
129-00-0	Pyrene			not detected	200	1.53 ug	/L
85-68-7	Butylbenzylphthalate			not detected	100	1.24 ug	/L
56-55-3	Benzo[a]anthracene			not detected	10	2.68 ug	/L
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60 ug	/L
218-01-9	Chrysene	<u> </u>		not detected	20	1.14 ug	L_
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34 ug	/L
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug	/L
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32 ug	r.
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15 ug	/L
50-32-8	Benzo[a]pyrene			not detected	20	2.43 ug	'L
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24 ug	ı 📗
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94 ug	ı.
191-24-2	Benzo[g,h,i]perylene	1 7		not detected	NLE	2.04 ug	ı.

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory

### **NJDEP Certification #13461**

Data File Name BNA04318.D

Sample Name

5591.04

Operator

Bhaskar

Misc Info

0CW2MW30

Date Acquired

7-Aug-00

Sample Multiplier

Regulatory

C 4 C#	Name	ים מי	Dagwayaa	Dogul4	Regulatory Level (ug/L)*	MDI		0 117
CAS#	Name Pyridine	R.T.	Response	Result	T	MDL	ug/L	Qualifiers
110-86-1 62-75-9	N-nitroso-dimethylamine	+	<del>- · · · · · · · · · · · · · · · · · · ·</del>	not detected	NLE 20		ug/L	<del></del>
		+-i	<u> </u>	not detected	20			
62-53-3	Aniline	+	-	not detected	NLE	1.85		
108-95-2	Phenol Live Club at 10 at	+		not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether	+		not detected	10		ug/L	
95-57-8	2-Chlorophenol	+-		not detected	40		ug/L	<del></del>
541-73-1	1,3-Dichlorobenzene	+		not detected	600	0.62		
106-46-7	1,4-Dichlorobenzene	<del>-</del>		not detected	75	0.58		<u> </u>
100-51-6	Benzyl alcohol	+		not detected	NLE		ug/L	
95-50-1	1,2-Dichlorobenzene	+		not detected	600		ug/L	
95-48-7	2-Methylphenol			not detected	NLE		ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine	1		not detected	20	0.64	ug/L	•
67-72-1	Hexachloroethane	+-1		not_detected	10	0.34	ug/L	
98-95-3	Nitrobenzene	4		not detected	10	0.51	ug/L	
78-59-1	Isophorone	1	<u> </u>	not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol		<del></del>	not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	_ 20	0.39	ug/L	
65-85-0	Benzoic Acid	$\perp$		not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	<u>0.5</u> 4	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline	$\perp$		not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	. 1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04		
208-96-8	Acenaphthylene			not detected	NLE	0.70		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92		
99-09-2	3-Nitroaniline	$\top$		not detected	NLE	1.93		
83-32-9	Acenaphthene			not detected	400	0.62		
51-28-5	2,4-Dinitrophenol			not detected	40	1.84		
132-64-9	Dibenzofuran	1		not detected	NLE	0.73		
100-02-7	4-Nitrophenol	<del>                                     </del>		not detected	NLE	1.41		

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04318.D

Sample Name

5591.04

Operator

Bhaskar

Misc Info

0CW2MW30

Date Acquired

7-Aug-00

Sample Multiplier

					Regulatory Level (ug/L)*			
CAS#	Name	R.T.	Response	Result	(ug/L)	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether		·	not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine		_	not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

#### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory

#### **NJDEP Certification #13461**

Data File Name

BNA04319.D

Sample Name

5591.05

1

Operator

Bhaskar

Misc Info

0CW2MW31

Date Acquired

7-Aug-00

Sample Multiplier

Regulatory Level (ug/L)\* CAS# Name R.T. Response Result MDL **Qualifiers** 1.54 ug/L 110-86-1 Pyridine not detected NLE 0.69 ug/L 62-75-9 N-nitroso-dimethylamine not detected 20 NLE 1.85 ug/L 62-53-3 Aniline not detected Phenol 4000 0.52 ug/L 108-95-2 not detected bis(2-Chloroethyl)ether not detected 10 0.63 ug/L 111-44-4 95-57-8 2-Chlorophenol not detected 40 0.61 ug/L 600 0.62 ug/L 1,3-Dichlorobenzene not detected 541-73-1 75 0.58 ug/L 106-46-7 1,4-Dichlorobenzene not detected 100-51-6 NLE 0.62 ug/L Benzyl alcohol not detected 95-50-1 1,2-Dichlorobenzene not detected 600 0.65 ug/L 95-48-7 2-Methylphenol not detected NLE 0.59 ug/L 108-60-1 bis(2-chloroisopropyl)ether not detected 300 0.57 ug/L NLE 0.48 ug/L 106-44-5 4-Methylphenol not detected 621-64-7 n-Nitroso-di-n-propylamine not detected 20 0.64 ug/L 67-72-1 Hexachloroethane not detected 10 0.34 ug/L 98-95-3 Nitrobenzene not detected 10 0.51 ug/L 100 0,45 ug/L 78-59-1 Isophorone not detected NLE 0.52 ug/L 88-75-5 2-Nitrophenol not detected 105-67-9 2,4-Dimethylphenol not detected 100 0.93 ug/L 111-91-1 bis(2-Chloroethoxy)methane not detected NLE 0.48 ug/L 20 0.39 ug/L 120-83-2 2,4-Dichlorophenol not detected NLE 1.15 ug/L 65-85-0 Benzoic Acid not detected 0.54 ug/L 9 120-82-1 1,2,4-Trichlorobenzene not detected 91-20-3 Naphthalene not detected NLE 0.72 ug/L NLE 1.78 ug/L 106-47-8 4-Chloroaniline not detected 0.43 ug/L 87-68-3 Hexachlorobutadiene not detected NLE 0.71 ug/L 59-50-7 4-Chloro-3-methylphenol not detected 2-Methylnaphthalene NLE 0.55 91-57-6 not detected ug/L 77-47-4 Hexachlorocyclopentadiene 50 0.76 ug/L not detected 0.59 ug/L 88-06-2 2,4,6-Trichlorophenol not detected 20 0.96 ug/L 95-95-4 2,4,5-Trichlorophenol not detected 700 91-58-7 2-Chloronaphthalene not detected NLE 0.53 ug/L NLE 1.04 88-74-4 2-Nitroaniline ug/L not detected 131-11-3 Dimethylphthalate not detected 7000 1.04 ug/L 208-96-8 NLE 0.70 ug/L Acenaphthylene not detected 606-20-2 2,6-Dinitrotoluene not detected NLE 0.92 ug/L 99-09-2 3-Nitroaniline 1.93 ug/L not detected NLE 83-32-9 Acenaphthene 400 0.62 ug/L not detected 51-28-5 2,4-Dinitrophenol not detected 40 1.84 ug/L 0.73 132-64-9 Dibenzofuran NLE ug/L not detected 100-02-7 4-Nitrophenol not detected **NLE** 1.41 ug/L

#### Semi-Volatile Analysis Report Page 2

Data File Name BNA04319.D

Date Acquired

Operator

Bhaskar

7-Aug-00

Sample Name

5591.05

Misc Info

0CW2MW31

Sample Multiplier

Regulatory

CAS#	Name	R.T.	Response .	Result	Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine	$\perp$		not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol	1.		not detected	. 1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
<u> 117-81-7</u>	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	<u> </u>
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory

**NJDEP Certification #13461** 

Data File Name BNA04320.D

Sample Name

5591.06

1

Operator

Bhaskar

Misc Info

0CW2MW32

Date Acquired

7-Aug-00

Sample Multiplier

					Regulatory Level			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not_detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	<u> </u>
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid .			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene	$\perp$		not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene	1		not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not_detected	NLE	0.53	ug/L	<u></u>
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate	$\bot$		not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene	$\perp$		not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline	41		not_detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not defected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73	ug/L	
100-02-7	4-Nitrophenol			not detected	NLE		ug/L	

#### Semi-Volatile Analysis Report Page 2

Response

R.T.

Data File Name

BNA04320.D

2,4-Dinitrotoluene

4-Chlorophenyl-phenylether

4,6-Dinitro-2-methylphenol

4-Bromophenyl-phenylether

n-Nitrosodiphenylamine

Hexachlorobenzene

Pentachlorophenol

Di-n-butylphthalate

Butylbenzylphthalate

3,3'-Dichlorobenzidine

bis(2-Ethylhexyl)phthalate

Benzo[a]anthracene

Di-n-octylphthalate

Benzo[b]fluoranthene

Benzo[k]fluoranthene

Indeno[1,2,3-cd]pyrene

Dibenz[a,h]anthracene

Benzo[g,h,i]perylene

Benzo[a]pyrene

Phenanthrene

Anthracene

Fluoranthene

Benzidine

Chrysene

Pyrene

Diethylphthalate

4-Nitroaniline

Azobenzene

Fluorene

Sample Name

5591.06

1

Result

Operator

CAS#

121-14-2

84-66-2

86-73-7

7005-72-3

100-01-6

534-52-1

86-30-6

103-33-3

101-55-3

118-74-1

87-86-5

85-01-8

120-12-7

84-74-2

206-44-0

92-87-5

129-00-0

85-68-7

56-55-3

91-94-1

218-01-9

117-81-7

117-84-0

205-99-2

207-08-9

50-32-8

193-39-5

53-70-3

191-24-2

Bhaskar

Misc Info

0CW2MW32

Regulatory

Date Acquired

7-Aug-00

Sample Multiplier

esult	Level (ug/L)*	MDL		Oualifiers
not detected	10	1.41	ug/L	
not detected	5000		ug/L	
not detected	300	0.98	ug/L	
not detected	NLE	0.86	ug/L	
not detected	NLE	2.96	ug/L	
not detected	NLE	2.10	ug/L	
not detected	20	1.44	ug/L	
not detected	NLE	1.00	ug/L	
not detected	NLE	1.28	ug/L	
not detected	10	1.08	ug/L	
not detected	1	1.74	ug/L	
not detected	NLE	1.73	ug/L	
not detected	2000	1.85	ug/L	
not detected	900	2.49	ug/L	
not detected	300	1.48	ug/L	
not detected	50	2.15	ug/L	
not detected	200	1.53	ug/L	
not detected	100	1.24	ug/L	
not detected	10	2.68	ug/L	
not detected	60	1.60	ug/L	
not detected	20	1.14	ug/L	

1.34 ug/L

1.32 ug/L

1.15 ug/L

2.43 ug/L

2.24 ug/L

2.04 ug/L

1.94 ug/L

1.44 ug/L

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

not detected

not detected

not detected

not detected

not detected

not detected

not detected

not detected

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

30

100

10

2

20

20

20

NLE

Page 2 of 2

#### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory N.IDEP Certification #13461

Data File Name

BNA04321.D

Sample Name

5591.07

Operator

100-02-7

4-Nitrophenol

Bhaskar

Misc Info

0CW2MW33

Date Acquired

7-Aug-00

Sample Multiplier

Regulatory Level (ug/L)\* CAS# MDL Name R.T. Response Result Qualifiers 110-86-1 Pyridine NLE 1.54 ug/L not detected 62-75-9 20 N-nitroso-dimethylamine 0.69 ug/L not detected 62-53-3 Aniline NLE ug/L 1.85 not detected 108-95-2 Phenol not detected 4000 0.52 ug/L 111-44-4 bis(2-Chloroethyl)ether 10 0.63 ug/L not detected 95-57-8 2-Chlorophenol 40 not detected 0.61 ug/L 541-73-1 1,3-Dichlorobenzene 600 0.62 ug/L not detected 106-46-7 75 0.58 ug/L 1,4-Dichlorobenzene not detected 100-51-6 Benzyl alcohol not detected NLE 0.62 ug/L 95-50-1 1,2-Dichlorobenzene 600 0.65 ug/L not detected 2-Methylphenol 0.59 ug/L 95-48-7 NLE not detected 108-60-1 300 0.57 ug/L bis(2-chloroisopropyl)ether not detected 106-44-5 NLE 0.48 ug/L 4-Methylphenol not detected 621-64-7 n-Nitroso-di-n-propylamine not detected 20 0.64 ug/L 67-72-1 Hexachloroethane not detected 10 0.34 ug/L 10 0.51 ug/L 98-95-3 Nitrobenzene not detected 78-59-1 Isophorone not detected 100 0.45 ug/L 88-75-5 NLE 0.52 ug/L 2-Nitrophenol not detected 105-67-9 100 0.93 2,4-Dimethylphenol not detected ug/L NLE 111-91-1 bis(2-Chloroethoxy)methane not detected 0.48 ug/L 2,4-Dichlorophenol 120-83-2 20 0.39 ug/L not detected NLE 65-85-0 Benzoic Acid not detected 1.15 ug/L 120-82-1 1,2,4-Trichlorobenzene not detected 9 0.54 ug/L ug/L 91-20-3 NLE 0.72 Naphthalene not detected 106-47-8 4-Chloroaniline not detected NLE 1.78 ug/L 87-68-3 1 Hexachlorobutadiene 0.43 ug/L not detected 59-50-7 NLE 4-Chloro-3-methylphenol not detected 0.71 ug/L 91-57-6 2-Methylnaphthalene NLE 0.55 ug/L not detected 77-47-4 50 0.76 Hexachlorocyclopentadiene not detected ug/L 88-06-2 2,4,6-Trichlorophenol not detected 20 0.59 ug/L 95-95-4 0.96 ug/L 700 2,4,5-Trichlorophenol not detected 0.53 ug/L 91-58-7 2-Chloronaphthalene not detected **NLE** 88-74-4 NLE 2-Nitroaniline 1.04 ug/L not detected 131-11-3 Dimethylphthalate 7000 1.04 ug/L not detected 208-96-8 NLE 0.70 ug/L Acenaphthylene not detected 606-20-2 2,6-Dinitrotoluene NLE 0.92 not detected ug/L 99-09-2 3-Nitroaniline not detected NLE 1.93 ug/L 83-32-9 400 0.62 ug/L Acenaphthene not detected 51-28-5 2,4-Dinitrophenol not detected 40 1.84 ug/L 132-64-9 NLE Dibenzofuran 0.73 ug/L not detected

1.41 ug/L

NLE

not detected

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04321.D

Sample Name

5591.07

Operator

Bhaskar

Misc Info

0CW2MW33

Date Acquired

7-Aug-00

Sample Multiplier

Regulatory Level

CAS#	Name	Name R.T. Response Result		Result	Level (ug/L)*	MDL	MDL		
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L		
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L		
86-73-7	Fluorene			not detected	300	0.98	ug/L		
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L		
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L		
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L		
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L		
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L		
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L		
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L		
<u>87-86-5</u>	Pentachlorophenol			not detected	1	1.74	ug/L		
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L		
120-12-7	Anthracene			not detected	2000	1.85	ug/L		
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L		
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	·	
92-87-5	Benzidine			not detected	50	2.15	ug/L		
129-00-0	Pyrene			not detected	200	1.53	ug/L	····	
85-68-7	Butylbenzylphthalate	_		not detected	100	1.24	ug/L	·	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L		
218-01-9	Chrysene			not detected	20	1.14	ug/L		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L		
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L		
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L		
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L		
50-32-8	Benzo[a]pyrene			not detected	20	2,43	ug/L		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L		
53-70-3	Dibenz[a,h]anthracene			not detected	_20	1.94	ug/L		
191-24-2	Benzofg.h.ilperylene			not detected	NLE	2.04	ug/L		

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

Page 2 of 2

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Field Id:

		IENIA	IIVELY	DENTIF	ובט	COMPO	2טאט		0111.404
Lab Name:	FMETL				L	ab Code	13461		Sblk404
Project:	LTM	Ca	ase No.:	5591		Location	n: <u>CW2</u>	_ si	DG No.:
Matrix: (soil/v	water)	WATER	_			La	b Sample	D:	Sblk404
Sample wt/vo	ol:	1000	_ (g/ml)	ML		La	b File ID:		BNA04331.D
_evel: (low/r	ned)	LOW				Da	ite Recei	/ed:	8/2/00
% Moisture:		ded	canted: (`	Y/N) _	Ν	Da	ite Extrac	ted:	8/7/00
Concentrated	d Extract	Volume:	1000	(uL)		Da	te Analyz	zed:	8/8/00
njection Volu	ume: <u>1.</u> 0	0 (uL)				Dil	ution Fac	tor:	1.0
GPC Cleanu	p: (Y/N)	N	pH:						
					C	ONCENT	RATION	רואט	ΓS:
Number TICs	s found:	0			(u	g/L or ug	/Kg)	UG/L	<u>-</u>

RT

EST. CONC.

Q

**COMPOUND NAME** 

**CAS NUMBER** 

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Names	CRACTI		lab Ca	da 40404		Field Bl	lank
Lab Name:	FMETL			de <u>13461</u>			<del></del> -
Project:	LTM	Case No.: <u>5591</u>	Loca	tion: CW2	_ SD	G No.:	
Matrix: (soil/	water)	WATER	ĺ	Lab Sample	ID: 5	5591.02	
Sample wt/v	ol:	1000 (g/ml) ML		Lab File ID:	<u> </u>	3NA04316.D	
Level: (low/r	med)	LOW	1	Date Receiv	ed: 8	3/2/00	
% Moisture:		decanted: (Y/N)	N I	Date Extract	ed: 8	3/7/00	
Concentrate	d Extract	Volume: 1000 (uL)	1	Date Analyz	ed: 8	3/7/00	<u>.</u>
Injection Vol	ume: <u>1.0</u>	<u>)</u> (uL)	1	Dilution Fact	or: 1	1.0	
GPC Cleanu	p: (Y/N)	NpH:					
			CONCE	NTRATION	UNIT	S:	
Number TIC:	s found:	0	(ug/L or	ug/Kg)	UG/L		
CAS NUME	BER	COMPOUND NAME		RT	EST	Г. CONC.	Q

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Г	_		_

Field Id:

						D	_ !
Lab Name:	FMETL	-	Lab C	ode <u>13461</u>		Dup	e 
Project:	LTM	Case No.: 5	591 Loc	ation: <u>CW2</u>	SD	G No.:	
Matrix: (soil/	water)	WATER		Lab Sample	ID: <u>5</u>	591.03	
Sample wt/v	ol:	1000 (g/ml) M	ML	Lab File ID:	E	3NA04317.D	)
Level: (low/r	med)	LOW		Date Receiv	ed: <u>8</u>	/2/00	
% Moisture:		decanted: (Y/	N) <u>N</u>	Date Extract	ed: 8	2/7/00	
Concentrate	d Extract	Volume: 1000 (u	ıL)	Date Analyz	ed: <u>8</u>	/7/00	
Injection Vol	ume: <u>.1</u> .	.0 (uL)		Dilution Fact	or: <u>1</u>	.0	
GPC Cleanu	ıp: (Y/N)	NpH:					
			CONC	ENTRATION	UNITS	3:	
Number TIC	s found:	1	(ug/L o	r ug/Kg)	UG/L		
CAS NUME	3ER	COMPOUND NAMI	E .	RT	EST	. CONC.	Q
4 00040	E 00 0	Onwalastana		14.00			18.1

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field Id:

Lab Name:	FMETL			L	ab Cod	e 13461		0CW2	MW30
Project:	LTM	Case No	o.: <u>5591</u>		Locati	on: CW2	S	DG No.:	
Matrix: (soil/	water)	WATER			L	ab Sampi	e ID:	5591.04	
Sample wt/ve	ol:	1000 (g/r	nl) ML		L	ab File ID	:	BNA04318	.D
Level: (low/r	ned)	LOW			D	ate Rece	ived:	8/2/00	
% Moisture:		decanted	: (Y/N) _	N	_ D	ate Extra	cted:	8/7/00	
Concentrate	d Extract	Volume: 1000	(uL)		D	ate Analy	zed:	8/7/00	
Injection Vol	ume: <u>1</u> .	0 (uL)			D	ilution Fa	ctor:	1.0	
GPC Cleanu	p: (Y/N)	NpH:							
Number TICs	s found:	1		_	ONCEN	TRATION g/Kg)	UNI UG/		
CAS NUME	BER	COMPOUND N	NAME			RT	ES	ST. CONC.	Q
1		unknown				33.04		28	J

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field Id:

29

JN

Lab Name:	FMETI	<del>2</del>	Lab Cod	de 13461		0CW2M	W31
Project:	LTM	Case No.: <u>55</u>	91 Locat	ion: CW2	SD	G No.:	
Matrix: (soil/	water)	WATER	j	_ab Sample	ID: 5	5591.05	
Sample wt/v	ol:	1000 (g/ml) M	<u>L</u>	_ab File ID:	E	3NA04319.D	<u> </u>
Level: (low/r	med)	LOW	1	Date Receiv	ed: 8	3/2/00	
% Moisture:		decanted: (Y/N	i) <u>N</u> [	Date Extrac	ted: 8	3/7/00	
Concentrate	d Extrac	t Volume: 1000 (ul	_) [	Date Analyz	ed: 8	3/7/00	
Injection Vol	ume: <u>1</u>	.0 (uL)	Ī	Dilution Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	NpH:	- <del></del>				
			CONCE	NTRATION	UNIT	S:	
Number TIC:	s found:	3	(ug/L or t	ug/Kg)	UG/L	<del> </del>	
CAS NUME	BER	COMPOUND NAME		RT	EST	. CONC.	Q
1.		unknown		6.89		4	J
2. 00010	5-60-2	Caprolactam		14.20		5	JN

33.04

9-Hexadecenoic acid, 9-octadece

3. 022393-98-2

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

0CV	V2MW3	32
		_

Field Id:

Lab Name:	FMETL			·	Lab Cod	de <u>13461</u>		OCW2M	W32
Project:	LTM	Cas	se No.: 5591		Locat	ion: CW2	_ s	DG No.:	
Matrix: (soil/v	water)	WATER	_		Ŀ	ab Sample	ID:	5591.06	
Sample wt/vo	ol:	1000	(g/ml) ML		L	ab File ID:		BNA04320.D	)
Level: (low/r	ned)	LOW	_		[	Date Receiv	/ed:	8/2/00	<u>-</u> -
% Moisture:		deca	anted: (Y/N)	N		Date Extrac	ted:	8/7/00	
Concentrated	d Extract	Volume: 1	000 (uL)		[	Date Analyz	ed:	8/7/00	
Injection Volu	ume: <u>1.0</u>	(uL)			[	Dilution Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	. N	pH:	_					
Nombou TIO	- <b>f</b> a			_		NTRATION			
Number TICs	s tound:	2		(1	ug/L or u	ug/Kg)	UG/	<u>L</u> ·	ſ <del></del> -
CAS NUME	BER	COMPOU	IND NAME			RT	ES	ST. CONC.	Q
1 4		unknown				6 00	l		l I

000105-60-2

Caprolactam

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Fiel	d Id:	

Lab Name:	FMETL				Lab Co	de 13461		0CW2N	1W33
Project:	LTM	Ca	se No.: 5591		Loca	tion: CW2	_ SI	DG No.:	
Matrix: (soil/	water)	WATER	_			Lab Sample	ID:	5591.07	·
Sample wt/ve	ol:	1000	(g/ml) ML			Lab File ID:		BNA04321.	)
Level: (low/r	med)	LOW	<del></del>			Date Receiv	ed:	8/2/00	<u>.</u>
% Moisture:	_	dec	anted: (Y/N)	N		Date Extrac	ted:	8/7/00	
Concentrated	d Extract	: Volume:	1000 (uL)			Date Analyz	ed:	8/7/00	
Injection Volu	ume: 1	.0 (uL)				Dilution Fac	tor:	1.0	<del></del>
GPC Cleanu	p: (Y/N)	<u>N</u>	pH:	_					
				C	ONCE	NTRATION	UNI	ΓS:	
Number TICs	s found:	3	<del></del> _	(	ug/L or	ug/Kg)	UG/I	<u>L</u>	
CAS NUME	BER	COMPOL	JND NAME			RT	ES	T. CONC.	Q
1		unknown				6.80		5	

14.21

33.05

2. 000105-60-2

3. 003687-45-4

Caprolactam

9-Octadecenoic acid (Z)-, 9-octad

JN

JN

Client:

U.S. Army

Lab. ID#:

PBLK559

DPW, SELFM-PW-EV

Date Rec'd:

**Extraction Date:** 

8/8/00

Bldg. 173 Ft. Monmouth, NJ 07703

**Analysis Date:** 

8/11/00

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1	•	0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1 .		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID # :

5591.02

DPW, SELFM-PW-EV

Date Rec'd:

8/2/00

Bldg. 173

**Extraction Date:** 

8/8/00

Ft. Monmouth, NJ 07703

**Analysis Date:** 

8/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

T. Frankovich

Field ID:

Field Blank

Analyst:
Ext. Meth:

Sep. Funnel

Ext. Meth: Sep.	Funnel				<b></b>
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	. 1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

5591.03

DPW, SELFM-PW-EV

Date Rec'd:

8/2/00

Bldg. 173

**Extraction Date:** 

8/8/00

Ft. Monmouth, NJ 07703

Analysis Date:

8/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

7 11 2 WC113

Analyst:

T. Frankovich

Field ID:

Dupe

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1	_	0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

**Lab. ID #:** 

5591.04

DPW, SELFM-PW-EV

Date Rec'd:

8/2/00

Bldg. 173

**Extraction Date:** 

8/8/00

Ft. Monmouth, NJ 07703

**Analysis Date:** 

8/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Field ID:

0CW2MW30

Analyst:

T. Frankovich Sen Funnel

Ext. Meth: Sep. Funnel						
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)	
alpha-BHC	1		0.02	0.0011	ND	
beta-BHC	1		0.20	0.0050	ND	
gamma-BHC	1		0.20	0.0013	ND	
delta-BHC	1		NLE	0.0016	ND	
Heptachlor	1		0.40	0.0035	ND	
Aldrin	1		0.04	0.0026	ND	
Heptachlor Epoxide	1		0.20	0.0020	ND	
Endosulfan I	1		0.40	0.0016	ND	
4,4'-DDE	1		0.10	0.0021	ND	
Dieldrin	1		0.03	0.0020	ND	
Endrin	1		2.00	0.0032	ND	
Endrin Ketone	1		NLE	0.0026	ND	
Endosulfan II	1		0.40	0.0022	ND	
4,4'-DDD	1		0.10	0.0020	ND	
4,4'-DDT	1		0.10	0.0052	ND	
Endosulfan-Sulfate	1	_	0.40	0.0026	ND	
Alpha-chlordane	1		0.50	0.0036	ND	
Gamma-chlordane	1		0.50	0.0007	ND	
Toxaphene	1		3.00	0.1517	ND	
Arochlor 1016	1		0.50	0.0683	ND	
Arochlor 1221	1		0.50	0.0666	ND	
Arochlor 1232	1		0.50	0.0648	ND	
Arochlor 1242	1		0.50	0.0485	ND	
Arochlor 1248	1		0.50	0.0544	ND	
Arochlor 1254	1		0.50	0.0608	ND	
Arochlor 1260	1		0.50	0.0732	ND	

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

5591.05

DPW, SELFM-PW-EV

Date Rec'd:

8/2/00

Bldg. 173

**Extraction Date:** 

8/8/00

Ft. Monmouth, NJ 07703

**Analysis Date:** 

8/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

0CW2MW31

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	_1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

5591.06

DPW, SELFM-PW-EV

Date Rec'd:

8/2/00

Bldg. 173

**Extraction Date:** 

8/8/00

Ft. Monmouth, NJ 07703

**Analysis Date:** 

8/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

0CW2MW32

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1	1	0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1	-	0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

5591.07

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

8/2/00 8/8/00

Ft. Monmouth, NJ 07703

**Analysis Date:** 

8/11/00

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Field ID:

0CW2MW33

Analyst: Ext. Meth: T. Frankovich Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1	·	0.02	0.0011	ND
beta-BHC	1	_	0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1 .		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

## U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

Lab ID #: 5591

DPW, SELFM-PW-EV

Sample Prepared: 08/30/00

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

Field ID#: Method Blank

Ft. Monmouth, New Jersey

CW-2

Method of Digestion: E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/30/00	ND	200	10.0
Antimony	08/30/00	3.86	20	2.0
Arsenic	08/30/00	ND	8	2.0
Barium	08/30/00	ND	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	ND	NLE	20.0
Chromium	08/30/00	ND	100	0.5
Cobalt	08/30/00	ND	NLE	0.5
Copper	08/30/00	ND	1000	2.0
Iron	08/30/00	ND	300	2.0
Lead	08/30/00	ND	10	1.0
Magnesium	08/30/00	ND	NLE	10.0
Manganese	08/30/00	ND	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	ND	100	1.0
Potassium	08/30/00	ND	NLE	40.0
Selenium	08/30/00	ND	50	3.0
Silver	08/30/00	ND	20	1.0
Sodium	08/30/00	109	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	ND	NLE	0.5
Zinc	08/30/00	8.85	5000	1.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

### U.S. Army, Fort Monmouth Environmental Laboratory **N.IDEP Certification # 13461**

Lab ID #: 5591.02

Sample Received: 08/02/00

Field ID#: Field Blank

Sample Matrix: Aqueous

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

CW-2

Site:

Ft. Monmouth, New Jersey

Method of Analysis:

Method of Digestion: E.P.A SW-846, Method 3015A

Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/30/00	ND	200	10.0
Antimony	08/30/00	ND	20	2.0
Arsenic	08/30/00	ND	8	2.0
Barium	08/30/00	0.687	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	ND	NLE	20.0
Chromium	08/30/00	ND	100	0.5
Cobalt	08/30/00	ND	NLE	0.5
Copper	08/30/00	ND	1000	2.0
Iron	08/30/00	ND	300	2.0
Lead	08/30/00	ND	10	1.0
Magnesium	08/30/00	ND	NLE	10.0
Manganese	08/30/00	ND	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	ND	100	1.0
Potassium	08/30/00	53.4	NLE	40.0
Selenium	08/30/00	ND	50	3.0
Silver	08/30/00	ND	20	1.0
Sodium	08/30/00	ND	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	ND	NLE	0.5
Zinc	08/30/00	ND_	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

Lab ID #: 5591.03

DPW, SELFM-PW-EV

Sample Received: 08/02/00

Bldg. 173

Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

Site:

CW-2

Field ID#: Dupe

Ft. Monmouth, New Jersey

Method of Digestion: E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/30/00	28.1	200	10.0
Antimony	08/30/00	4.47	20	2.0
Arsenic	08/30/00	ND	8	2.0
Barium	08/30/00	48.2	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	114000	NLE	20.0
Chromium	08/30/00	2.36	100	0.5
Cobalt	08/30/00	0.583	NLE	0.5
Copper	08/30/00	224	1000	2.0
Iron	08/30/00	4130	300	2.0
Lead	08/30/00	38.3	10	1.0
Magnesium	08/30/00	10900	NLE	10.0
Manganese	08/30/00	7.99	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	10.4	100	1.0
Potassium	08/30/00	5430	NLE	40.0
Selenium	08/30/00	5.90	50	3.0
Silver	08/30/00	ND	20	1.0
Sodium	08/30/00	17900	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	3.04	NLE	0.5
Zinc	08/30/00	326	5000	1.0

### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5591.04

Sample Received: 08/02/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW30

Method of Digestion: E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/30/00	ND	200	10.0
Antimony	08/30/00	4.50	20	2.0
Arsenic	08/30/00	ND	8	2.0
Barium	08/30/00	60.2	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	68100	NLE	20.0
Chromium	08/30/00	1.50	100	0.5
Cobalt	08/30/00	ND	NLE	0.5
Copper	08/30/00	72.1	1000	2.0
Iron	08/30/00	2040	300	2.0
Lead	08/30/00	21.8	10	1.0
Magnesium	08/30/00	4670	NLE	10.0
Manganese	08/30/00	15.2	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	6.54	100	1.0
Potassium	08/30/00	11300	NLE	40.0
Selenium	08/30/00	ND	50	3.0
Silver	08/30/00	ND	20	1.0
Sodium	08/30/00	7280	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	1.63	NLE	0.5
Zinc	08/30/00	164	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Sample Received: 08/02/00

Sample Matrix: Aqueous

Lab ID #: 5591.05

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW31

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/30/00	14.7	200	10.0
Antimony	08/30/00	5.66	20	2.0
Arsenic	08/30/00	ND	8	2.0
Barium	08/30/00	326	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	53700	NLE	20.0
Chromium	08/30/00	1.37	100	0.5
Cobalt	08/30/00	ND	NLE	0.5
Copper	08/30/00	ND	1000	2.0
Iron	08/30/00	68900	300	2.0
Lead	08/30/00	2.44	10	1.0
Magnesium	08/30/00	6610	NLE	10.0
Manganese	08/30/00	294	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	ND	100	1.0
Potassium	08/30/00	10400	NLE	40.0
Selenium	08/30/00	ND	50	3.0
Silver	08/30/00	ND	20	1.0
Sodium	08/30/00	8200	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	0.655	NLE	0.5
Zinc	08/30/00	13.0	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

.S. Army Lab ID #: 5591.06

DPW, SELFM-PW-EV

Sample Received: 08/02/00 Sample Matrix: Aqueous

Bldg. 173

Ft. Monmouth, NJ 07703

Field ID#: 0CW2MW32

Site: CW-2 Ft. Monmouth, New Jersey

Method of Digestion: E.P.A SW-846, Method 3015A

Method of Analysis: Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/30/00	21.8	200	10.0
Antimony	08/30/00	5.58	20	2.0
Arsenic	08/30/00	4.14	8	2.0
Barium	08/30/00	51.3	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	114000	NLE	20.0
Chromium	08/30/00	1.90	100	0.5
Cobalt	08/30/00	0.583	NLE	0.5
Copper	08/30/00	ND	1000	2.0
Iron	08/30/00	4700	300	2.0
Lead	08/30/00	2.96	10	1.0
Magnesium	08/30/00	10600	NLE	10.0
Manganese	08/30/00	8.74	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	2.71	100	1.0
Potassium	08/30/00	5340	NLE	40.0
Selenium	08/30/00	ND	50	3.0
Silver	08/30/00	ND	20	1.0
Sodium	08/30/00	17900	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	3.25	NLE	0.5
Zinc	08/30/00	29.6	5000	1.0

## U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

Lab ID #: 5591.07

DPW, SELFM-PW-EV

Sample Received: 08/02/00

Bldg. 173

Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

Site:

CW-2

Field ID#: 0CW2MW33

Ft. Monmouth, New Jersey

Method of Digestion: E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	08/30/00	38.2	200	10.0
Antimony	08/30/00	4.04	20	2.0
Arsenic	08/30/00	ND	8	2.0
Barium	08/30/00	83.6	2000	0.5
Beryllium	08/30/00	ND	20	0.5
Cadmium	08/30/00	ND	4	0.5
Calcium	08/30/00	23900	NLE	20.0
Chromium	08/30/00	ND	100	0.5
Cobalt	08/30/00	ND	NLE	0.5
Copper	08/30/00	ND	1000	2.0
Iron	08/30/00	13400	300	2.0
Lead	08/30/00	1.50	10	1.0
Magnesium	08/30/00	2660	NLE	10.0
Manganese	08/30/00	81.4	50	0.5
Mercury	08/15/00	ND	2	0.1
Nickel	08/30/00	ND	100	1.0
Potassium	08/30/00	6080	NLE	40.0
Selenium	08/30/00	ND	50	3.0
Silver	08/30/00	ND	20	1.0
Sodium	08/30/00	5230	50000	20.0
Thallium	08/30/00	ND	10	2.0
Vanadium	08/30/00	0.821	NLE	0.5
Zinc	08/30/00	16.4	5000	1.0

	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:		ug/l	ug/l	ug/i	ug/l	ugl	Feet	-
NJDEP Criteria:	-	300	50	200	8	10	-	-
04/24/1997	FMETL	9100	69	ND	ND	ND	6.45	V,S,P,M
07/10/1997	FMETL	12590	73	25	5.0	ND	7.05	V,S,P,M
10/22/1997	FMETL	34800	171	175	5.0	5.0	7.60	V,S,P,M
01/08/1998	FMETL	2795	5.0	204	ND	4.0	5.20	V,S,P,M
04/07/1998	FMETL	3504	39.3	196	5.6	ND	6.56	V,S,P,M
07/14/1998	FMETL	10900	57.8	65.7	ND	ND	6.89	V,S,P,M
11/24/1998	FMETL	27500	182	ND	11.5	3.15	7.86	V,S,P,M
02/11/1999	FMETL	11000	100	505	8.3	ND	7.24	V,S,P,M
06/09/1999	FMETL	8210	145	521	6.33	ND	7.21	V,S,P,M
08/04/1999	FMETL	44800	212	304	9.05	6.02	7.43	V,S,P,M
11/03/1999	FMETL	6540	36.3	92.7	6.06	ND	7.02	V,S,P,M
02/15/2000	FMETL	1840	2.69	20.4	ND	ND	7.02	V,S,P,M
05/08/2000	FMETL	7410	73.1	105	ND	46.6	7.15	V,S,P,M
05/08/2000D	FMETL	8090	74.9	133	ND	13.7	7.15	V,S,P,M
08/02/2000	FMETL	2040	15.2	ND	ND	21.8	6.86	V,S,P,M

SOURCE: 0CW2MW30

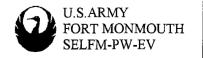
Sampling Dates: 04/24/1997 - 08/02/2000

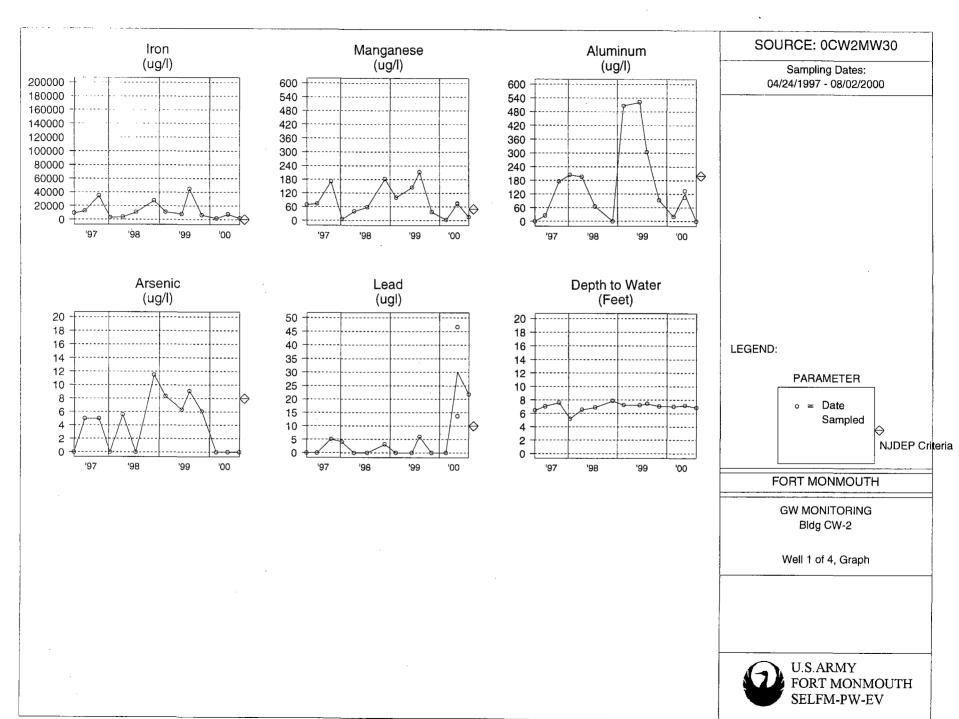
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 1 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	•	ug/l	ug/l	ug/l	ug/l	ugi	Feet	-
NJDEP Criteria:	-	300	50	200	8	10	-	
04/24/1997	FMETL	59900	277	ND	ND	ND	6.38	V,S,P,M
07/10/1997	FMETL	11830	267	ND	1.0	ND	7.00	V,S,P,M
10/22/1997	FMETL	52300	243	93	ND	6.0	7.50	V,S,P,M
01/08/1998	FMETL	68450	240	129	ND	25	6.30	V,S,P,M
04/07/1998	FMETL	115100	266	ND	ND	ND	6.35	V,S,P,M
07/14/1998	FMETL	83600	311	390	ND	4.85	6.71	V,S,P,M
11/24/1998	FMETL	72800	322	ND	ND	2.33	7.78	V,S,P,M
02/11/1999	FMETL	71900	316	ND	ND	ND	7.07	V,S,P,M
06/09/1999	FMETL	104000	326	27.9	ND	ND	7.15	V,S,P,M
08/04/1999	FMETL	77500	347	ND	ND	ND	7.65	V,S,P,M
11/03/1999	FMETL	64600	309	14.9	20	ND	7.18	V,S,P,M
02/15/2000	FMETL	111000	301	11.7	ND	ND	7.03	V,S,P,M
05/08/2000	FMETL	86000	343	ND	ND	ND	6.96	V,S,P,M
08/02/2000	FMETL	68900	294	14.7	ND	2.44	6.73	V,S,P,M

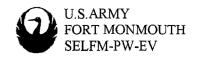
Sampling Dates: 04/24/1997 - 08/02/2000

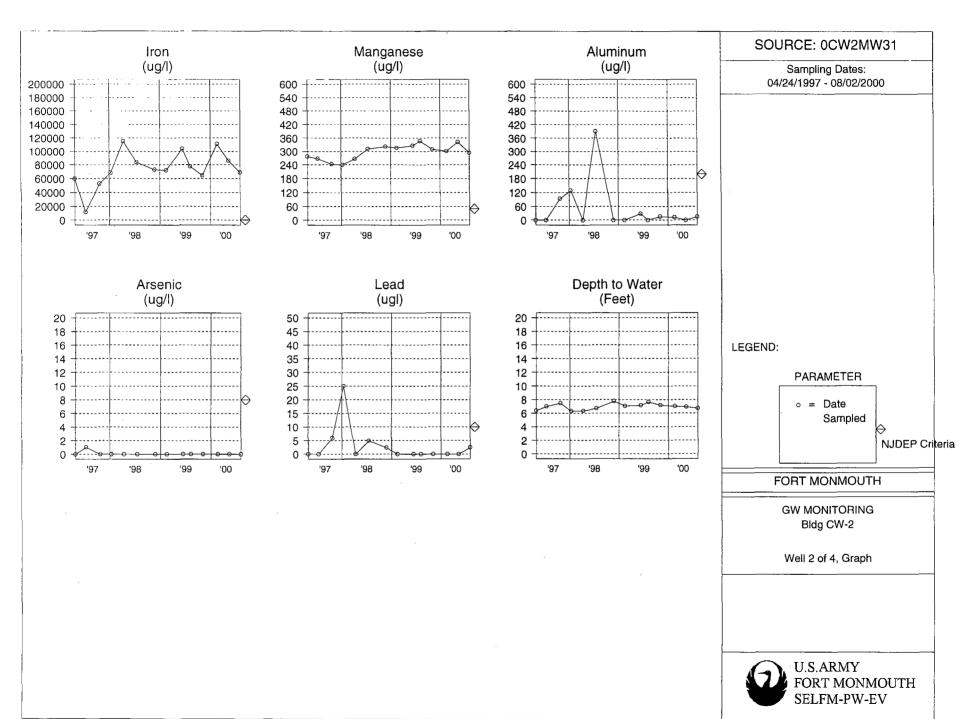
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 2 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ugl	Feet	 -
NJDEP Criteria:	-	300	50	200	8	10	-	 -
04/24/1997	FMETL	18400	125	ND	ND	ND	6.65	V,S,P,M
07/10/1997	FMETL	270	181	595	ND	ND	7.20	V,S,P,M
10/22/1997	FMETL	51100	260	297	ND	7.0	7.70	V,S,P,M
01/08/1998	FMETL	1484	3.7	163	ND	ND	4.50	V,S,P,M
04/07/1998	FMETL	19280	287	ND	ND	ND	6.81	V,S,P,M
07/14/1998	FMETL	67500	287	78.1	2.51	3.99	7.06	V,S,P,M
11/24/1998	FMETL	106000	342	166	9.32	4.08	7.94	V,S,P,M
02/11/1999	FMETL	4480	7.02	137	ND	ND	7.33	V,S,P,M
06/09/1999	FMETL	64300	310	59.5	ND	ND	7.49	V,S,P,M
08/04/1999	FMETL	76000	369	67.4	ND	ND	7.85	V,S,P,M
11/03/1999	FMETL	11500	27	162	4.09	ND	6.53	V,S,P,M
02/15/2000	FMETL	11300	53.9	95.7	ND	ND	6.54	V,S,P,M
02/15/2000D	FMETL	112000	297	53.1	ND	ND	6.54	V,S,P,M
05/08/2000	FMETL	55700	382	51.4	ND	ND	7.29	V,S,P,M
08/02/2000	FMETL	4700	8.74	21.8	4.14	2.96	5.93	V,S,P,M
08/02/2000D	FMETL	4130	7.99	28.1	ND	38.3	5.93	V,S,P,M

SOURCE	0CW2MW32
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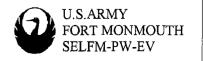
Sampling Dates: 04/24/1997 - 08/02/2000

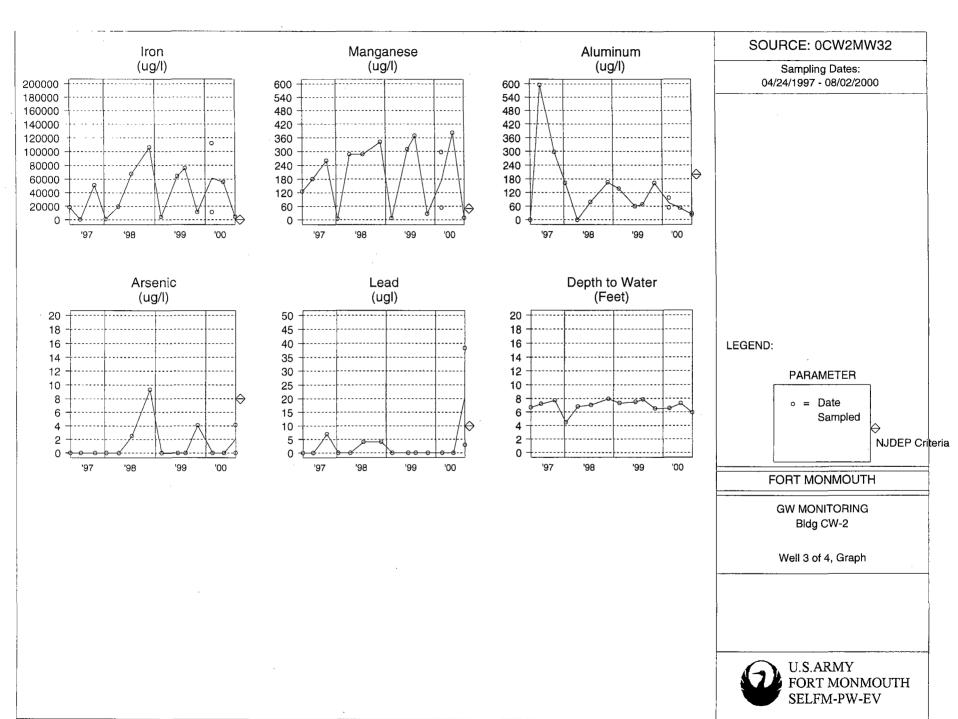
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 3 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:		ug/l	ug/l	ug/l	ug/l	ugl	Feet	 -
NJDEP Criteria:	-	300	50	200	8	10	-	-
04/24/1997	FMETL	88600	424	ND	ND	ND	8.95	V,S,P,N
07/10/1997	FMETL	10260	519	2.1	1.0	ND	9.10	V,S,P,N
10/22/1997	FMETL	26800	151	94	ND	4.0	9.10	V,S,P,N
01/08/1998	FMETL	104700	342	217	6.0	4.0	9.00	V,S,P,N
04/07/1998	FMETL	19780	110	119	3.4	ND	9.50	V,S,P,N
07/14/1998	FMETL	35900	130	411	ND	4.19	9.09	V,S,P,N
11/24/1998	FMETL	25400	87.8	125	ND	ND	9.13	V,S,P,N
02/11/1999	FMETL	11300	81.2	67.8	ND	ND	8.13	V,S,P,N
06/09/1999	FMETL	69600	214	336	5.82	ND	9.13	V,S,P,N
08/04/1999	FMETL	35900	149	69	8	3.25	9.15	V,S,P,N
11/03/1999	FMETL	19500	47.2	52.8	ND	ND	6.14	V,S,P,N
02/15/2000	FMETL	54400	201	96.2	2.67	3.77	9.09	V,S,P,N
05/08/2000	FMETL	36500	242	29.3	ND	ND	8.13	V,S,P,N
08/02/2000	FMETL	13400	81.4	38.2	ND	1.50	9.12	V,S,P,N

#### SOURCE: 0CW2MW33

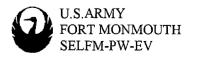
Sampling Dates: 04/24/1997 - 08/02/2000

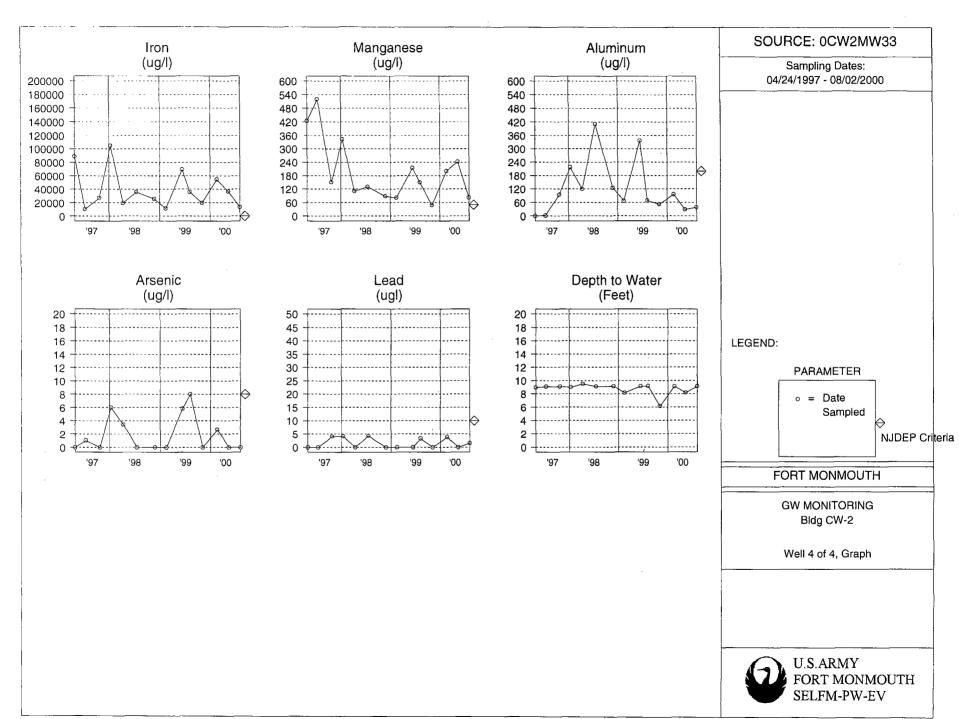
NOTES:

#### FORT MONMOUTH

GW MONITORING Bldg CW-2

Well 4 of 4





# FORT MONMOUTH ENVIRONMENTAL

# **TESTING LABORATORY**

**DIRECTORATE OF PUBLIC WORKS** 

PHONE: (732)532-6224 FAX: (732)532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT : DERA/ Long Term Monitoring
Low Flow/Round I

#### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5660.02	0CW2MW30	29-32594	08/24/00
5657.02	0CW2MW31	29-32595	08/23/00
5657.03	0CW2MW32	29-32596	08/23/00
5657.04	0CW2MW33	29-32597	08/23/00

NJDEP Laboratory Certification # 13461

Daniel Wright/Date:

Laboratory Director

# METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18 <sup>th</sup> ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136
	Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608

# **SAMPLING**



# Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil

NJDEP Certification #13461

**Chain of Custody Record** 

Custome	er: J. Falc	LON			Project No:	Low Flow	,				Ana	lysis I	aram	eters			Comments:
Pbone #: 🌖	26623				Location:C	MD			744								
(/)DERA	( )OMA (	)Other	'						Ę								
Samplers	Name / Con	npanys	VT- 2C	2			Sample	#	I s								
Lab San	nple I.D.	Sa	mple Locat	ion	Date	Time	Туре	bottles									Remarks / Preservation Method
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Relinquishe	d by (signatur	e):	Date/1	Time:	Received by	(signature):		Relin	quished	by (sig	nature):		Date/	Time:	Receiv	ved by (	signature):
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# Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil

NJDEP Certification #13461

**Chain of Custody Record** 

Customer: 5.	Fallow	Project No:	Low	Flou	ر			Anal	ysis F	aramo	eters				
	4223	Location: (	c wa			į									
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Samplers Name / Con	npany:			Sample	#	1									
Lab Sample I.D.	Sample Location	Date	Time	Туре	bottles	7								Remarks / Preservation Method	
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Turnaround time: () San	dard 3 wks, ()Rush Days,	()ASAP Verl	oalHrs.	·											

## U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

Sonde Calibration:

Temp.: N/A

pH: 7.00/10.00/4.00 Buffers

**LOCATION: CW2** 

MW#: 0CW2MW30

NJDEP ID#29-32594

**NJDEP CERT # 13461** 

SAMPLING CONTRACTOR: TVS

SAMPLER: David Sharpe

DATE: 08/24/00

WEATHER: Cloudy.

TIDE: N/A

WELL CONDITION: Good

LNAPLs: N

DNAPLs: N

ELEV. OF INNER CASING SURVEY MARK: N/A ft

**INNER CASING DIA: 4 INCH** 

**DEPTH TO WATER: 7.1 ft** 

Before Purge Start: 7.1 ft Previous Day: 7.1 ft After Sampling: 8.3 ft

DEPTH OF WELL: 17.95 ft

DEPTH TO TOP OF SCREEN: N/A ft

DEPTH OF PUMP/TUBE INTAKE: 15.5 ft

TUBING: Food grade Polyethylene 1/4"/Silicon

Hnu Calibration: Span 2.8 w/ 100 ppm Isobutylene

Sp Cond/Cond: 147.0 \( \mu\) ohms/cm solution (KCl)

DO: % Humidity 760mm (Barometric Pressure)

HEIGHT OF WATER: ft

() X .65 / X3 =

(.65 for 4", .163 for 2")

GALLONS OF H2O TO BE PURGED: Gal

PURGE METHOD:(FLOW at >100 TO <500 ml/Min): #EBISTO 2" REDIFLO 2 GRUNDPHOS SUBMERSIBLE PUMP Gal/Min. (ml to gal.; ml(.0002642)=gal)

Purged at 220mL/Min or

PURGE RATE: gpm

Hnu READING: 0 ppm (Well) Hnu READING: 0 ppm (Well Cap)

**PURGE START TIME: 11:15** 

pH 6.58 su

TEMP 21.17 °C

DISSOLVED O<sub>2</sub> 0.00 mg/L

SPECIFIC CONDUCTIVITY 642.4 ms/cm

**PURGE END TIME: 11:55** 

pH 6.58 su

TEMP 20.53 °C

DISSOLVED O<sub>2</sub> 0.00 mg/L

SPECIFIC CONDUCTIVITY 651.5 ms/cm

DEPTH TO H2O AFTER PURGE AND SAMPLING: 8.3 ft

(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 11:51

pH 6.58 su

TEMP 20.77 °C

DISSOLVED O<sub>2</sub> 0.00 mg/L

SPECIFIC CONDUCTIVITY 653.2 ms/cm

SAMPLE END TIME: 11:54 ANALYTES: TAL Metals

COMMENTS:

## **FIELD READINGS**

MW:0CW2MW30

NJDEP ID#: 29-32594

DATE: 8/24/00

Tîme (Min.)	pН	Temp. (°C)	Cond.	Specific Cond.	Dissolved O <sub>2</sub> (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
11:15	6.58	21.17	598.4	642.4	0.00	4.8	7.15	220	
11:20	6.57	20.38	582	638.3	0.00	4.7	7.15	220	
11:25	6.58	20.7	586.7	639,3	0.00	3.84	7.15	220	
11:30	6.58	20.57	587.2	641.4	0.00	3.18	7.15	220	
11:35	6.58	20.59	589.4	643.6	0.00	3.01	7.15	220	
11:40	6.58	20.51	591.4	647	0.00	3.22	8.0	220	
11:45	6.58	20.53	595.9	651.5	0.00	3.12	8.0	220	
11:50	6.58	20.77	600.5	653.2	0.00	3.12	8.3	220	

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Énje	and the section of the section of	Tajiko Yaja 1845	Jack Sale - milmins
1115	4.80	7.15	220
1120	4.70	7.15	220
1125	3.84	7.15	220
1130	3.18	7.15	220
1135	3.01	7.15	220
1140	3.22	8	220
1145	3.12	8	220
1150	3.12	8.3	220

·

# Cw2mw30 CW2MW30 Low Flow Data for Temp., Sp. Cond., Cond., D.O., pH -- Data Report --

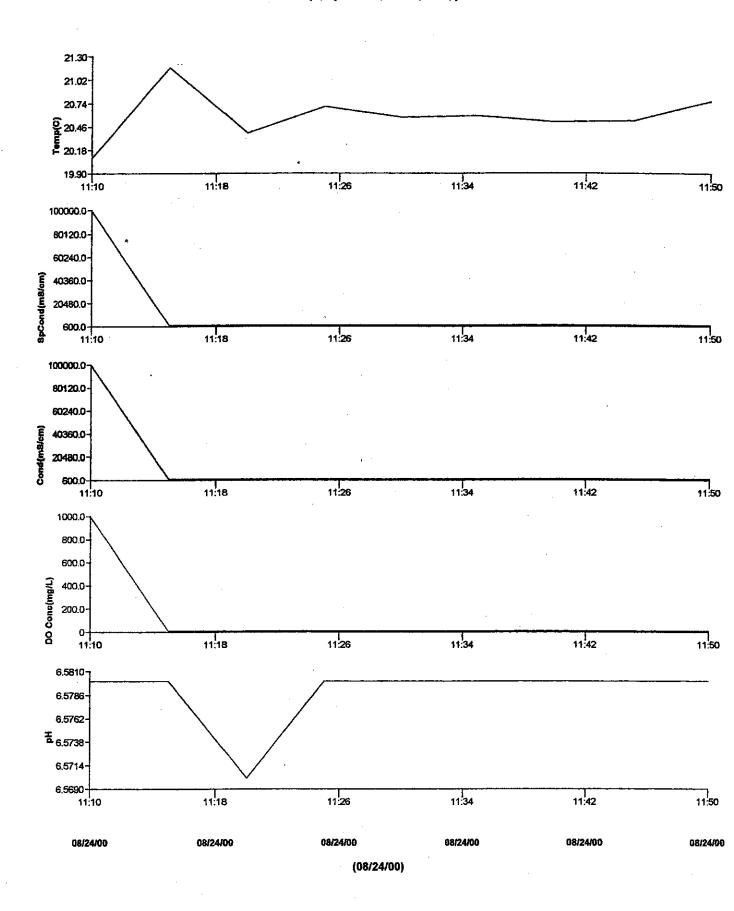
From 08/24/00 11:10 to 08/24/00 11:50

Number of samples: 9

Manuer or Samples. 3									
08/24/00	Temp C	SpCond mS/cm	Cond DO mS/cm	Conc mg/L	рН				
08/24/00 11:10 08/24/00 11:15 08/24/00 11:20 08/24/00 11:25 08/24/00 11:30 08/24/00 11:35 08/24/00 11:40 08/24/00 11:45	21.17 20.38 20.70 20.57 20.59 20.51	9999.000 642.400 638.300 639.300 641.400 643.600 647.000 651.500	582.000 586.700 587.200 589.400 591.400	999.99 0.00 0.00 0.00 0.00 0.00 0.00	6.58 6.58 6.57 6.58 6.58 6.58 6.58				
08/24/00 11:45		653.200		0.00	6.58				

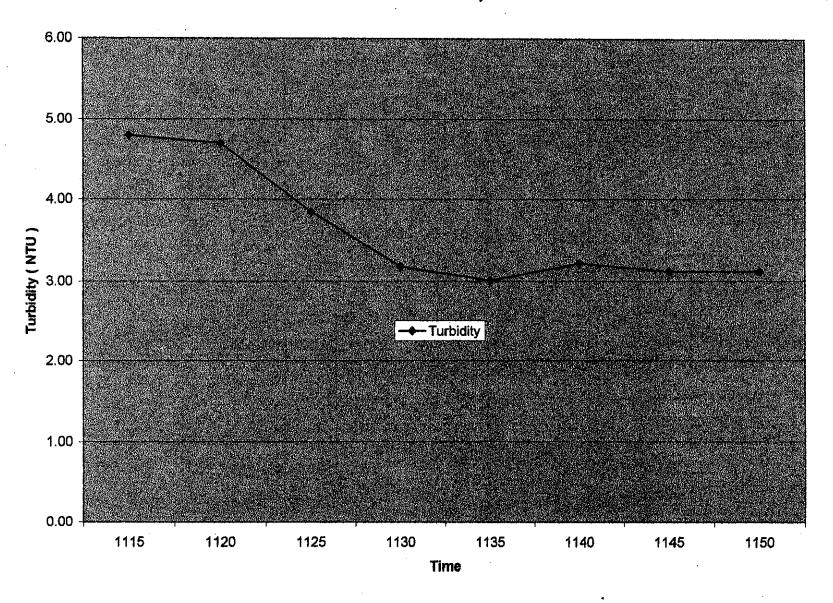
#### CW2MW30 Low Flow Data for

Temp., Sp. Cond., Cond., D.O., pH



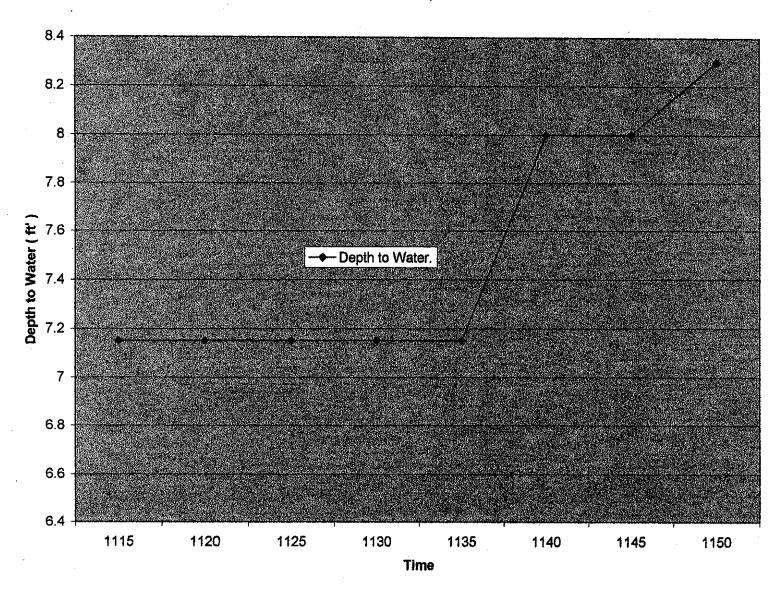
CW2MW30 Permit #: 29-32594 8/24/00

#### Turbidity



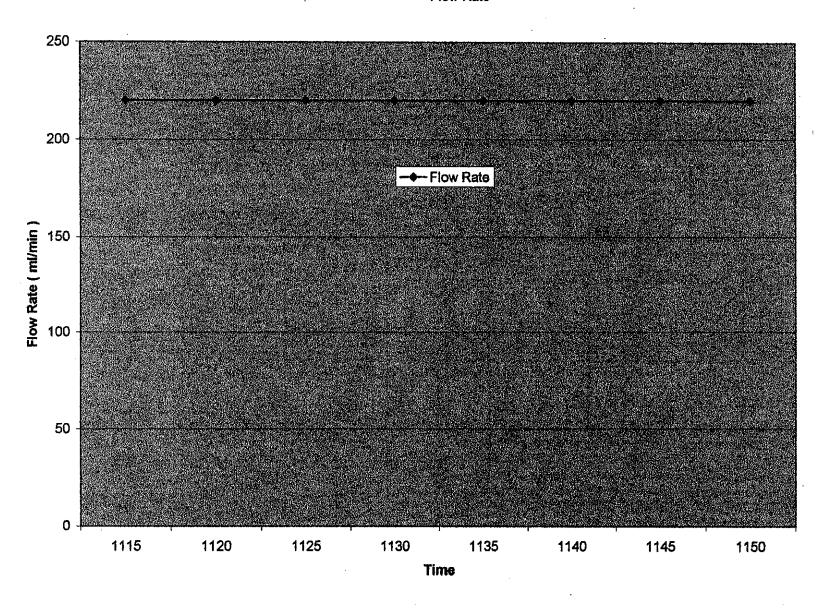
CW2MW30 Permit #: 29-32594 8/24/00

Depth to Water.



CW2MW30 Permit #: 29-32594 8/24/00

#### Flow Rate



## U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

Sonde Calibration:

Temp.: N/A

pH: 7.00/10.00/4.00 Buffers

Hnu Calibration: Span 2.8 w/ 100 ppm Isobutylene

Sp Cond/Cond:147.0 \( \mu\) ohms/cm solution (KCl)

After Sampling: 6.6 ft

(.65 for 4", .163 for 2")

DO: % Humidity 760mm (Barometric Pressure)

LOCATION: CW2 MW#: 0CW2MW31 NJDEP ID#29-32595

NJDEP CERT # 13461

SAMPLING CONTRACTOR: TVS

SAMPLER: David Sharpe

DATE: 08/23/00 WEATHER: Clear.

TIDE: N/A

WELL CONDITION: Good

LNAPLs: N DNAPLs: N

ELEV. OF INNER CASING SURVEY MARK: N/A ft

INNER CASING DIA: 4 INCH DEPTH TO WATER: 6.6 ft

HTO WATED. 666

DEPTH OF WELL: 16.9 ft

DEPTH TO TOP OF SCREEN: N/A ft

Before Purge Start: 6.6 ft

DEPTH OF PUMP/TUBE INTAKE:14 ft TUBING: Food grade Polyethylene 1/4"/Silicon

Previous Day: 6.7 ft

HEIGHT OF WATER: ft

() X .65 / X 3 = GALLONS OF H2O TO BE PURGED: Gal

PURGE METHOD: (FLOW at >100 TO <500 ml/Min): PURGE METHOD: (FLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): PURGE METHOD: (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min): (PLOW at >100 TO <500 ml/Min):

Purged at 240 mL/Min or Gal/Min. (ml to gal.: ml(.0002642)=gal)

PURGE RATE: gpm

Hnu READING: 0 ppm (Well)
Hnu READING: 0 ppm (Well Cap)

PURGE START TIME: 09:30

pH 6.59 su

u TEMP 19.99 ℃

DISSOLVED O<sub>2</sub> 0.00 mg/L SPECIFIC CONDUCTIVITY 1430 ms/cm

PURGE END TIME: 11:21

pH 6.57 su TEMP 20.05 °C

DISSOLVED O<sub>2</sub> 0.00 mg/L SPECIFIC CONDUCTIVITY 1359 ms/cm

DEPTH TO H2O AFTER PURGE AND SAMPLING: 6.6 ft

(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 11:17

pH 6.57 su

TEMP 20.17 °C

DISSOLVED O<sub>2</sub> 0.00 mg/L

SPECIFIC CONDUCTIVITY 1358 ms/cm

SAMPLE END TIME: 11:20 ANALYTES: TAL Metals

COMMENTS:

#### FIELD READINGS

MW:0CW2MW31 NJDEP ID#: 29-32595

DATE: 8/23/00

Time (Min.)	pН	Temp. (°C)	Cond.	Specific Cond.	Dissolved O <sub>2</sub> (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
9:30	6.59	19.99	1293	1430	0.00	25.5	6.7	240	
9:35	6.6	19.73	1284	1428	0.00	16.6	6.7	240	
9:40	6.6	19.78	1281	1423	0.00	17.2	6.7	240	
9:45	6.6	19.82	1276	1416	0.00	17.5	6.7	240	<del></del>
9:50	6.6	19.88	1270	1408	0.00	16.1	6.7	240	
9:55	6.59	19.94	1266	1401	0.00	14.7	6.7	240	
10:00	6.59	19.81	1259	1398	0.00	13,8	6.7	240	<del> </del>
10:05	6.59	19.85	1257	1395	0.00	13	6.7	240	
10:10	6.59	19.85	1255	1392	0.00	13.2	6.7	240	
10:15	6.59	19.91	1253	1388	0.00	12.5	6.7	240	
10:20	6.59	19.99	1254	1386	0.00	11.5	6.7	240	
10:25	6.58	19.96	1250	1384	0.00	10.8	6.7	240	
10:30	6.58	20.07	1252	1383	0.00	9.7	6.7	240	
10:35	6.58	20.09	1250	1379	0.00	10.2	6.7	240	
10:40	6.58	10.1	1246	1375	0.00	10.4	6.7	240	
10:45	6.58	20.09	1245	1374	0.00	9.8	6.7	240	
10:50	6.58	20.18	1245	1371	0.00	9.1	6.7	240	<del> </del>
10:55	6.57	20.19	1243	1368	0.00	11	6.7	240	· · · · · · · · · · · · · · · · · · ·
11:00	6.57	20.15	1239	1365	0.00	10	6.7	240	
11:05	6.57	20.07	1236	1365	0.00	9.7	6.7	240	
11:10	6.57	20.05	1230	1359	0.00	9.6	6.7	240	·
11:15	6.57	20.17	1232	1358	0.00	7.6	6.7	240	

(ine.			Find Rept Coulons)
930	25.50	6.7	240
935	16.60	6.7	240
940	17.20	6.7	240
945	17.50	6.7	240
950	16.10	6.7	240
955	14.70	6.7	240
1000	13.80	6.7	240
1005	13.00	6.7	240
1010	13.20	6.7	240
1015	12.50	6.7	240
1020	11.50	6.7	240
1025	10,80	6.7	240
1030	9.70	6.7	240
1035	10.20	6.7	240
1040	10.40	6.7	240
1045	9.80	6.7	240
1050	9.10	6.7	240
1055	11.00	6.7	240
1100	10.00	6.7	240
1105	9.70	6.7	240
1110	9.60	6.7	240
1115	7.60	6.7	240

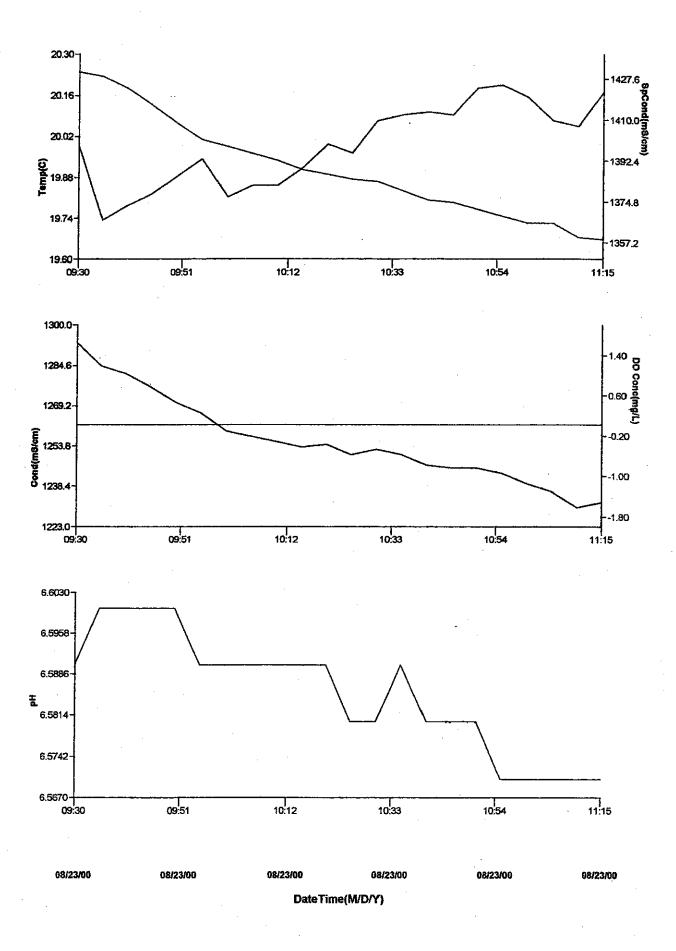
Cwmw31
CW2MW31 Low Flow Data For
Temp., Sp. Cond., Cond., D.O., pH
-- Data Report --

From 08/23/00 09:30 to 08/23/00 11:15

Number of samples: 22

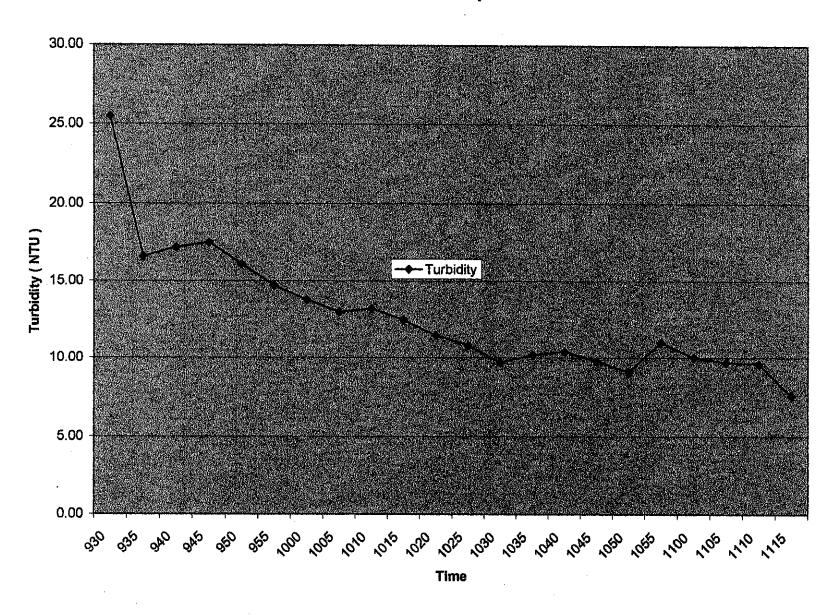
·	Temp	SpCond	Cond	DO Conc	Нф
08/23/00	C	mS/cm	mS/cm	mg/L	
08/23/00 09:30	19.991	430.0001	.293.000	0.00	6.59
08/23/00 09:35		428.0001		0.00	6.60
08/23/00 09:40		423.0001		0.00	6.60
08/23/00 09:45		416.0001		0.00	6.60
08/23/00 09:50		408.0001		0.00	6.60
08/23/00 09:55		401.0001		0.00	6.59
08/23/00 10:00		398.0001		0.00	6.59
08/23/00 10:05		395.0001		0.00	6.59
08/23/00 10:10		392.0001		0.00	6.59
08/23/00 10:15		388.0001		0.00	6.59
08/23/00 10:20		386.0001	and the second s	0.00	6.59
08/23/00 10:25		384.0001		0.00	6.58
08/23/00 10:30		383.0001		0.00	6.58
08/23/00 10:35		379.0001		0.00	6.59
08/23/00 10:40		375.0001		0.00	6.58
08/23/00 10:45	20.091	374.0001	245.000	0.00	6.58
08/23/00 10:50	20.181	371.0001	245.000	0.00	6.58
08/23/00 10:55	20.191	368.0001	243.000	0.00	6.57
08/23/00 11:00	20.151	365.0001	239.000	0.00	6.57
08/23/00 11:05	20.071	365.0001	236.000	0.00	6.57
08/23/00 11:10	20.051	359.0001	230.000	0.00	6.57
08/23/00 11:15	20.171	358.0001	232.000	0.00	6.57

#### CW2MW31.DAT



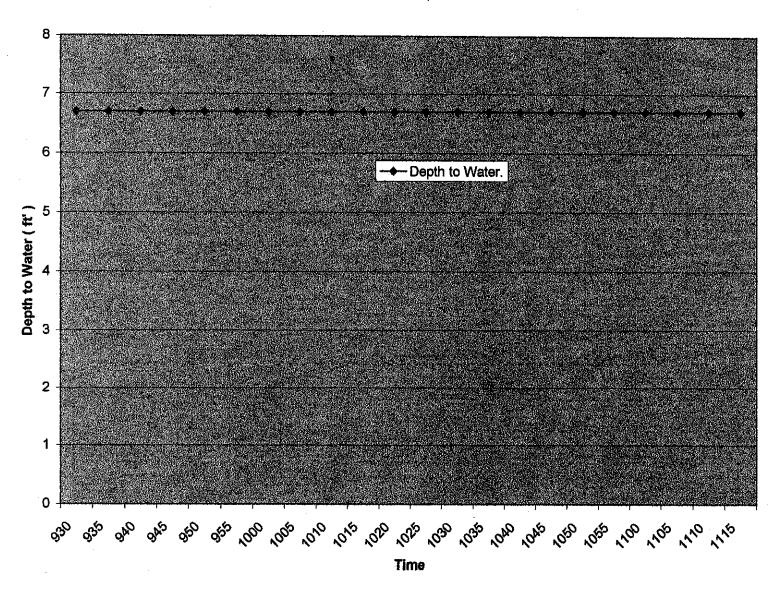
#### CW2MW31 Permit #: 29-32595 8/23/00

#### Turbidity



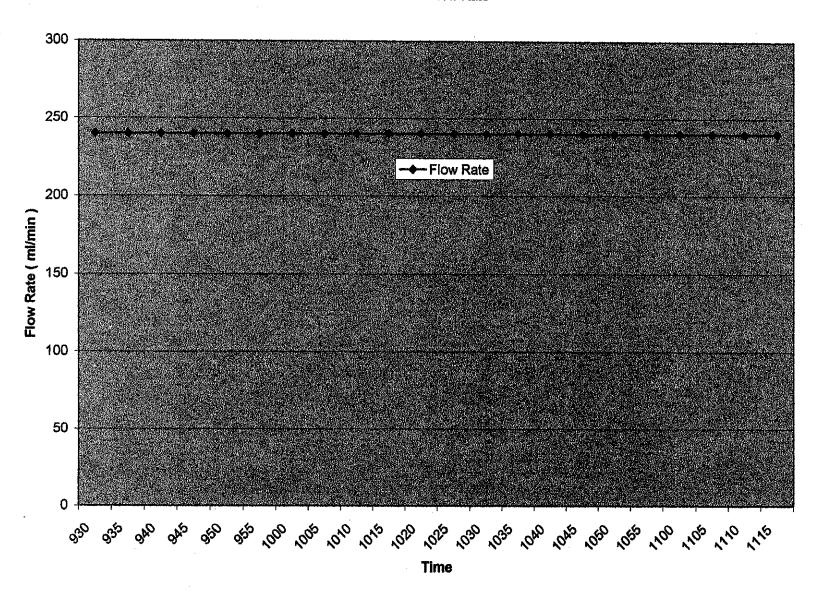
#### CW2MW31 Permit #: 29-32595 8/23/00

Depth to Water.



#### CW2MW30 Permit #: 29-32595 8/23/00

#### Flow Rate



## U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

Sonde Calibration:

Temp.: N/A

pH: 7.00/10.00/4.00 Buffers

**LOCATION: CW2** 

MW#: 0CW2MW32

NJDEP ID#29-32596

**NJDEP CERT # 13461** 

SAMPLING CONTRACTOR: TVS

SAMPLER: David Sharpe

DATE: 08/23/00 WEATHER: Cloudy.

TIDE: N/A

WELL CONDITION: Good

LNAPLs: N DNAPLs: N

ELEV. OF INNER CASING SURVEY MARK: N/A ft

INNER CASING DIA: 4 INCH **DEPTH TO WATER: 6.95 ft** 

Before Purge Start: 6.95 ft DEPTH OF WELL: 16.89 ft

DEPTH TO TOP OF SCREEN: N/A ft

DEPTH OF PUMP/TUBE INTAKE:14.5 ft

TUBING: Food grade Polyethylene 1/4"/Silicon

HEIGHT OF WATER: ft

() X .65 / X 3 =

(.65 for 4", .163 for 2")

After Sampling: 6.9 ft

Hnu Calibration: Span 2.8 w/ 100 ppm Isobutylene

Sp Cond/Cond:147.0 \( \mu\) ohms/cm solution (KCl)

DO: % Humidity 760mm (Barometric Pressure)

GALLONS OF H2O TO BE PURGED: Gal

PURGE METHOD: (FLOW at >100 TO <500 ml/Min): 2500 ml/2 2" REDIFLO 2 GRUNDPHOS SUBMERSIBLE PUMP

Previous Day: 6.90 ft

Purged at 280 mL/Min or

Gal/Min. (ml to gal.: ml(.0002642)=gal)

PURGE RATE: gpm

Hnu READING: 0 ppm (Well) Hnu READING: 0 ppm (Well Cap)

PURGE START TIME: 12:00

pH 6.74 su

TEMP 20.55 °C

DISSOLVED O<sub>2</sub> 0.00 mg/L

SPECIFIC CONDUCTIVITY 1525 ms/cm

PURGE END TIME: 12:46

pH 6.73 su

TEMP 21.29 °C

DISSOLVED O<sub>2</sub> 0.00 mg/L

SPECIFIC CONDUCTIVITY 1516 ms/cm

DEPTH TO H2O AFTER PURGE AND SAMPLING: 6.9 ft

(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 12:41

pH 6.73 su

TEMP 21.16 °C

DISSOLVED O<sub>2</sub> 0.00 mg/L

SPECIFIC CONDUCTIVITY 1515 ms/cm

SAMPLE END TIME: 12:45 ANALYTES: TAL Metals

COMMENTS:

# **FIELD READINGS**

MW:0CW2MW32 NJDEP ID#: 29-32596

DATE: 8/23/00

Time (Min.)	рН	Temp. (°C)	Cond.	Specific Cond.	Dissolved O <sub>2</sub> (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
12:00	6.74	20.55	1396	1525	0.00	13.9	6.8	280	
12:05	6.74	20.72	1398	1523	0.00	8.4	6.8	280	
12:10	6.74	20.87	1403	1523	0.00	11.1	6.8	280	
12:15	6.74	21.03	1406	1521	0.00	8.2	6.8	280	
12:20	6.74	21.25	1412	1521	0.00	6.6	6.8	280	
12:25	6.74	21.27	1413	1521	0.00	7.4	6.8	280	
12:30	6.74	21.51	1418	1519	0.00	8.3	6.8	280	
12:35	6.73	21.29	1409	1516	0.00	8.7	6.8	280	
12:40	6.73	21.16	1404	1515	0.00	9.0	6.8	280	

Total Control			Figure (Figure 1) and the first of the first
1200	13.90	6.8	280
1205	8.40	6.8	280
1210	11.10	6.8	280
1215	8.20	6.8	280
1220	6.60	6.8	280
1225	7.40	6.8	280
1230	8.30	6.8	280
1235	8.70	6.8	280
1240	9.00	6.8	280

#### Cw2mw32 CW2MW32 Low Flow Data For Temp., Sp. Cond., Cond., D.O., pH -- Data Report --

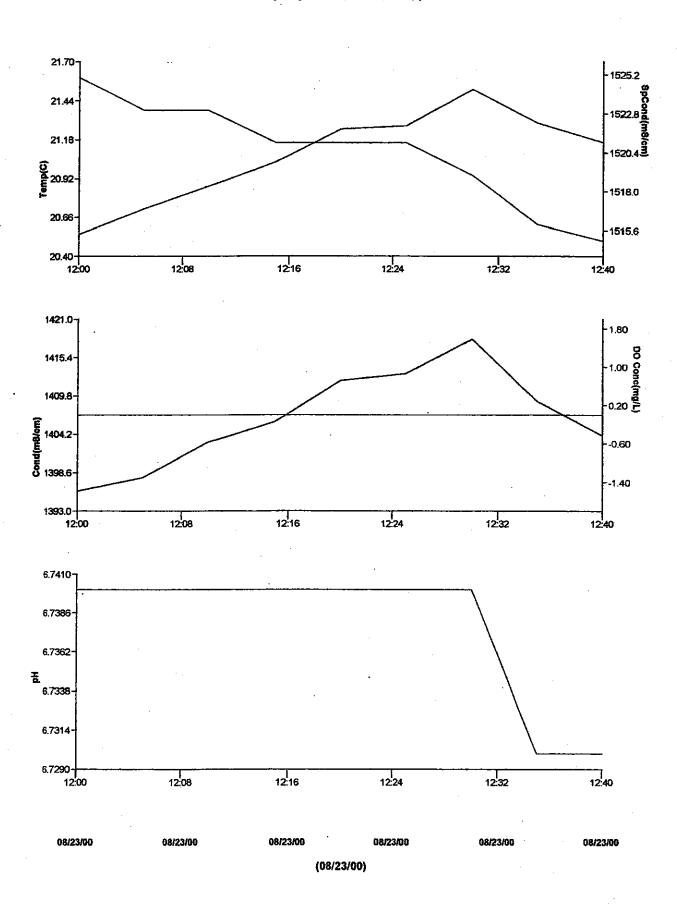
From 08/23/00 12:00 to 08/23/00 12:40

Number of samples: 9

08/23/00	Temp C	SpCond mS/cm	Cond mS/cm	DO Conc mg/L	Нф
08/23/00 12:00 08/23/00 12:05 08/23/00 12:10 08/23/00 12:15 08/23/00 12:20 08/23/00 12:25 08/23/00 12:30 08/23/00 12:35	20.7215 20.8715 21.0315 21.2515 21.2715 21.5115 21.2915	525.00013 523.00014 523.00014 521.00014 521.00014 519.00014	398.000 103.000 106.000 112.000 113.000 118.000 109.000	0.00 0.00 0.00 0.00 0.00 0.00	6.74 6.74 6.74 6.74 6.74 6.74 6.73
08/23/00 12:40	21.1615	515.00014	104.000	0.00	6.73

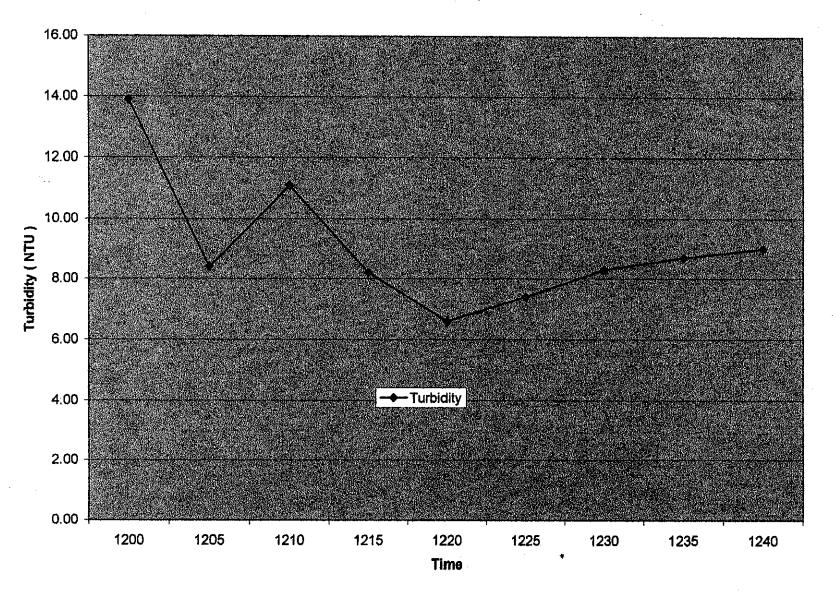
#### **CW2MW32** Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH



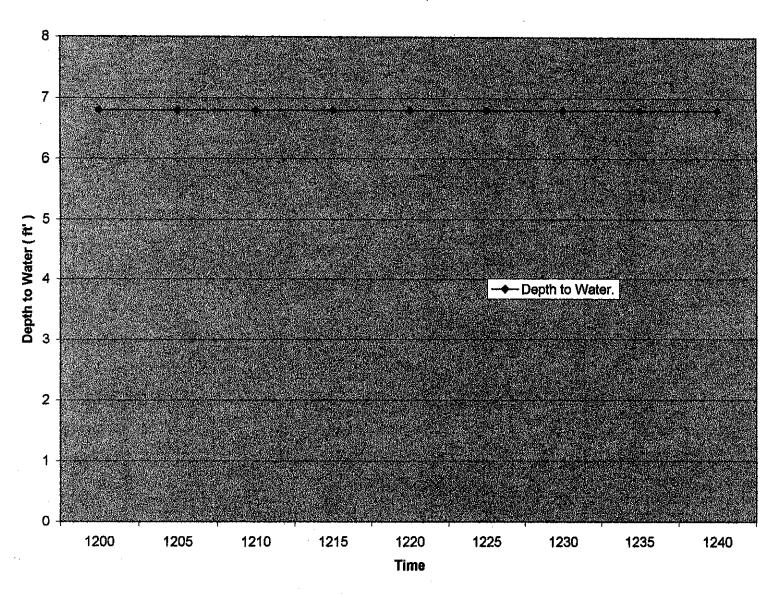
CW2MW32 Permit #: 29-32596 8/23/00

#### Turbidity



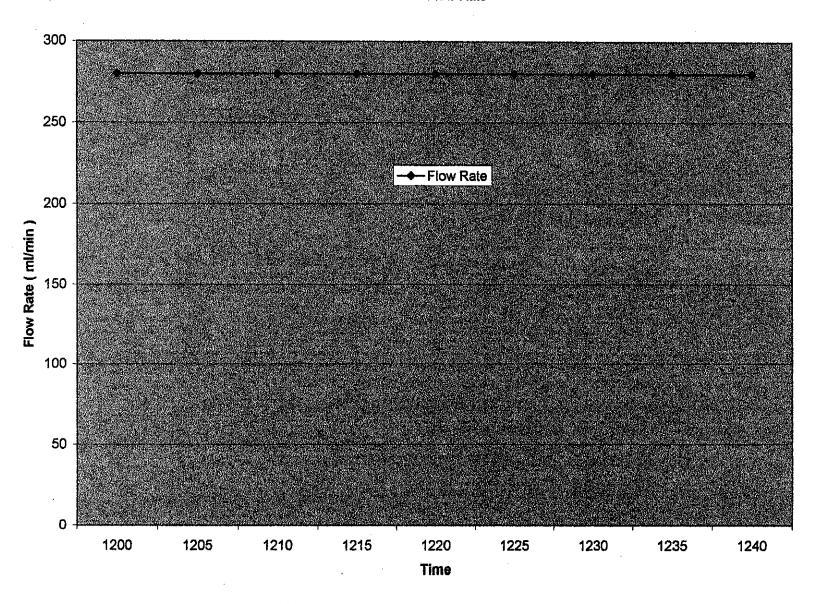
CW2MW32 Permit #: 29-32596 8/23/00

Depth to Water.



CW2MW32 Permit #: 29-32596 8/23/00

#### Flow Rate



## U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

Sonde Calibration:

Temp.: N/A

pH: 7.00/10.00/4.00 Buffers

LOCATION: CW2 MW#: 0CW2MW33 NJDEP ID#29-32597 NJDEP CERT # 13461

SAMPLING CONTRACTOR: TVS

SAMPLER: David Sharpe

DATE: 08/23/00 WEATHER: Cloudy.

TIDE: N/A

WELL CONDITION: Good

LNAPLs: N DNAPLs: N

ELEV. OF INNER CASING SURVEY MARK: N/A ft

INNER CASING DIA: 4 INCH **DEPTH TO WATER: 8.7 ft** 

Before Purge Start: 8.7 ft

Previous Day: 8.8 ft

After Sampling: 8.7 ft

DEPTH OF WELL: 16.10 ft

DEPTH TO TOP OF SCREEN: N/A ft

DEPTH OF PUMP/TUBE INTAKE:14 ft

TUBING: Food grade Polyethylene 1/4"/Silicon

HEIGHT OF WATER: ft

() X .65 / X 3 =

(.65 for 4", .163 for 2")

Hnu Calibration: Span 2.8 w/ 100 ppm Isobutylene

Sp Cond/Cond:147.0 \( \mu\) ohms/cm solution (KCl)

DO: % Humidity 760mm (Barometric Pressure)

GALLONS OF H2O TO BE PURGED: Gal

PURGE METHOD:(FLOW at >100 TO <500 ml/Min): PURGE METHOD: 2 GRUNDPHOS SUBMERSIBLE PUMP

Purged at 230 mL/Min or Gal/Min. (ml to gal.: ml(.0002642)=gal)

PURGE RATE: gpm

Hnu READING: 0 ppm (Well) Hnu READING: 0 ppm (Well Cap)

**PURGE START TIME: 13:20** 

pH 6.33 su

TEMP 19.07 °C

DISSOLVED O<sub>2</sub> 0.00 mg/L

SPECIFIC CONDUCTIVITY 886.2 ms/cm

**PURGE END TIME: 14:41** 

pH 6.26 su

TEMP 18.80 °C

DISSOLVED O<sub>2</sub> 0.00 mg/L

SPECIFIC CONDUCTIVITY 1162 ms/cm

DEPTH TO H2O AFTER PURGE AND SAMPLING: 8.7 ft

(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 14:36

pH 6.25 su

TEMP 18.75 °C

DISSOLVED O<sub>2</sub> 0.00 mg/L

SPECIFIC CONDUCTIVITY 1180 ms/cm

SAMPLE END TIME: 14:40 ANALYTES: TAL Metals

COMMENTS:

## FIELD READINGS

MW:0CW2MW33

NJDEP ID#: 29-32597

DATE: 8/23/00

Time (Min.)	pН	Temp. (°C)	Cond.	Specific Cond.	Dissolved O₂ (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
13:20	6.33	19.07	785.9	886.2	0.00	145	8.7	230	
13:25	6.32	18.96	785.3	887.7	0.00	85.6	8.7	230	
13:30	6.32	18:93	789.4	892.9	0.00	47.9	8.7	230	
13:35	6.32	19	799.7	903.2	0.00	44.2	8.7	230	- · · · · · · · · · · · · · · · · · · ·
13:40	6.31	19.15	814.4	916.9	0.00	40.2	8.7	230	
13:45	6.31	19.08	821.8	926.5	0.00	34	8.7	230	
13:50	6.3	19	833.3	941.2	0.00	24.4	8.7	230	
13:55	6.3	19.02	844.8	953.9	0.00	20.1	8.7	230	
14:00	6.29	18.97	873.5	987.3	0.00	16.1	8.7	230	
14:05	6.28	18.84	907.4	1028	0.00	14.4	8.7	230	
14:10	6.28	18.9	939.7	1064	0.00	14.4	8.7	230	
14:15	6.27	18.84	968.6	1098	0.00	11.1	8.7	230	
14:20	6.26	18.82	992.9	1126	0.00	10.6	8.7	230	
14:25	6.26	18.81	1015	1151	0.00	9.58	8.7	230	
14:30	6.26	18.8	1025	1162	0.00	9.21	8.7	230	
14:35	6.25	18.75	1039	1180	0.00	7.4	8.7	230	

Sint S			
1320	145.00	8.7	230
1325	85.60	8.7	230
1330	47.90	8.7	230
1335	44.20	8.7	230
1340	40.20	8.7	230
1345	. 34.00	8.7	230
1350	24.40	8.7	230
1355	20.10	8.7	230
1400	16.10	8.7	230
1405	14.40	8.7	230
1410	14.40	8.7	230
1415	11.10	8.7	230
1420	10.60	8.7	230
1425	9.68	8.7	230
1430	9.21	8.7	230
1435	7.40	8.7	230

# Cw2mw33 CW2MW33 Low Flow Data For Temp., Sp. Cond., Cond., D.O., pH -- Data Report --

\_\_\_\_\_

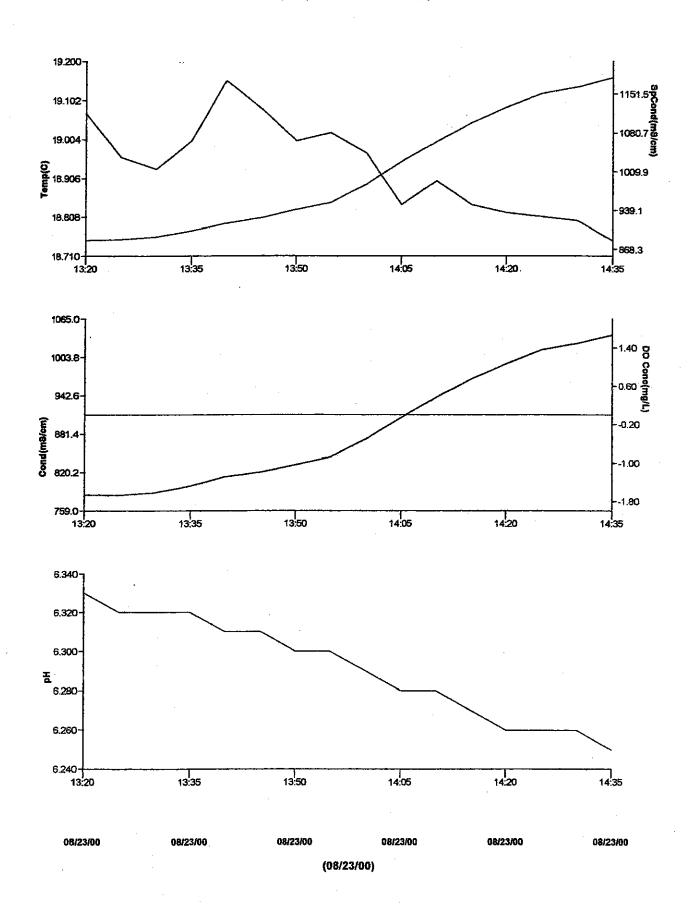
From 08/23/00 13:20 to 08/23/00 14:35

Number of samples: 16

08/23/00         C         mS/cm         mg/L           08/23/00 13:20         19.07 886.200 785.900         0.00 6.33           08/23/00 13:25         18.96 887.700 785.300         0.00 6.32           08/23/00 13:30         18.93 892.900 789.400         0.00 6.32           08/23/00 13:35         19.00 903.200 799.700         0.00 6.32           08/23/00 13:40         19.15 916.900 814.400         0.00 6.31           08/23/00 13:45         19.08 926.500 821.800         0.00 6.31           08/23/00 13:50         19.00 941.200 833.300         0.00 6.30           08/23/00 13:55         19.02 953.900 844.800         0.00 6.30           08/23/00 14:00         18.97 987.300 873.500         0.00 6.29           08/23/00 14:10         18.841028.000 907.400         0.00 6.28           08/23/00 14:15         18.841098.000 968.600         0.00 6.27							
08/23/00 13:25       18.96 887.700 785.300       0.00       6.32         08/23/00 13:30       18.93 892.900 789.400       0.00       6.32         08/23/00 13:35       19.00 903.200 799.700       0.00       6.32         08/23/00 13:40       19.15 916.900 814.400       0.00       6.31         08/23/00 13:45       19.08 926.500 821.800       0.00       6.31         08/23/00 13:50       19.00 941.200 833.300       0.00       6.30         08/23/00 13:55       19.02 953.900 844.800       0.00       6.30         08/23/00 14:00       18.97 987.300 873.500       0.00       6.29         08/23/00 14:10       18.841028.000 907.400       0.00       6.28         08/23/00 14:15       18.841098.000 968.600       0.00       6.27	08/23/00		_	_	_		рН
08/23/00 14:20 18.821126.000 992.900 0.00 6.26 08/23/00 14:25 18.811151.0001015.000 0.00 6.26 08/23/00 14:30 18.801162.0001025.000 0.00 6.26 08/23/00 14:35 18.751180.0001039.000 0.00 6.25	08/23/00 08/23/00 08/23/00 08/23/00 08/23/00 08/23/00 08/23/00 08/23/00 08/23/00 08/23/00 08/23/00 08/23/00 08/23/00	13:25 13:30 13:35 13:40 13:45 13:50 13:55 14:00 14:05 14:10 14:15 14:20 14:25 14:30	18.96 18.93 19.00 19.15 19.08 19.00 19.02 18.97 18.841 18.821 18.821	887.700 892.900 903.200 916.900 926.500 941.200 953.900 987.300 1028.000 1064.000 1098.000 1151.0001	785.300 789.400 799.700 814.400 821.800 833.300 844.800 907.400 939.700 968.600 992.900 1015.000	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	6.32 6.32 6.31 6.31 6.30 6.30 6.29 6.28 6.27 6.26 6.26

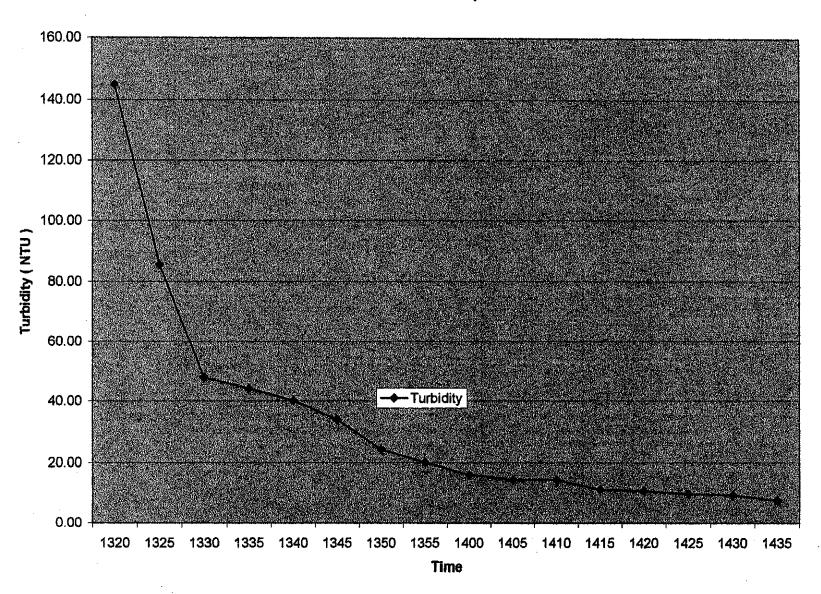
### CW2MW33 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH



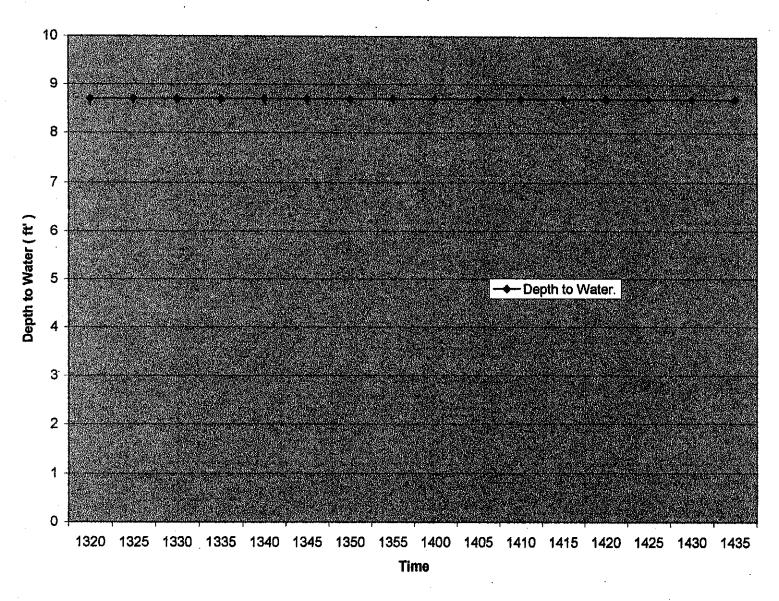
#### CW2MW33 Permit #: 29-32597 8/23/00

#### Turbidity



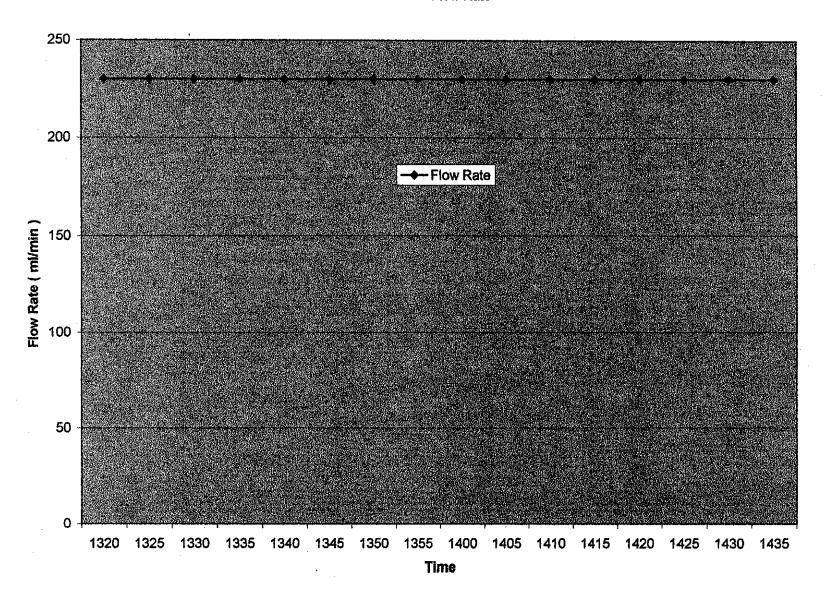
#### CW2MW33 Permit #: 29-32597 8/23/00

#### Depth to Water.



#### CW2MW33 Permit #: 29-32597 8/23/00

#### Flow Rate



## **METALS**

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

Lab ID #: 5657

DPW, SELFM-PW-EV

Sample Prepared: 09/07/00

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-2

Field ID#: Method Blank

Ft. Monmouth, New Jersey

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
<u> </u>	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	09/07/00	30	200	10.0
Antimony	09/07/00	ND	20	2.0
Arsenic	09/07/00	ND	8	2.0
Barium	09/07/00	ND	2000	0.5
Beryllium	09/07/00	ND	20	0.5
Cadmium	09/07/00	ND	4	0.5
Calcium	09/07/00	120	NLE	20.0
Chromium	09/07/00	ND	100	0.5
Cobalt	09/07/00	ND	NLE	0.5
Copper	09/07/00	ND	1000	2.0
Iron	09/07/00	15.0	300	10.0
Lead	09/07/00	ND	10	1.0
Magnesium	09/07/00	ND	NLE	10.0
Manganese	09/07/00	ND	50	0.5
Mercury	09/07/00	ND	2	0.1
Nickel	09/07/00	ND	100	1.0
Potassium	09/07/00	ND	NLE	40.0
Selenium	09/07/00	ND	50	3.0
Silver	09/07/00	ND	20	1.0
Sodium	09/07/00	890	50000	20.0
Thallium	09/07/00	ND	10	2.0
Vanadium	09/07/00	ND	NLE	0.5
Zinc	09/07/00	19.0	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5657.01

Sample Received: 08/23/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	09/07/00	ND	200	10.0
Antimony	09/07/00	ND	20	2.0
Arsenic	09/07/00	ND	8	2.0
Barium	09/07/00	ND	_2000	0.5
Beryllium	09/07/00	ND	20	0.5
Cadmium	09/07/00	ND	4	0.5
Calcium	09/07/00	ND	NLE	20.0
Chromium	09/07/00	ND	100	0.5
Cobalt	09/07/00	ND	NLE	0.5
Copper	09/07/00	ND	1000	2.0
Iron	09/07/00	ND	300	10.0
Lead	09/07/00	ND	10	1.0
Magnesium	09/07/00	ND	NLE	10.0
Manganese	09/07/00	ND	50	0.5
Mercury	09/07/00	ND	2	0.1
Nickel	09/07/00	ND	100	1.0
Potassium	09/07/00	47.8	NLE	40.0
Selenium	09/07/00	ND	50	3.0
Silver	09/07/00	ND	20	1.0
Sodium	09/07/00	ND	50000	20.0
Thallium	09/07/00	ND	10	2.0
Vanadium	09/07/00	ND	NLE	0.5
Zinc	09/07/00	ND	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5660.01

Sample Received: 08/25/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Blank

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	09/07/00	ND	200	10.0
Antimony	09/07/00	ND	20	2.0
Arsenic	09/07/00	ND	8	2.0
Barium	09/07/00	ND	2000	0.5
Beryllium	09/07/00	ND	20	0.5
Cadmium	09/07/00	ND	4	0.5
Calcium	09/07/00	ND	NLE	20.0
Chromium	09/07/00	ND	100	0.5
Cobalt	09/07/00	ND	NLE	0.5
Copper	09/07/00	ND	1000	2.0
Iron	09/07/00	ND	300	10.0
Lead	09/07/00	ND	10	1.0
Magnesium	09/07/00	ND	NLE	10.0
Manganese	09/07/00	ND	50	0.5
Mercury	09/07/00	ND	2	0.1
Nickel	09/07/00	ND	100	1.0
Potassium	09/07/00	ND	NLE	40.0
Selenium	09/07/00	ND	50	3.0
Silver	09/07/00	ND	20	1.0
Sodium	09/07/00	ND	50000	. 20.0
Thallium	09/07/00	ND	10	2.0
Vanadium	09/07/00	ND	NLE	0.5
Zinc	09/07/00	ND	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5657.05

Sample Received: 08/23/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Field Dup

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	09/07/00	65.2	200	10.0
Antimony	09/07/00	ND	20	2.0
Arsenic	09/07/00	ND	8	2.0
Barium	09/07/00	250	2000	0.5
Beryllium	09/07/00	ND	20	0.5
Cadmium	09/07/00	ND	4	0.5
Calcium	09/07/00	55700	NLE	20.0
Chromium	09/07/00	ND	100	0.5
Cobalt	09/07/00	ND	NLE	0.5
Copper	09/07/00	ND	1000	2.0
Iron	09/07/00	70200	300	10.0
Lead	09/07/00	ND	10	1.0
Magnesium	09/07/00	6870	NLE	10.0
Manganese	09/07/00	308	50	0.5
Mercury	09/07/00	ND	2	0.1
Nickel	09/07/00	ND	100	1.0
Potassium	09/07/00	10500	NLE	40.0
Selenium	09/07/00	ND	50	3.0
Silver	09/07/00	ND	20	1.0
Sodium	09/07/00	14100	50000	20.0
Thallium	09/07/00	ND	10	2.0
Vanadium	09/07/00	ND	NLE	0.5
Zinc	09/07/00	38.8	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5660.02

Sample Received: 08/25/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW30

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	09/07/00	65.2	200	10.0
Antimony	09/07/00	4.12	20	2.0
Arsenic	09/07/00	4.27	8	2.0
Barium	09/07/00	61.3	2000	0.5
Beryllium	09/07/00	ND	20	0.5
Cadmium	09/07/00	ND	4	0.5
Calcium	09/07/00	84600	NLE	20.0
Chromium	09/07/00	ND	100	0.5
Cobalt	09/07/00	ND	NLE	0.5
Copper	09/07/00	ND	1000	2.0
Iron	09/07/00	2180	300	10.0
Lead	09/07/00	ND	10	1.0
Magnesium	09/07/00	5950	NLE	10.0
Manganese	09/07/00	19.5	50	0.5
Mercury	09/07/00	ND.	2	0.1
Nickel	09/07/00	ND	100	1.0
Potassium	09/07/00	9500	NLE	40.0
Selenium	09/07/00	ND	50	3.0
Silver	09/07/00	ND	20	1.0
Sodium	09/07/00	14200	50000	20.0
Thallium	09/07/00	ND	10	2.0
Vanadium	09/07/00	ND	NLE	0.5
Zinc	09/07/00	33.8	5000 .	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5657.02

Sample Received: 08/23/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW31

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	09/07/00	42.7	200	10.0
Antimony	09/07/00	2.74	20	2.0
Arsenic	09/07/00	ND	8	2.0
Barium	09/07/00	245	2000	0.5
Beryllium	09/07/00	ND	20	0.5
Cadmium	09/07/00	ND	4	0.5
Calcium	09/07/00	54000	NLE	20.0
Chromium	09/07/00	ND	100	0.5
Cobalt	09/07/00	ND	NLE	0.5
Copper	09/07/00	ND	1000	2.0
Iron	09/07/00	69000	300	10.0
Lead	09/07/00	ND	10	1.0
Magnesium	09/07/00	6610	NLE	10.0
Manganese	09/07/00	300	50	0.5
Mercury	09/07/00	ND	2	0.1
Nickel	09/07/00	ND	100	1.0
Potassium	09/07/00	10600	NLE	40.0
Selenium	09/07/00	ND	50	3.0
Silver	09/07/00	ND	20	1.0
Sodium	09/07/00	12700	50000	20.0
Thallium	09/07/00	ND	10	2.0
Vanadium	09/07/00	ND	NLE	0.5
Zinc	09/07/00	25.2	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established
\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5657.03

Sample Received: 08/23/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW32

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	09/07/00	53.7	200	10.0
Antimony	09/07/00	2.36	20	2.0
Arsenic	09/07/00	ND	8	2.0
Barium	09/07/00	51.3	2000	0.5
Beryllium	09/07/00	ND	20	0.5
Cadmium	09/07/00	ND	4	0.5
Calcium	09/07/00	131000	NLE	20.0
Chromium	09/07/00	ND	100	0.5
Cobalt	09/07/00	ND	NLE	0.5
Copper	09/07/00	ND	1000	2.0
Iron	09/07/00	2100	300	10.0
Lead	09/07/00	1.73	10	1.0
Magnesium	09/07/00	12400	NLE	10.0
Manganese	09/07/00	3.61	50	0.5
Mercury	09/07/00	ND	2	0.1
Nickel	09/07/00	ND	100	1.0
Potassium	09/07/00	5600	NLE	40.0
Selenium	09/07/00	ND	50	3.0
Silver	09/07/00	ND	20	1.0
Sodium	09/07/00	25600	50000	20.0
Thallium	09/07/00	ND	10	2.0
Vanadium	09/07/00	ND	NLE	0.5
Zinc	09/07/00	56.8	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5657.04

Sample Received: 08/23/00

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
Diomoni	Analysis			1
A 7 .		(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	09/07/00	623	200	10.0
Antimony	09/07/00	ND	20	2.0
Arsenic	09/07/00	ND	8	2.0
Barium	09/07/00	189	2000	0.5
Beryllium	09/07/00	ND	20	0.5
Cadmium	09/07/00	ND	4	0.5
Calcium	09/07/00	60800	NLE	20.0
Chromium	09/07/00	ND	100	0.5
Cobalt	09/07/00	ND	NLE	0.5
Copper	09/07/00	ND	1000	2.0
Iron	09/07/00	59800	300	10.0
Lead	09/07/00	2.44	10	1.0
Magnesium	09/07/00	8740	NLE	10.0
Manganese	09/07/00	281	50	0.5
Mercury	09/07/00	ND	2	0.1
Nickel	09/07/00	ND	100	1.0
Potassium	09/07/00	10200	NLE	40.0
Selenium	09/07/00	ND	50	3.0
Silver	09/07/00	ND	20	1.0
Sodium	09/07/00	84100	50000	20.0
Thallium	09/07/00	ND	10	2.0
Vanadium	09/07/00	ND	NLE	0.5
Zinc	09/07/00	29.5	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

## FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

**DIRECTORATE OF PUBLIC WORKS** 

PHONE: (732)532-6224 FAX: (732)532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT **FOR** Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/ Long Term Monitoring Low Flow/Round II

### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
5765.05	0CW2MW30	29-32594	10/03/00
5765.02	0CW2MW31	29-32595	10/03/00
5765.04	0CW2MW32	29-32596	10/03/00
5765.06	0CW2MW33	29-32597	10/03/00

NJDEP Laboratory Certification # 13461

Daniel Wright/Date:

Laboratory Director

## METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18 <sup>th</sup> ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part
	136
	Appendix A
Base/Neutrals and Acid Extractables by GC/MS	625
Purgeable Organcis by	624
GC/MS	· • • • • • • • • • • • • • • • • • • •
Pesticides and PCB's by GC	608

## SAMPLING



## Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: JFAL	ON		Project No: 1	ow Flow	<del></del>		Analysis Parameters Comments:					Comments:			
Phone #: X26			Location: Cx	<b>J</b> 2						-					
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Samplers Name / C	ompany	y: Douid Storpe - Tu			Sample		e) e								
Lab Sample I.D.	1	Sample Location	Date	Time	Туре	bottles	7.2								Remarks / Preservation Method
5765.		Ł8	10/2/60	0840	AG	i	<b>\</b>								HNO,
/	-	CLIZHWII	1013 60	1010	AQ	1	/								V
	3	FD	lı .		40	1	/								h
4	1 0	ZW2MW32	u	1250	AG	1	/								ч .
	C	12M030	tı .	1430	ACQ	-	/								ų .
- 6	, <u>c</u>	w2hu35		1550	10	1	/								L .
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Relinquished by (signa	ture):	Date/Time:	Received by (	ignature):		Relino	puished	by (sig	nature):		Date/	Time:	Receiv	ed by (	signature):
Tal By		10/2/00 /400	(). <i>()</i>	<u>UM</u>	M		<u>.</u>					,			
Relinquished by (signa	ure):	Date/Time:	Received by (	signature):	Relinquished by (signature): Date/Time: Received by (signature):			signature):							
				<u> </u>				بينظنيظردانا							
A 1		ed, (Standard, OScreen	/ non-certified	()EDD		. ,	Remai	ks:							
Turnaround time: (X)	ndard 3	wks, ()Rush Days,	_ASAP Verb	al Hrs.											

## U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

Sonde Calibration:

Temp: N/A

pH: 7.00/10.00/4.00 Buffers

LOCATION: CW-2 (2700)

MW#: 0CW2MW30

NJDEP ID#29-32594

**NJDEP CERT # 13461** 

SAMPLING CONTRACTOR: TVS

SAMPLER: David Sharpe

DATE: 10/03/00

WEATHER: Sunny, Warm

TIDE: N/A

WELL CONDITION: Good

LNAPLs: N DNAPLs: N

ELEV. OF INNER CASING SURVEY MARK: N/A ft

INNER CASING DIA: 4 INCH **DEPTH TO WATER: 6.73 ft** 

Before Purge Start: 6.73 ft

Previous Day: 6.80 ft

After Sampling: 8,86 ft

DEPTH OF WELL: 17.95 ft

DEPTH TO TOP OF SCREEN: N/A ft

DEPTH OF PUMP/TUBE INTAKE: 15.0 ft

TUBING: Food grade Polyethylene 1/4"/Silicon

Hnu Calibration: Span 0.8 w/ 100 ppm Isobutylene

Sp Cond/Cond:147.0 μ ohms/cm solution (KCl)

DO: % Humidity 760mm (Barometric Pressure)

HEIGHT OF WATER: 11.22 ft

 $11.22 \times .65 \times 3 = 21.88$ 

(0.65 for 4", 0.163 for 2")

GALLONS OF H2O TO BE PURGED: 22 Gal

PURGE METHOD:(FLOW at >100 TO <500 ml/Min): PERISTALTIC PUMP

Purged at 300 mL/Min or Gal/Min. (mL to gal: mL (.0002642)=gal)

PURGE RATE: gpm

Hnu READING: 0 ppm (Well) Hnu READING: 0 ppm (Well Cap)

**PURGE START TIME: 13:40** 

pH 6.44 su

TEMP 20.67 °C

DISSOLVED O2 0.35 mg/L

SPECIFIC CONDUCTIVITY 154.8 ms/cm

PURGE END TIME: 14:30

pH 6.45 su

TEMP 21.00 °C

DISSOLVED O<sub>2</sub> 0.15 mg/L

SPECIFIC CONDUCTIVITY 143.4 ms/cm

DEPTH TO H2O AFTER PURGE AND SAMPLING: 8.86 ft

(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 14:25

pH 6.64 su

TEMP 20.87 °C

DISSOLVED O<sub>2</sub> 0.17 mg/L

SPECIFIC CONDUCTIVITY 144.4 ms/cm

SAMPLE END TIME: 14:29 ANALYTES: TAL Metals

COMMENTS:

## **FIELD READINGS**

MW: 0CW2MW30 NJDEP ID#: 29-32594

DATE: 10/03/00

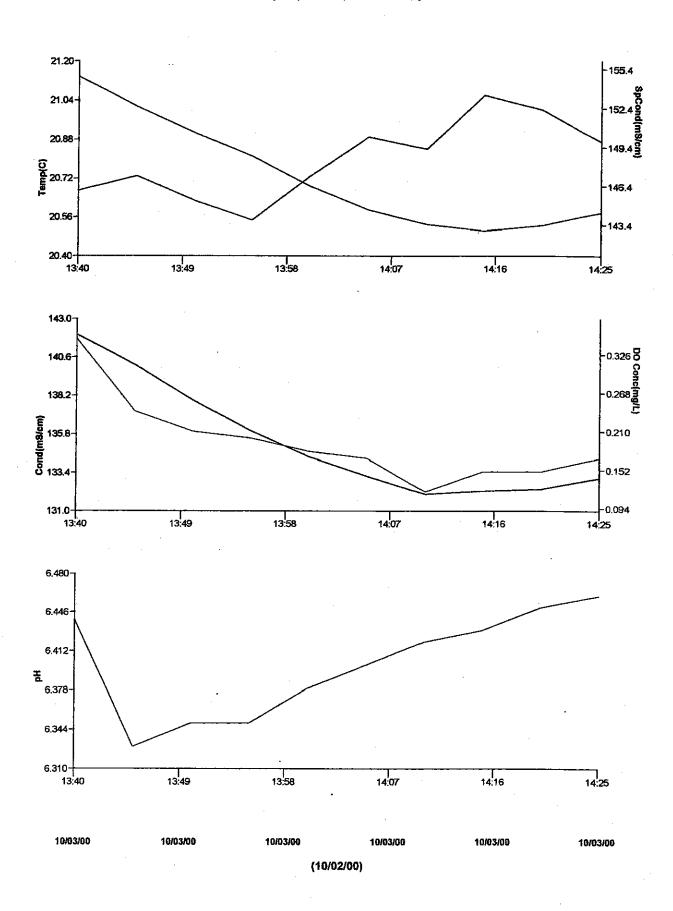
Time (Min.)	рН	Temp. (°C)	Cond.	Specific Cond.	Dissolved O <sub>2</sub> (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
13:30	6.44	20.67	142	154.8	0.35	23.6	6.73	300	
13:45	6.33	20.73	140.1	152.5	0.24	7.74	6.73	300	
13:50	6.35	20.63	137.9	150.5	0.21	5.91	6.73	300	
13:55	6.35	20.55	136	148.7	0.2	4.97	6.73	300	
14:00	6.38	20.73	134.4	146.4	0.18	4.03	6.73	300	
14:05	6.4	20.89	133.2	144.6	0.17	3.97	6.73	300	
14:10	6.42	20.84	132.1	143.5	0.12	4.4	6.73	300	
14:15	6.43	21.06	132.3	143	0.15	3.58	6.73	300	
14:20	6.45	21	132.4	143.4	0.15	2.93	6.73	300	
14:25	6.46	20.87	133.1	144.4	0.17	3.1	8.86	300	

William Co.	Turbially N 123		
1340	23.60	6.73	300
1345	7.74	6.89	300
1350	5.91	6.98	300
1355	4.97	7.15	300
1400	4,03	7.35	300
1405	3.97	7.57	300
1410	4.40	7.8	300
1415	3.58	7.94	300
1420	2.93	8.3	300
1425	3.10	8.86	300

•

### CW2MW30-2 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH



#### Cw2mw30-CW2MW30-2 Low Flow Data For Temp., Sp. Cond., Cond., D.O., pH -- Data Report --

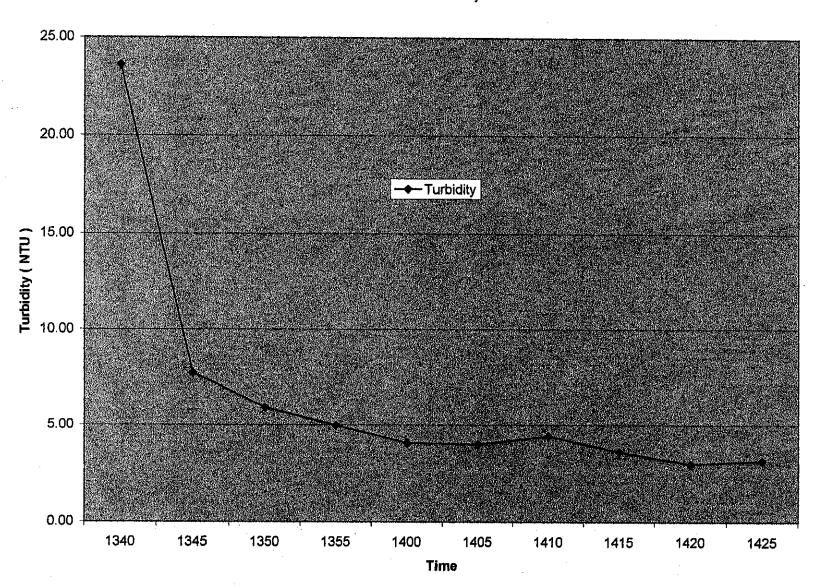
From 10/03/00 13:40 to 10/03/00 14:25

Number of samples: 10

10/02/00	Temp C		Cond mS/cm	DO Conc mg/L	Нզ
10/03/00 13 10/03/00 13 10/03/00 13 10/03/00 13 10/03/00 14	3:45 20.73 3:50 20.63 3:55 20.55	154.800 152.500 150.500 148.700 146.400	140.100 137.900 136.000	0.35 0.24 0.21 0.20 0.18	6.44 6.33 6.35 6.35 6.38
10/03/00 14 10/03/00 14 10/03/00 14 10/03/00 14	20.84 21.06	144.600 143.500 143.000 143.400	132.100 132.300	0.17 0.12 0.15 0.15	6.40 6.42 6.43 6.45
10/03/00 14	:25 20.87	144.400	133.100	0.17	6.46

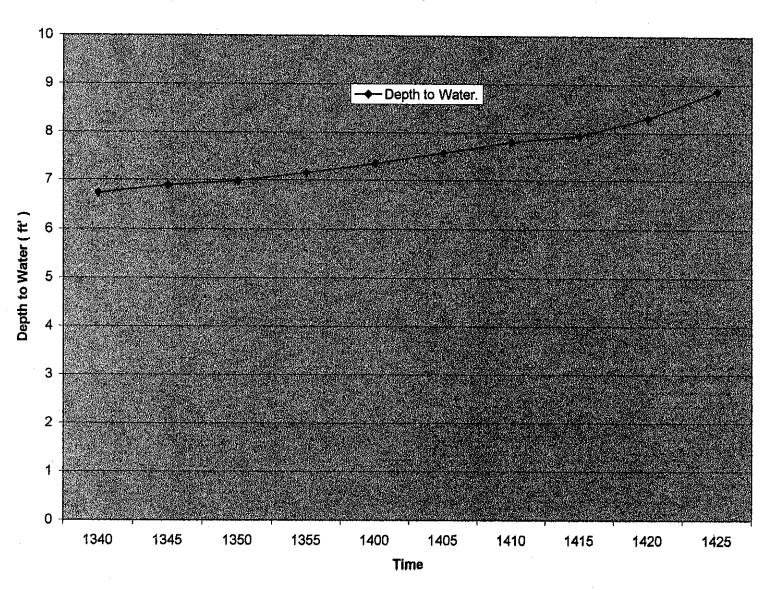
CW2MW30 Permit #: 29-32594 10/02/00

Turbidity



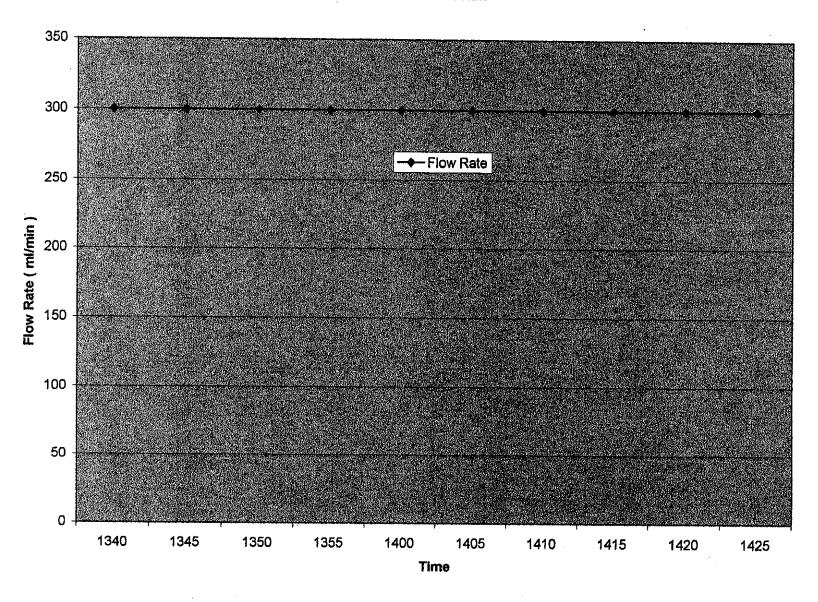
CW2MW30 Permit #: 29-32594 10/02/00

Depth to Water.



CW2MW30 Permit #: 29-32594 10/02/00





## U.S. ARMY FORT MONMOUTH MONITORING WELL SAMPLING DATA

Sonde Calibration:

Temp: N/A

pH: 7.00/10.00/4.00 Buffers

**LOCATION: CW-2 (2700)** 

MW#: 0CW2MW31

NJDEP ID#29-32595

**NJDEP CERT # 13461** 

SAMPLING CONTRACTOR: TVS

SAMPLER: David Sharpe

DATE: 10/03/00 WEATHER: Sunny

TIDE: N/A

WELL CONDITION: Good

LNAPLs: N DNAPLs: N

ELEV. OF INNER CASING SURVEY MARK: N/A ft

**INNER CASING DIA: 4 INCH DEPTH TO WATER: 7.65ft** 

Before Purge Start: 7.65 ft

Previous Day: 7.70 ft After Sampling: 7.40 ft

Hnu Calibration: Span 2.1 w/ 100 ppm Isobutylene

Sp Cond/Cond:147.0 µ ohms/cm solution (KCI)

DO: % Humidity 760mm (Barometric Pressure)

DEPTH OF WELL: 16.91 ft

DEPTH TO TOP OF SCREEN: N/A ft

DEPTH OF PUMP/TUBE INTAKE: 14.0 ft

TUBING: Food grade Polyethylene 1/4"/Silicon

HEIGHT OF WATER: 9.26 ft

 $9.26 \times .65 \times 3 = 18.06$ 

(0.65 for 4", 0.163 for 2")

GALLONS OF H2O TO BE PURGED: 18 Gal

PURGE METHOD:(FLOW at >100 TO <500 ml/Min): PERISTALTIC PUMP Purged at 290 mL/Min or Gal/Min. (mL to gal: mL (.0002642)=gal)

PURGE RATE: gpm

Hnu READING: 0 ppm (Well) Hnu READING: 0 ppm (Well Cap)

**PURGE START TIME: 8:45** 

pH 6.04 su

TEMP 19.47 °C

DISSOLVED O<sub>2</sub> 0.5 mg/L

SPECIFIC CONDUCTIVITY 266.8 ms/cm

**PURGE END TIME: 10:50** 

pH 6.34 su

TEMP 20.61 °C

DISSOLVED O<sub>2</sub> 0.09 mg/L

SPECIFIC CONDUCTIVITY 249.9 ms/cm

DEPTH TO H<sub>2</sub>O AFTER PURGE AND SAMPLING: 7.4 ft

(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 10:45

pH 6.34 su

TEMP 20.68 °C

DISSOLVED O<sub>2</sub> 0.09 mg/L

SPECIFIC CONDUCTIVITY 249.8 ms/cm

SAMPLE END TIME: 10:46 ANALYTES: TAL Metals COMMENTS: Duplicate here.

## **FIELD READINGS**

MW: 0CW2MW31 NJDEP ID#: 29-32595

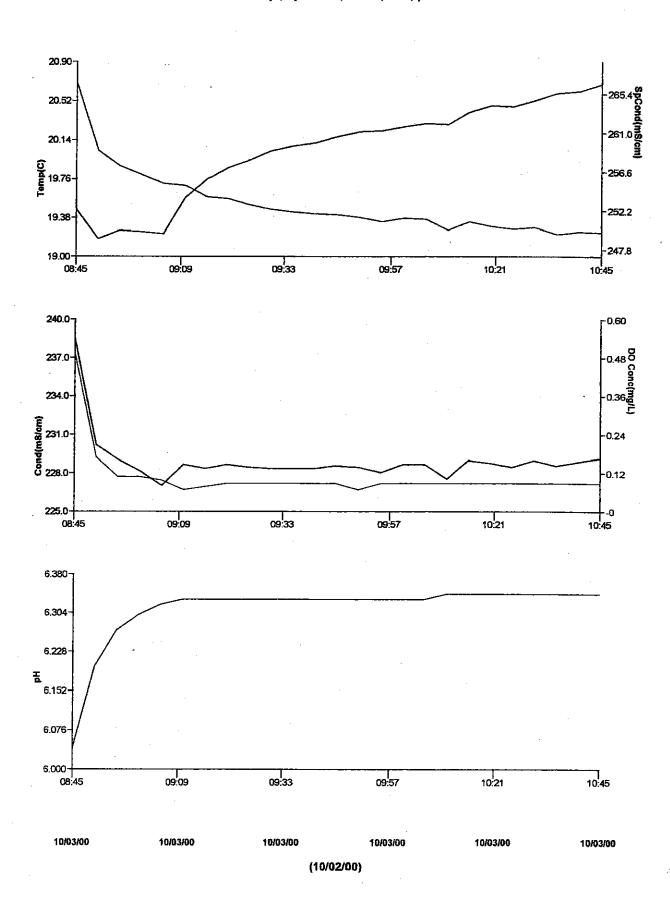
DATE: 10/03/00

Time (Min.)	рН	Temp. (°C)	Cond.	Specific Cond.	Dissolved O₂ (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
8:45	6.04	19.47	238.6	266.8	0.5	273	7.65	290	
8:50	6.2	19.18	230.2	259	0.17	69	7.65	290	
8:55	6.27	19.26	229.1	257.3	0.11	35	7.65	290	
9:00	6.3	19.25	228.2	256.3	0.11	47	7.65	290	
9:05	6.32	19.23	227.1	255.3	0.1	46.1	7.65	290	· · · · · · · · · · · · · · · · · · ·
9:10	6.33	19.58	228.7	255.1	0.07	60.8	7.65	290	
9:15	6.33	19.76	228.4	253.8	0.08	65.1	7.65	290	, , , , , , , , , , , , , , , , , , , ,
9:20	6.33	19.87	228.7	253.6	0.09	65.7	7.65	290	
9:25	6.33	19.94	228.5	252.9	0.09	73.2	7.65	290	
9:30	6.33	20.03	228.4	252.4	0.09	71.1	7.65	290	
9:35	6.33	20.08	228.4	252.1	0.09	62.7	7.65	290	
9:40	6.33	20.11	228.4	251.9	0.09	60.5	7.65	290	
9:45	6.33	20.17	228.6	251.8	0.09	60.6	7.65	290	
9:50	6.33	20.22	228.5	251.5	0.07	51.5	7.65	290	
9:55	6.33	20.23	228.1	251	0.09	43.1	7.65	290	
10:00	6.33	20.27	228.7	251.4	0.09	43.6	7.65	290	
10:05	6.33	20.3	228.7	251.3	0.09	42.3	7.65	290	
10:10	6.34	20.29	227.6	250.1	0.09	38.9	7.65	290	
10:15	6.34	20.41	229	251	0.09	39	7.65	290	
10:20	6.34	20.47	228.8	250.5	0.09	35.9	7.65	290	-
10:25	6.34	20.46	228.5	250.2	0.09	35	7.65	290	
10:30	6.34	20.52	229	250.4	0.09	33.3	7.65	290	
10:35	6.34	20.59	228.6	249.6	0.09	31.1	7.65	290	
10:40	6.34	20.61	228.9	249.9	0.09	27.7	7.65	290	
10:45	6.34	20.68	229.2	249.8	0.09	34.7	7.65	290	

A finis	i se di la companya di la companya di la companya di la companya di la companya di la companya di la companya	Mileoff to Weight for	A State Realization of
845	273.00	7.65	290
850	69.00	7.65	290
855	35.00	7.65	290
900	47.00	7.65	290
905	46.10	7.65	290
910	60.80	7.65	290
915	65.10	7.65	290
920	65.70	7.65	290
925	73.20	7.65	290
930	71.10	7.65	290
935	62.70	7.65	290
940	60,50	7.65	290
945	60.60	7.6	290
950	51.50	7.6	290
955	43.10	7.6	290
1000	43,60	7.6	290
1005	42.30	7.6	290
1010	38.90	7.6	290
1015	39	7.55	290
1020	35.9	7.55	290
1025	35	7.55	290
1030	33,3	7.55	290
1035	31.1	7.5	290
1040	27.7	7.5	290
1045	34.7	7.4	290

### CW2MW31-2 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH



#### Cw2mw31-CW2MW31-2 Low Flow Data For Temp., Sp. Cond., Cond., D.O., pH -- Data Report --

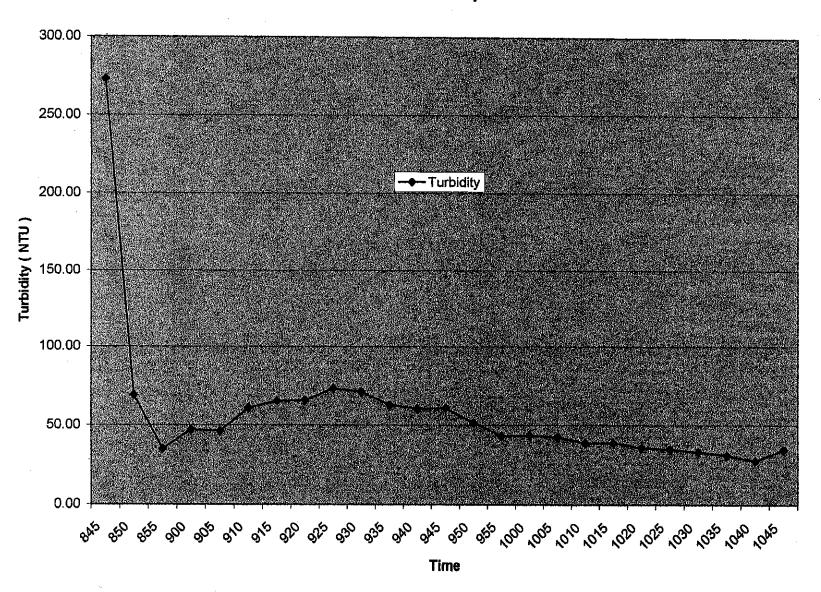
From 10/03/00 08:45 to 10/03/00 10:45

Number of samples: 25

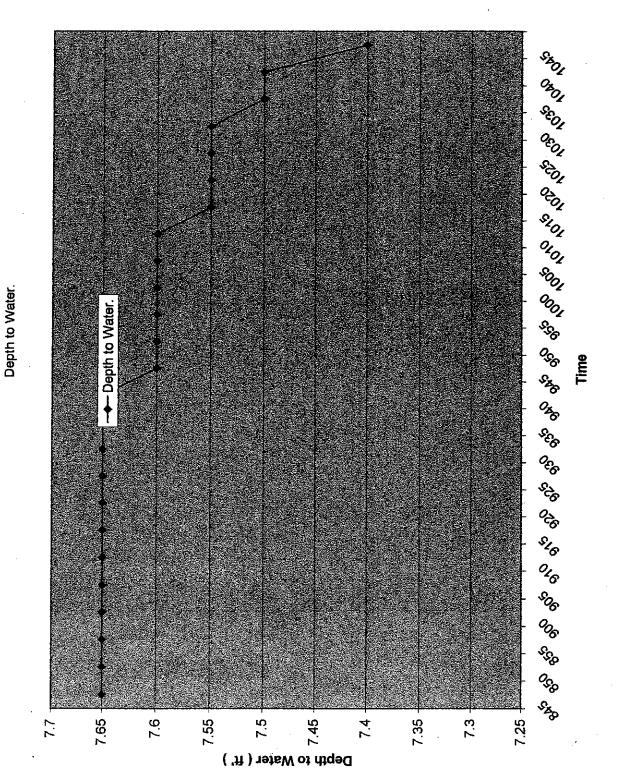
Temp SpCond Cond DO Conc 10/02/00	
10/03/00 08:5019.18 259.000 230.2000.176.10/03/00 08:5519.26 257.300 229.1000.116.10/03/00 09:0019.25 256.300 228.2000.116.10/03/00 09:0519.23 255.300 227.1000.106.	10/02/00
10/03/00       09:15       19.76       253.800       228.400       0.08       6.10/03/00       6.10/03/00       09:20       19.87       253.600       228.700       0.09       6.10/03/00       09:25       19.94       252.900       228.500       0.09       6.10/03/00       09:30       20.03       252.400       228.400       0.09       6.10/03/00       09:35       20.08       252.100       228.400       0.09       6.10/03/00       09:40       20.11       251.900       228.400       0.09       6.10/03/00       0.09	10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00
10/03/00 10:25       20.46 250.200 228.500       0.09       6.         10/03/00 10:30       20.52 250.400 229.000       0.09       6.         10/03/00 10:35       20.59 249.600 228.600       0.09       6.         10/03/00 10:40       20.61 249.900 228.900       0.09       6.         10/03/00 10:45       20.68 249.800 229.200       0.09       6.	10/03/00 10/03/00 10/03/00

CW2MW31 Permit #: 29-32595 10/02/00

#### Turbidity

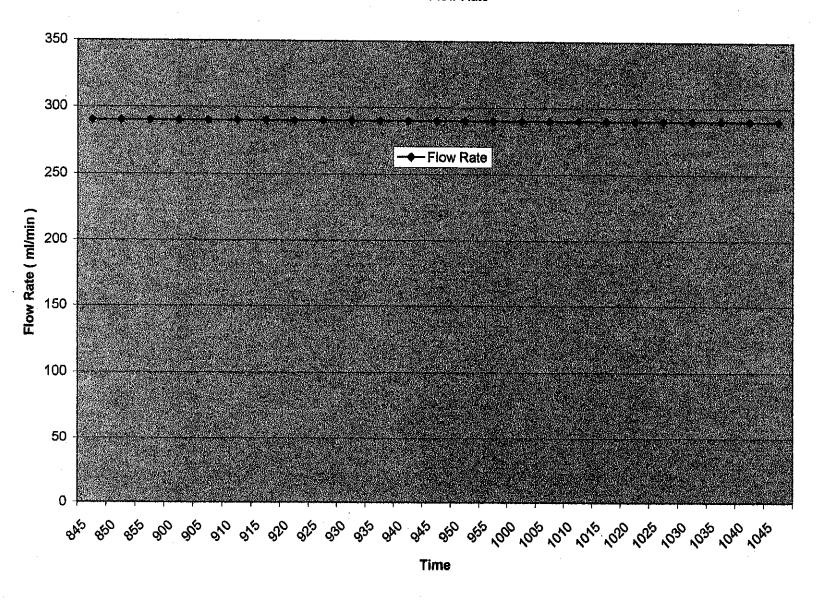


CW2MW31 Permit #: 29-32595 10/02/00



CW2MW31 Permit #: 29-32595 10/02/00

#### Flow Rate



Sonde Calibration:

Temp: N/A

**LOCATION: CW-2 (2700)** 

MW#: 0CW2MW32

NJDEP ID#29-32596

**NJDEP CERT # 13461** 

SAMPLING CONTRACTOR: TVS

SAMPLER: David Sharpe

DATE: 10/03/00

WEATHER: Sunny, Warm

TIDE: N/A

WELL CONDITION: Good

LNAPLs: N DNAPLs: N

ELEV. OF INNER CASING SURVEY MARK: N/A ft

INNER CASING DIA: 4 INCH **DEPTH TO WATER: 7.2ft** 

Previous Day: 7.25 ft Before Purge Start: 7.2 ft

After Sampling: 9.14 ft

pH: 7.00/10.00/4.00 Buffers

Hnu Calibration: Span 1.8 w/ 100 ppm Isobutylene

Sp Cond/Cond:147.0 \( \mu\) ohms/cm solution (KCl) DO: % Humidity 760mm (Barometric Pressure)

DEPTH OF WELL: 16.89 ft

DEPTH TO TOP OF SCREEN: N/A ft

DEPTH OF PUMP/TUBE INTAKE: 14.0 ft

TUBING: Food grade Polyethylene 1/4"/Silicon

HEIGHT OF WATER: 9.69 ft

 $9.69 \times .65 \times 3 = 18.90$ 

(0.65 for 4", 0.163 for 2")

GALLONS OF H2O TO BE PURGED: 19 Gal

PURGE METHOD:(FLOW at >100 TO <500 ml/Min): PERISTALTIC PUMP

Purged at 290 mL/Min or Gal/Min. (mL to gal; mL (.0002642)=gal)

PURGE RATE: gpm

Hnu READING: 0 ppm (Well) Hnu READING: 0 ppm (Well Cap)

**PURGE START TIME: 11:20** 

pH 6.47 su

TEMP 20.49 °C

DISSOLVED O<sub>2</sub> 0.15 mg/L.

SPECIFIC CONDUCTIVITY 268.3 ms/cm

PURGE END TIME: 12:50

pH 6.78 su

TEMP 21.43 °C

DISSOLVED O<sub>2</sub> 1.05 mg/L

SPECIFIC CONDUCTIVITY 231.5 ms/cm

DEPTH TO H<sub>2</sub>O AFTER PURGE AND SAMPLING: 9.14 ft

(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 12:45

pH 6.78 su

TEMP 21.43 °C

DISSOLVED O<sub>2</sub> 1.01 mg/L

SPECIFIC CONDUCTIVITY 230.7 ms/cm

SAMPLE END TIME: 12:49 ANALYTES: TAL Metals

COMMENTS:

## **FIELD READINGS**

MW: 0CW2MW32 NJDEP ID#: 29-32596

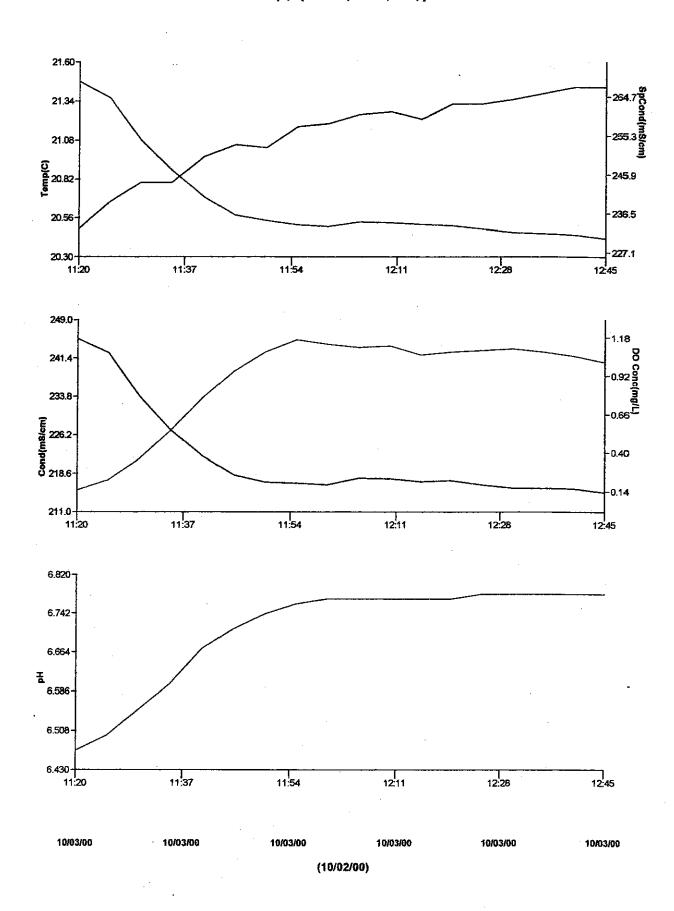
DATE: 10/03/00

Time (Min.)	рН	Temp. (°C)	Cond.	Specific Cond.	Dissolved O <sub>2</sub> (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
11:20	6.47	20.49	245.2	268.3	0.15	35.3	7.2	290	
11:25	6.5	20.67	242.4	264.3	0.22	19.1	7.2	290	
11:30	6.55	20.8	233.9	254.3	0.36	18.4	7.2	290	
11:35	6.6	20.8	227.2	247	0.55	12.8	7.2	290	
11:40	6.67	20.97	222.1	246.6	0.77	12.1	7.2	290	
11:45	6.71	21.05	218.4	236.2	0.95	12	7.2	290	
11:50	6.74	21.03	217	234.9	1.08	11	7.2	290	
11:55	6.76	21.17	216.8	233.9	1.16	13.4	7.2	290	
12:00	6.77	21.19	216.5	233.5	1.13	10.4	7.2	290	
12:05	6.77	21.25	217.8	234.6	1.11	10.8	7.2	290	
12:10	6.77	21.27	217.7	234.4	1.12	11.7	7.2	290	
12:15	6.77	21.22	217.1	234	1.06	11.4	7.2	290	
12:20	6.77	21.32	217.3	233.7	1.08	10.1	7.2	290	
12:25	6.78	21.32	216.5	232.9	1.09	11.6	7.2	290	
12:30	6.78	21.35	215.9	232.1	1.1	10.5	7.2	290	
12:35	6.78	21.39	215.8	231.8	1.08	9.25	7.2	290	
12:40	6.78	21.43	215.7	231.5	1.05	9.29	7.2	290	
12:45	6.78	21.43	215	230.7	1.01	10.4	7.2	290	

Tine		Magnifications	a Più de Rapa (Più diante) de
1120	35.30	7.2	290
1125	19.10	7.3	290
1130	18.40	7.4	290
1135	12.80	7.65	290
1140	12.10	7.75	290
1145	12.00	7.9	290
1150	11.00	8.05	290
1155	13.40	8.2	290
1200	10.40	8.35	290
1205	10.80	8.48	290
1210	11.70	8.55	290
1215	11.40	8.65	290
1220	10.10	8.7	290 <sup>-</sup>
1225	11.60	8.9	290
1230	10.50	9	290
1235	9.25	9.05	290
1240	9.29	9.1	290
1245	10.40	9.14	290

### CW2MW32-2 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH



#### Cw2mw32-CW2MW32-2 Low Flow Data For Temp., Sp. Cond., Cond., D.O., pH

-- Data Report --

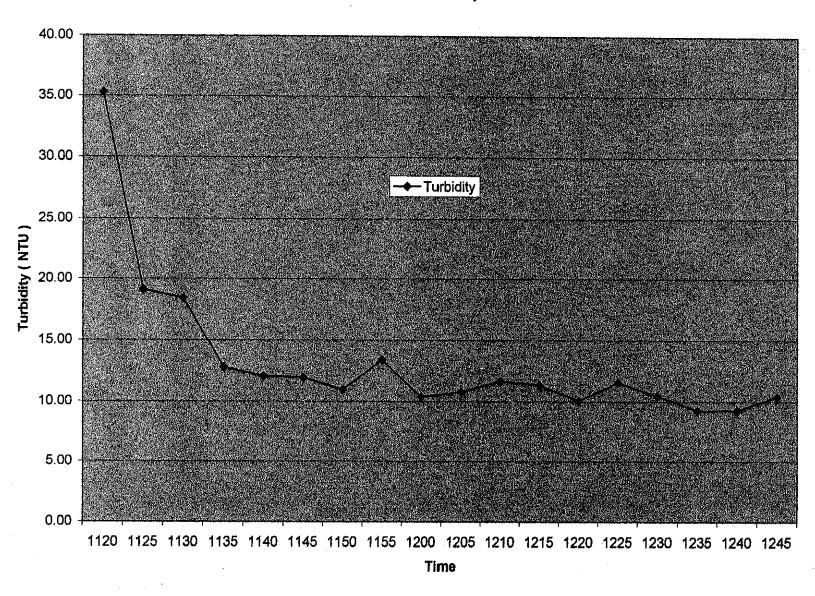
Ener 10/03/00 11-20 to 10/03/00 10-45

From 10/03/00 11:20 to 10/03/00 12:45

Number of samples: 18 Temp SpCond Cond DO Conc рН 10/02/00 C mS/cm mS/cm mg/L 10/03/00 11:20 20.49 268.300 245.200 0.15 6.47 10/03/00 11:25 20.67 264.300 242.400 0.22 6.50 10/03/00 11:30 20.80 254.300 233.900 0.36 6.55 10/03/00 11:35 20.80 247.000 227.200 0.55 6.60 10/03/00 11:40 20.97 240.600 222.100 0.77 6.67 10/03/00 11:45 21.05 236.200 218.400 0.95 6.71 10/03/00 11:50 21.03 234.900 217.000 1.08 6.74 10/03/00 11:55 21.17 233.900 216.800 1.16 6.76 10/03/00 12:00 21.19 233.500 216.500 1.13 6.77 10/03/00 12:05 21.25 234.600 217.800 1.11 6.77 10/03/00 12:10 21.27 234.400 217.700 1.12 6.77 10/03/00 12:15 21.22 234.000 217.100 1.06 6.77 10/03/00 12:20 21.32 233.700 217.300 1.08 6.77 10/03/00 12:25 21.32 232.900 216.500 6.78 1.09 10/03/00 12:30 21.35 232.100 215.900 1.10 6.78 10/03/00 12:35 21.39 231.800 215.800 1.08 6.78 10/03/00 12:40 21.43 231.500 215.700 6.78 1.05 10/03/00 12:45 21.43 230.700 215.000 1.01 6.78

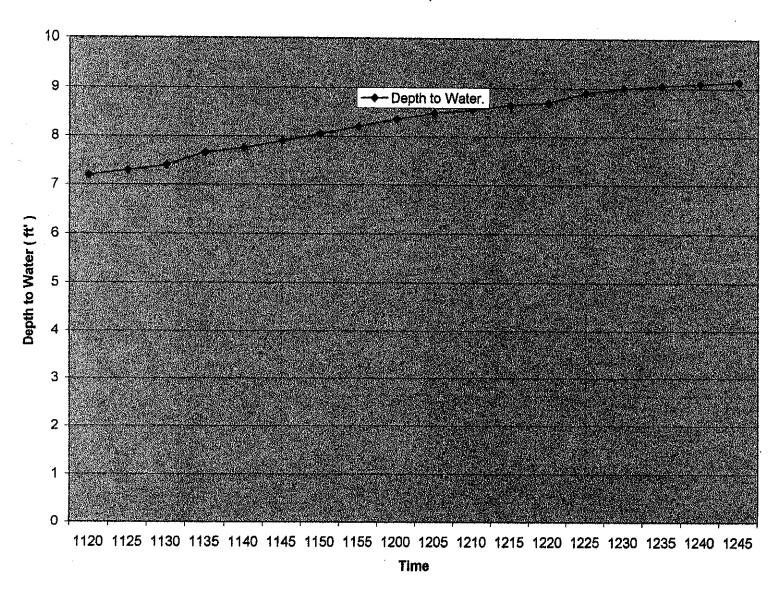
#### CW2MW32 Permit #: 29-32596 10/02/00

Turbidity



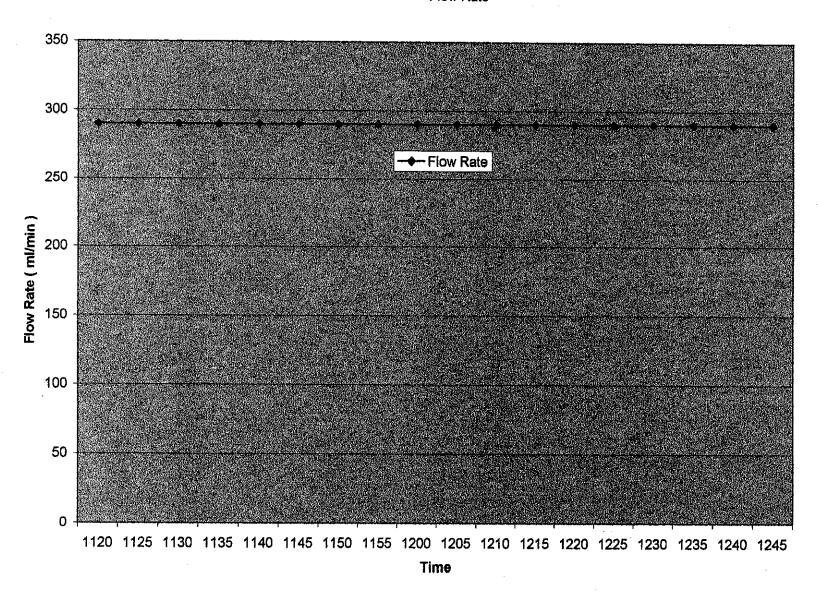
#### CW2MW32 Permit #: 29-32596 10/02/00

### Depth to Water.



#### CW2MW32 Permit #: 29-32596 10/02/00

#### Flow Rate



Sonde Calibration:

Temp: N/A

pH: 7.00/10.00/4.00 Buffers

**LOCATION: CW-2 (2700)** 

MW#: 0CW2MW33

NJDEP ID#29-32597

NJDEP CERT # 13461

SAMPLING CONTRACTOR: TVS

SAMPLER: David Sharpe

DATE: 10/03/00

WEATHER: Overcast, Warm

TIDE: N/A

WELL CONDITION: Good

LNAPLs: N DNAPLs: N

ELEV. OF INNER CASING SURVEY MARK: N/A ft

**INNER CASING DIA: 4 INCH DEPTH TO WATER: 8.85ft** 

Before Purge Start: 8.85 ft

Previous Day: 8.90 ft

After Sampling: 8,90 ft

TUBING: Food grade Polyethylene 1/4"/Silicon

Hnu Calibration: Span 0 w/ 100 ppm Isobutylene

Sp Cond/Cond:147.0 µ ohms/cm solution (KCl)

DO: % Humidity 760mm (Barometric Pressure)

DEPTH OF WELL: 16,10 ft

DEPTH TO TOP OF SCREEN: N/A ft

DEPTH OF PUMP/TUBE INTAKE: ft

HEIGHT OF WATER: 7.25 ft  $7.25 \times .65 \times 3 = 14.14$ 

GALLONS OF H2O TO BE PURGED: 14 Gal

PURGE METHOD:(FLOW at >100 TO <500 ml/Min): PERISTALTIC PUMP

Purged at 380 mL/Min or Gal/Min. (mL to gal: mL (.0002642)=gal)

PURGE RATE: gpm

Hnu READING: 0 ppm (Well) Hnu READING: 0 ppm (Well Cap)

**PURGE START TIME: 14:50** 

pH 6.18 su

TEMP 20.28 °C

(0.65 for 4", 0.163 for 2")

DISSOLVED O<sub>2</sub> 1.10 mg/L

SPECIFIC CONDUCTIVITY 153.9 ms/cm

PURGE END TIME: 15:55

pH 5.98 su

TEMP 19.54 °C

DISSOLVED O2 0.16 mg/L

SPECIFIC CONDUCTIVITY 207.9 ms/cm

DEPTH TO H<sub>2</sub>O AFTER PURGE AND SAMPLING: 8.9 ft

(SAMPLING METHOD: Through pump, Tubing with flow cell disconnected.)

SAMPLE START TIME: 15:50

pH 5.98 su

DISSOLVED O<sub>2</sub> 0.15 mg/L

TEMP 19.55 °C

SPECIFIC CONDUCTIVITY 213.9 ms/cm

SAMPLE END TIME: 15:54 ANALYTES: TAL Metals

COMMENTS:

## FIELD READINGS

MW: 0CW2MW33 NJDEP ID#: 29-32597

DATE: 10/03/00

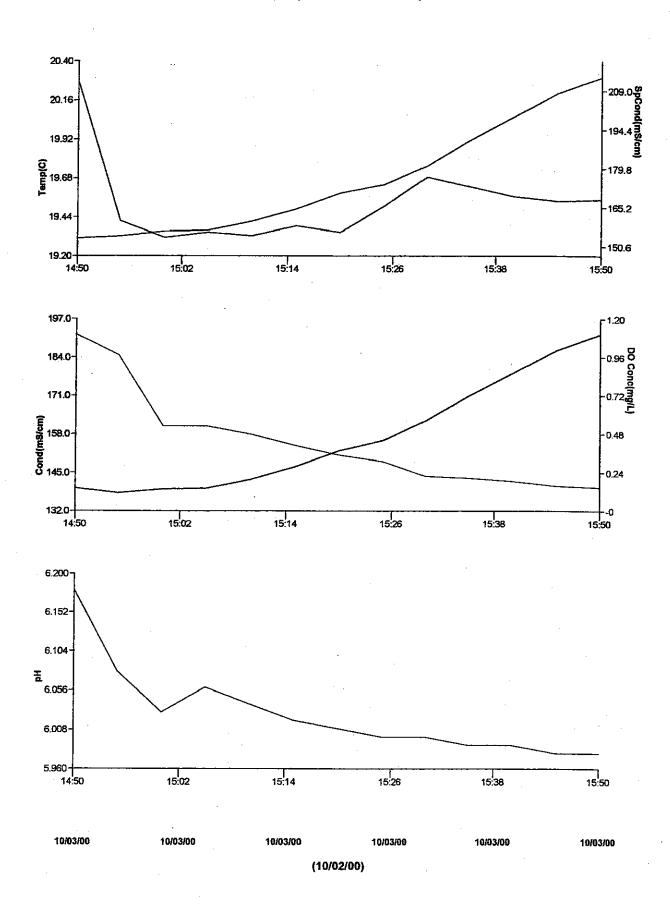
Time (Min.)	рН	Temp. (°C)	Cond.	Specific Cond.	Dissolved O <sub>2</sub> (mg/L)	Turbidity (NTU)	Depth to Water (ft)	Flow Rate (ml/Min)	Notes
14:50	6.18	20.28	140	153.9	1.1	353	8.85	380	
14:55	6.08	19.42	138.3	154.7	0.97	305	8.85	380	<del></del>
15:00	6.03	19.32	139.6	156.6	0.53	195	8.85	380	
15:05	6.06	19.35	139.9	156.9	0.53	167	8.85	380	
15:10	6.04	19.35	142.8	160.2	0.48	137	8.85	380	
15:15	6.02	19.39	147.1	164.8	0.41	116	8.85	380	
15:20	6.01	19.35	152.4	170.8	0.35	89.9	8.85	380	<del></del>
15:25	6	19.51	155.8	174	0.31	68.4	8.85	380	<del></del>
15:30	6	19.69	162.6	180.9	0.22	49.4	8.85	380	
15:35	5.99	19.63	170.9	190.5	0.21	42.9	8.85	380	<del></del>
15:40	5.99	19.57	178.4	199	0.19	37.1	8.85	380	
15:45	5.98	19.54	186.2	207.9	0.16	30.4	8.85	380	
15:50	5.98	19.55	191.6	213.9	0.15	27.9	8.85	380	

		Total de la la la la la la la la la la la la la	Parameter (m/m)
1450	353.00	8.85	380
1455	305.00	8.85	380
1500	195.00	8.85	380
1505	167.00	8.85	380
1510	137.00	8.85	380
1515	116.00	8,85	380
1520	89.90	8.85	380
1525	68.40	8.85	380
1530	49.40	8.85	380
1535	42.90	8.9	380
1540	37.10	8.9	380
1545	30.40	8.9	380
1550	27.90	8.9	380
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### CW2MW33-2 Low Flow Data For

Temp., Sp. Cond., Cond., D.O., pH



#### Cw2mw33-CW2MW33-2 Low Flow Data For Temp., Sp. Cond., Cond., D.O., pH -- Data Report --

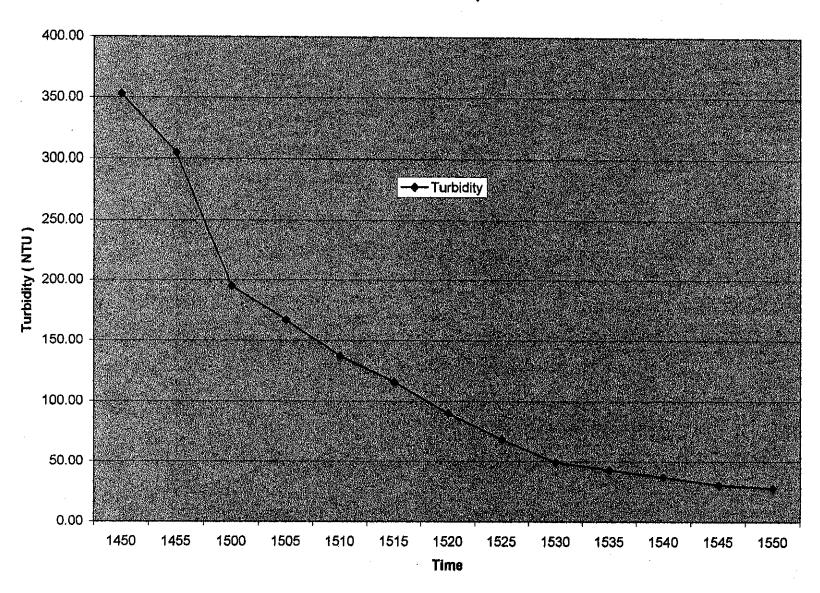
From 10/03/00 14:50 to 10/03/00 15:50

Number of samples: 13

10/02/00		Temp C	SpCond mS/cm	Cond mS/cm	DO Conc mg/L	рн
10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00 10/03/00	14:55 15:00 15:05 15:10 15:15 15:20 15:25 15:30 15:35	19.42 19.32 19.35 19.33 19.39 19.35 19.51 19.69	156.600 156.900 160.200 164.800 170.800 174.000 180.900 190.500	138.300 139.600 139.900 142.800 147.100 152.400 155.800 162.600 170.900	1.10 0.97 0.53 0.53 0.48 0.41 0.35 0.31 0.22 0.21	6.18 6.08 6.03 6.06 6.04 6.02 6.01 6.00 6.00
10/03/00 10/03/00 10/03/00	15:45	19.54	207.900 213.900	186.200	0.19 0.16 0.15	5.99 5.98 5.98

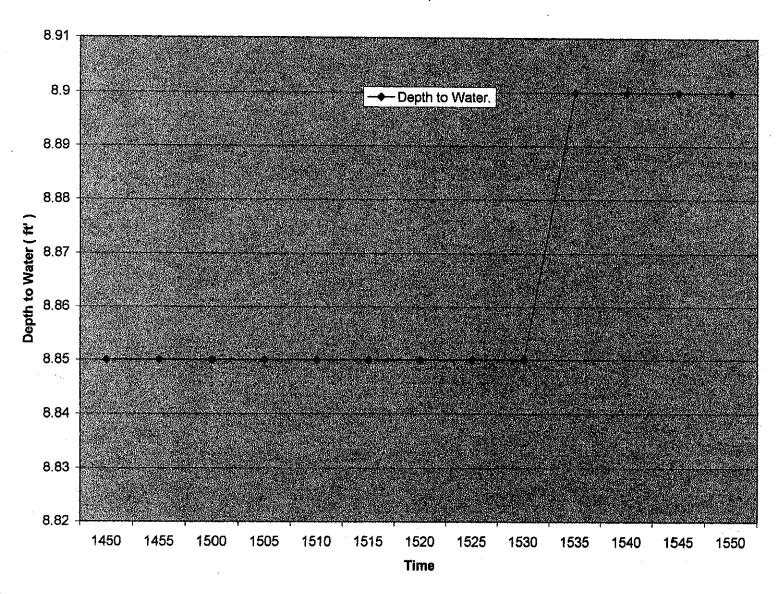
CW2MW33 Permit #: 29-32597 10/02/00

Turbidity



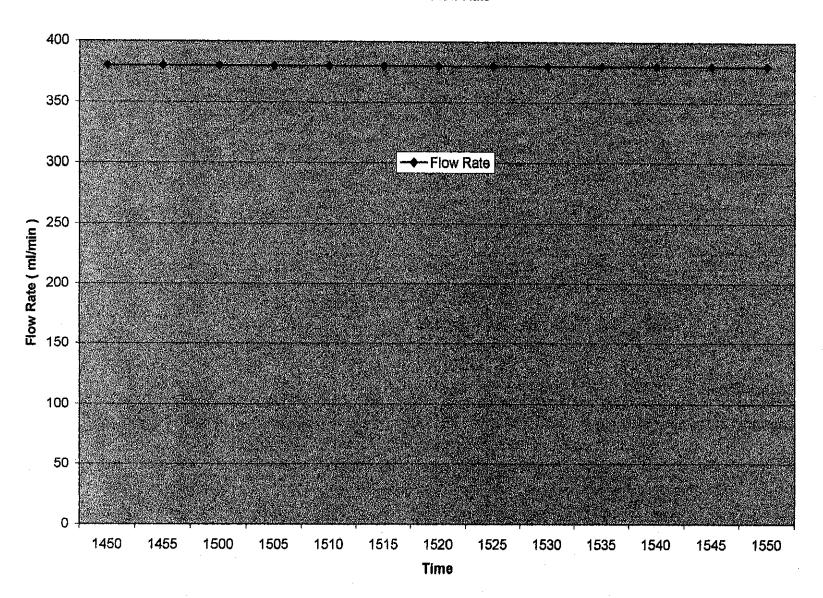
CW2MW33 Permit #: 29-32597 10/02/00

Depth to Water.



CW2MW33 Permit #: 29-32597 10/02/00

Flow Rate



# METALS

## U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

Lab ID #: 5765 DPW, SELFM-PW-EV Sample Prepared: 10/04/00

Bldg. 173

Ft. Monmouth, NJ 07703

Site: CW2

Field ID#: Method Blank

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/12/00	41.2	200	10.0
Antimony	10/12/00	ND	20	2.0
Arsenic	10/12/00	ND	8	2.0
Barium	10/12/00	ND	2000	0.5
Beryllium	10/12/00	ND	20	0.5
Cadmium	10/12/00	ND	4	0.5
Calcium	10/12/00	107	NLE	20.0
Chromium	10/12/00	0.616	100	0.5
Cobalt	10/12/00	ND	NLE	0.5
Copper	10/12/00	39.6	1000	2.0
Iron	10/12/00	ND	300	2.0
Lead	10/12/00	ND	10	1.0
Magnesium	10/12/00	45.2	NLE	10.0
Manganese	10/12/00	ND	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/12/00	3.84	100	1.0
Potassium	10/12/00	ND	NLE	40.0
Selenium	10/12/00	ND	50	3.0
Silver	10/12/00	ND	20	1.0
Sodium	10/12/00	708	50000	20.0
Thallium	10/12/00	ND	10	2.0
Vanadium	10/12/00	ND	NLE	0.5
Zinc	10/12/00	12.1	5000	5.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

Lab ID #: 5765.01

DPW, SELFM-PW-EV

Sample Received: 10/03/00

Bldg. 173

Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

Site:

CW2

Field ID#: FB

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/12/00	ND	200	10.0
Antimony	10/12/00	ND	20	2.0
Arsenic	10/12/00	ND	8	2.0
Barium	10/12/00	ND	2000	0.5
Beryllium	10/12/00	ND	20	0.5
Cadmium	10/12/00	ND	4	0.5
Calcium	10/12/00	ND	NLE	20.0
Chromium	10/12/00	ND	100	0.5
Cobalt	10/12/00	ND	NLE	0.5
Соррег	10/12/00	ND	1000	2.0
Iron	10/12/00	35.6	300	2.0
Lead	10/12/00	ND	10	1.0
Magnesium	10/12/00	ND	NLE	10.0
Manganese	10/12/00	ND	50	0.5
Mercury	10/17/00	ND	2 .	0.1
Nickel	10/12/00	ND	100	1.0
Potassium	10/12/00	ND	NLE	40.0
Selenium	10/12/00	ND	50	3.0
Silver	10/12/00	ND	20	1.0
Sodium	10/12/00	ND	50000	20.0
Thallium	10/12/00	ND	10	2.0
Vanadium	10/12/00	ND	NLE	0.5
Zinc	10/12/00	ND	5000	5.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5765.03

Sample Received: 10/03/00

Sample Matrix: Aqueous

Site: CW2

Field ID#: FD

#### TAL-METALS RESULTS SUMMARY (ug/L)

<del></del>			
Date of	Result	Regulatory	MDL
Analysis	(ug/L)	Level (ug/L)*	(ug/L)
10/12/00	26.5	200	10.0
10/12/00	ND	20	2.0
10/12/00	ND	8	2.0
10/12/00	238	2000	0.5
10/12/00	ND	20	0.5
10/12/00	ND	4	0.5
10/12/00	51600	NLE	20.0
10/12/00	1.83	100	0.5
10/12/00	ND	NLE	0.5
10/12/00	65.4	1000	2.0
10/12/00	66500	300	2.0
10/12/00	ND	10	1.0
10/12/00	6360	NLE	10.0
10/12/00	277	50	0.5
10/17/00	ND	2	0.1
10/12/00	ND	100	1.0
10/12/00	10400	NLE	40.0
10/12/00	ND	50	3.0
10/12/00	ND	20	1.0
10/12/00	12000	50000	20.0
10/12/00	ND	10	2.0
10/12/00	1.46	NLE	0.5
10/12/00	23.3	5000	5.0
	Analysis 10/12/00	Analysis (ug/L) 10/12/00 26.5 10/12/00 ND 10/12/00 ND 10/12/00 ND 10/12/00 ND 10/12/00 ND 10/12/00 ND 10/12/00 ND 10/12/00 1.83 10/12/00 ND 10/12/00 ND 10/12/00 65.4 10/12/00 65.4 10/12/00 ND	Analysis         (ug/L)         Level (ug/L)*           10/12/00         26.5         200           10/12/00         ND         20           10/12/00         ND         8           10/12/00         238         2000           10/12/00         ND         20           10/12/00         ND         4           10/12/00         51600         NLE           10/12/00         51600         NLE           10/12/00         1.83         100           10/12/00         ND         NLE           10/12/00         65.4         1000           10/12/00         66500         300           10/12/00         ND         10           10/12/00         6360         NLE           10/12/00         ND         2           10/12/00         ND         100           10/12/00         ND         50           10/12/00         ND         50           10/12/00         ND         20           10/12/00         ND         20           10/12/00         ND         50000           10/12/00         ND         10           10/12/00         <

## **Report of Analysis** U.S. Army, Fort Monmouth Environmental Laboratory

**NJDEP Certification # 13461** 

Client: U.S. Army

CW2

Site:

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5765.02

Field ID#: CW2MW31

Sample Received: 10/03/00

Sample Matrix: Aqueous

TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
Diomont	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/12/00	38.5	200	10.0
Antimony	10/12/00	ND	20	2.0
Arsenic	10/12/00	ND	8	2.0
Barium	10/12/00	235	2000	0.5
Beryllium	10/12/00	ND	20	0.5
Cadmium	10/12/00	ND	4	0.5
Calcium	10/12/00	50500	NLE	20.0
Chromium	10/12/00	1.11	100	0.5
Cobalt	10/12/00	ND	NLE	0.5
Copper	10/12/00	11.8	1000	2.0
Iron	10/12/00	65000	300	2.0
Lead	10/12/00	ND	10	1.0
Magnesium	10/12/00	6230	NLE	10.0
Manganese	10/12/00	275	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/12/00	ND	100	1.0
Potassium	10/12/00	10100	NLE	40.0
Selenium	10/12/00	ND	50	3.0
Silver	10/12/00	ND	20	1.0
Sodium	10/12/00	11900	50000	20.0
Thallium	10/12/00	ND	10	2.0
Vanadium	10/12/00	1.65	NLE	0.5
Zinc	10/12/00	15.0	5000	5.0

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5765.04

Sample Received: 10/03/00

Sample Matrix: Aqueous

Site: CW2

Field ID#: CW2MW32

#### TAL-METALS RESULTS SUMMARY (ug/L)

Date of	Result	Regulatory	MDL
Analysis	(ug/L)	Level (ug/L)*	(ug/L)
10/12/00	35.1	200	10.0
10/12/00	ND	20	2.0
10/12/00	ND	8	2.0
10/12/00	34.1	2000	0.5
10/12/00	ND	20	0.5
10/12/00	ND	4	0.5
10/12/00	103000	NLE	20.0
10/12/00	1.85	100	0.5
10/12/00	ND	NLE	0.5
10/12/00	59.3	1000	2.0
10/12/00	1630	300	2.0
10/12/00	ND	10	1.0
10/12/00	9530	NLE :	10.0
10/12/00	4.59	50	0.5
10/17/00	ND	2	0.1
10/12/00	4.42	100	1.0
10/12/00	4160	NLE	40.0
10/12/00	ND	50	3.0
10/12/00	ND	20	1.0
10/12/00	18100	50000	20.0
10/12/00	ND	10	2.0
10/12/00	3.05	NLE	0.5
10/12/00	72.8	5000	5.0
	Analysis 10/12/00	Analysis (ug/L) 10/12/00 35.1 10/12/00 ND 10/12/00 ND 10/12/00 ND 10/12/00 ND 10/12/00 ND 10/12/00 ND 10/12/00 ND 10/12/00 103000 10/12/00 ND 10/12/00 ND 10/12/00 ND 10/12/00 S9.3 10/12/00 ND	Analysis   (ug/L)   Level (ug/L)*   10/12/00   35.1   200   10/12/00   ND   20   10/12/00   ND   8   10/12/00   ND   34.1   2000   10/12/00   ND   20   10/12/00   ND   4   10/12/00   ND   4   10/12/00   1.85   100   NLE   10/12/00   ND   NLE   10/12/00   ND   NLE   10/12/00   59.3   1000   10/12/00   Sp.3   1000   10/12/00   ND   10   10/12/00   ND   10   10/12/00   ND   10   10/12/00   9530   NLE   10/12/00   9530   NLE   10/12/00   4.59   50   10/17/00   ND   2   10/12/00   4.42   100   10/12/00   4.60   NLE   10/12/00   A160   NLE   10/12/00   ND   50   10/12/00   ND   50   10/12/00   ND   20   10/12/00   ND   20   10/12/00   ND   10   10/12/00   ND   10   10/12/00   ND   10   10/12/00   ND   10   10/12/00   ND   10   10/12/00   ND   10   10/12/00   NLE   NLE

## U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

Lab ID #: 5765.05

DPW, SELFM-PW-EV

Sample Received: 10/03/00

Bldg. 173

Ft. Monmouth, NJ 07703

Sample Matrix: Aqueous

Site:

CW2

Field ID#: CW2MW30

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/12/00	39.5	200	10.0
Antimony	10/12/00	ND	20	2.0
Arsenic	10/12/00	ND	8	2.0
Barium	10/12/00	51.9	2000	0.5
Beryllium	10/12/00	ND	20	0.5
Cadmium	10/12/00	ND	4	0.5
Calcium	10/12/00	64600	NLE	20.0
Chromium	10/12/00	2.06	100	0.5
Cobalt	10/12/00	ND	NLE	0.5
Copper	10/12/00	25.1	1000	2.0
Iron	10/12/00	834 ·	300	2.0
Lead	10/12/00	ND	10	1.0
Magnesium	10/12/00	4540	NLE	10.0
Manganese	10/12/00	7.75	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/12/00	4.67	100	1.0
Potassium	10/12/00	9160	NLE	40.0
Selenium	10/12/00	ND	50	3.0
Silver	10/12/00	ND	20	1.0
Sodium	10/12/00	9420	50000	20.0
Thallium	10/12/00	ND	10	2.0
Vanadium	10/12/00	2.09	NLE	0.5
Zinc	10/12/00	18.7	5000	5.0

# Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5765.06

Sample Received: 10/03/00

Sample Matrix: Aqueous

Site: CW2

Field ID#: CW2MW33

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/12/00	31.9	200	10.0
Antimony	10/12/00	ND	20	2.0
Arsenic	10/12/00	ND	8	2.0
Barium	10/12/00	175	2000	0.5
Beryllium	10/12/00	ND	20	0.5
Cadmium	10/12/00	ND	4	0.5
Calcium	10/12/00	51600	NLE	20.0
Chromium	10/12/00	2.63	100	0.5
Cobalt	10/12/00	ND	NLE	0.5
Copper	10/12/00	28.9	1000	2.0
Iron	10/12/00	45500	300	2.0
Lead	10/12/00	ND	10	1.0
Magnesium	10/12/00	5490	NLE	10.0
Manganese	10/12/00	257	50	0.5
Мегсигу	10/17/00	ND	2	0.1
Nickel	10/12/00	2.69	100	1.0
Potassium	10/12/00	10200	NLE	40.0
Selenium	10/12/00	ND	50	3.0
Silver	10/12/00	ND	20	1.0
Sodium	10/12/00	9890	50000	20.0
Thallium	10/12/00	ND	10	2.0
Vanadium	10/12/00	1.34	NLE	0.5
Zinc	10/12/00	36.8	5000	5.0

# FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT FOR Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

#### SAMPLE LOCATION AND IDENTIFICATION

SITE: CW-2

LABORATORY ID #	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE		
5784.04	0CW2MW30	29-32594	10/12/00		
5784.05	0CW2MW31	29-32595	10/12/00		
5784.06	0CW2MW32	29-32596	10/12/00		
5784.07	0CW2MW33	29-32597	10/12/00		

NJDEP Laboratory Certification # 13461

Daniel Wright/Date: Laboratory Director

## METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18 <sup>th</sup> ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136
Base/Neutrals and Acid	Appendix A 625
Extractables by GC/MS	023
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608



## Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil

NJDEP Certification #13461

**Chain of Custody Record** 

Customer: J.#	FALLON	Project No:				Analysis Parameters							Comments:			
Phone #: X2(1223 Location: Cw2				,			57.	8	٧.					11/1 /11/20 /24%		
(VDERA ()OMA ()Other:			artr a	00	10 +18 TML MTLS		8	7			777		HCL/HNO3/24°C			
Samplers Name / Cor	mpany: Cores M. Corn	rack T	rack, TUS S		e #	+	7 4	7	BNM +25				7 1	·		
Lab Sample I.D.	Sample Location	Date Time		Туре	Type bottles		F	93	2	6	20				工	Remarks / Preservation Method
5784 .01	Trip	10/12/0	0710	AQ	2	<u></u>							_			
,02	Field Blank		0815		5	1	~	-					-			
.03	Dupe				5	1			~				-			
.04	0C42 MW36		0922		5	/	~	/					0,0	29-32594		
.05	OCW2 MW31		0918		5	/	_	-	<u>-</u>					29-32595		
. 0€			0930		9	1	r	_	_				0.0	29-32596		
, 07	OCW2 mw33	<u> </u>	0907	V	5	~	/	/	-				0,0	29-32597		
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Relinquished by (signature):  Date/Time: Received by (signature):					Relinquished by (signature): Date/Time:				Received by (signature):							
Report Type: ()Full, () Turnaround time: ()Stan	Reduced, Standard, Screed and 3 wks, Rush Days,	n / non-certif				Rema	rks:  de:/	N/A	-	Shues	T/1	EB/10.	pu w/ S /14	2002 + My Sin Bute, com, 1505 here,		

LOCATION: CW-2 MW#: 0CW2MW30 NJDEP ID #: 29-32594 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 10/12/00

WEATHER: Sunny, cool.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.71 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 7.31 ft** DEPTH OF WELL: 17.95 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 10.64 ft (10.64) X .65 X 3 = 20.74

GALLONS OF H2O TO BE PURGED: 21 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 07:50** 

pH 6.88 su

TEMP 19.7 °C

DISSOLVED O2 5.57 ppm

SPECIFIC CONDUCTIVITY 307 us/cm

PURGE END TIME: 08:21

pH 6.77 su

TEMP 19.2 °C

DISSOLVED O2 4.10 ppm

SPECIFIC CONDUCTIVITY 298 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 12.92 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 22 gal

**SAMPLE START TIME: 09:22** 

pH 6.76 su

TEMP 19.2 °C

DISSOLVED O2 4.07 ppm

SPECIFIC CONDUCTIVITY 297 us/cm

SAMPLE END TIME: 09:29

COMMENTS:

LOCATION: CW-2 MW#: 0CW2MW31 NJDEP ID #: 29-32595 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 10/12/00

WEATHER: Sunny, cool.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.88 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 7.16 ft** DEPTH OF WELL: 16.91 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 9.75 ft (9.75) X .65 X 3 = 19.01

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 07:55** 

pH 6.67 sur

TEMP 19.7 °C

DISSOLVED O2 5.31 ppm

SPECIFIC CONDUCTIVITY 407 us/cm

PURGE END TIME: 09:17

pH 6.56 su

TEMP 19.1 °C

DISSOLVED O2 4.12 ppm

SPECIFIC CONDUCTIVITY 397 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 10.07 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 19 gal

**SAMPLE START TIME: 09:18** 

pH 6.56 su

TEMP 19.2 °C

DISSOLVED O2 4.10 ppm

SPECIFIC CONDUCTIVITY 398 us/cm

SAMPLE END TIME: 09:22

COMMENTS: Cloudy, orange.

LOCATION: CW-2 MW#: 0CW2MW32 NJDEP ID #: 29-32596 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 10/12/00

WEATHER: Sunny, cool.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.38 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 7.35 ft** DEPTH OF WELL: 16.89 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 9.54 ft (9.54) X .65 X 3 = 18.60

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 08:00** 

pH 6.79 su

TEMP 19.5 °C

DISSOLVED O2 5.48 ppm

SPECIFIC CONDUCTIVITY 304 us/cm

**PURGE END TIME: 09:22** 

pH 6.73 su

TEMP 19.0 °C

DISSOLVED O2 4.13 ppm

SPECIFIC CONDUCTIVITY 294 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 15.62 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 09:30

pH 6.73 su

TEMP 19.1 °C

DISSOLVED O2 4.11 ppm

SPECIFIC CONDUCTIVITY 294 us/cm

SAMPLE END TIME: 09:39

COMMENTS: Large drain down, slow flow. Recovered slowly. Started clearing, became

very cloudy and orange.

LOCATION: CW-2 MW#: 0CW2MW33 NJDEP ID #: 29-32597 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 10/12/00

WEATHER: Sunny, cool.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.09 ft

INNER CASING DIA.: 4 INCH DEPTH TO WATER: 9.11 ft DEPTH OF WELL: 16.10 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 6.99 ft (6.99) X .65 X 3 = 13.63

GALLONS OF H2O TO BE PURGED: 14 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 08:05** 

pH 6.99 su

TEMP 19.4 °C

DISSOLVED O2 5.11 ppm

SPECIFIC CONDUCTIVITY 404 us/cm

PURGE END TIME: 09:06

pH 6.91 su

TEMP 18.7 °C

DISSOLVED O2 4.10 ppm

SPECIFIC CONDUCTIVITY 399 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.98 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER)

TOTAL VOLUME PURGED: 14 gal

SAMPLE START TIME: 09:07

pH 6.90 su

TEMP 18.8 °C

DISSOLVED O2 4.07 ppm

SPECIFIC CONDUCTIVITY 398 us/cm

SAMPLE END TIME: 09:16

COMMENTS: Cloudy, orange tinge. DUP here.

# US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEP CERTIFICATION # 13461

#### **Definition of Qualifiers**

**MDL**: Method Detection Limit

J : Compound Identified Below Detection Limit
 B : Compound is in Both Sample and Blank
 D : Results are from a Dilution of the Sample
 U : Compound Searched for but not Detected
 E : Compound Exceeds Calibration Limit

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VB008507.D

Skelton

Sample Name Field ID Vblk249 Vblk249

Operator

Date Acquired

17 Oct 2000 11:49 am

Sample Multiplier

107131 / 75650 t	Acrolein					MDL	Qualifier
75650 t	Aitit-			not detected	50	1.85 ug/L	
	Acrylonitrile			not detected	50	2.78 ug/L	
1634044	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4 V	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9 I	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
	Acetone			not detected	700	1.36 ug/L	
	Carbon Disulfide			not detected	nle	0.46 ug/L	I
	Methylene Chloride		•	not detected	2	0.24 ug/L	
	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
	1,1-Dichloroethane			not detected	70	0.12 ug/L	
	Vinyl Acetate			not detected	nle	0.78 ug/L	
	2-Butanone			not detected	300	0.62 ug/L	
	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
	Chloroform			not detected	6	0.30 ug/L	
	1.1.1-Trichloroethane			not detected	30	0.23 ug/L	
	Carbon Tetrachloride			not detected	2	0.47 ug/L	
	Benzene			not detected	1 1	0.23 ug/L	
	1,2-Dichloroethane			not detected	2	0.18 ug/L	
	Trichloroethene			not detected	1	0.23 ug/L	
	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4 I	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8 2	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5 c	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1 4	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6 t	trans-1,3-Dichloropropene		_	not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6 2	2-Hexanone			not detected	nle	0.71 ug/L	
	Dibromochloromethane			not detected	10	0.86 ug/L	
	Chlorobenzene			not detected	4	0.39 ug/L	
	Ethylbenzene			not detected	700	0.65 ug/L	
	m+p-Xylenes	-		not detected	nle	1.14 ug/L	
	o-Xylene			not detected	nle	0.62 ug/L	
	Styrene			not detected	100	0.56 ug/L	
	Bromoform		<u> </u>	not detected	4	0.70 ug/L	† <u>-</u> -
	1,1,2,2-Tetrachloroethane		l	not detected	2	0.47 ug/L	
	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
			<b> </b>	not detected		0.57 ug/L 0.57 ug/L	
	1,4-Dichlorobenzene 1,2-Dichlorobenzene	<u> </u>	<del> </del>	not detected	75 600	0.57 ug/L 0.64 ug/L	<del> </del>

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab	ID.
-----	-----

Lab Name:	FMETL			Project:	LTM		Vblk2	19
NJDEP#:	13461	Cas	se No.: 5784		on: CW2	SD	G No.:	
Matrix: (soil/	water)	WATER		 L	ab Sample	- D: <u>'</u>	Vblk249	
Sample wt/ve	ol:	5.0	(g/ml) ML	L	ab File ID:	_	VB008507.D	<del></del> -
Level: (low/r	med)	LOW	•		ate Receiv	/ed: _	10/12/00	
% Moisture:	not dec.	<del></del>	<del></del>	ε	Date Analyz	ed:	10/17/00	
GC Column:		Dilution Factor: 1.0						
Soil Extract \	Volume:		_ (uL)	5	Soil Aliquot	Volun	ne:	(uL)
Number TIC:	s found:	0		ONCENTRA				
CAS NO.		COMPOU	ND NAME		RT	ES	Γ. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Operator VB008514.D

Skelton

Sample Name Field ID 5784.01 Trip Blank

Date Acquired

17 Oct 2000 5:35 pm

Sample Multiplier

CAS#_	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	Γ
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	Ī
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	9.34	178997	7.29 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not_detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1 1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	<u> </u>
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene	L		not detected	1 1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	<u> </u>
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	L	L	not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	[
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	Γ

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab	ID.
Lab	ID.

Lab Name:	FMETL		Project:	Trip Blank				
NJDEP#:	13461	Case No.: 57		LTM tion: CW2	SD	G No.:		
Matrix: (soil/v	water)	WATER	i	Lab Sample	ID: <u>5</u>	784.01		
Sample wt/vo	ol:	5.0 (g/ml) M	<u>L</u> .	Lab File ID:	<u>\</u>	/B008514.D		
Level: (low/r	ned)	LOW	. [	Date Receiv	/ed: <u>1</u>	0/12/00		
% Moisture:	not dec.		i	Date Analyz	ed: 1	0/17/00		
GC Column:	RTX5	02. ID: <u>0.25</u> (mm)	1	Dilution Fac	tor: 1	.0		
Soil Extract Volume:		(uL)		Soil Aliquot Volume:				
Number TICs	s found:	0	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L					
CAS NO.		COMPOUND NAME		RT	EST	CONC.	Q	

#### **Volatile Analysis Report** U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Operator

VB008515.D

Skelton

Sample Name Field ID

5784.02 Field Blank

Date Acquired

17 Oct 2000 6:15 pm

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nie	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone	9.28	127641	5.32 ug/L	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1.1.1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	ı	0.23 ug/L	
107-06-2	1.2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene	<u> </u>		not detected	4	0.39 ug/L	T
100-41-4	Ethylbenzene	· ·		not detected	700	0.65 ug/L	T
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	1
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	Ĭ
100-42-5	Styrene			not detected	100	0.56 ug/L	T T
75-25-2	Bromoform			not detected	4	0.70 ug/L	1
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	1
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	†
106-46-7	1.4-Dichlorobenzene	<del> </del>		not detected	75	0.57 ug/L	<b></b>
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	<del> </del>

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		Project:	LTM	Fleid Blank		
NJDEP#:	13461	Case No.: 5784	Locat	ion: CW2	_ sc	OG No.:	<u> </u>
Matrix: (soil/	water)	WATER	ı	_ab Sample	e ID:	5784.02	
Sample wt/ve	ol:	5.0 (g/ml) ML	l	_ab File ID:	:	VB008515.D	_
Level: (low/r	ned)	LOW	]	Date Recei	ved:	10/12/00	<del></del>
% Moisture:	not dec.		í	Date Analy:	zed:	10/17/00	<del></del>
GC Column:	RTX5	02. ID: <u>0.25</u> (mm)	(	Dilution Fac	ctor:	1.0	<del></del>
Soil Extract \	Volume:	(uL)	5	ne:	(uL)		
Number TICs	s found:		CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L				
CAS NO.		COMPOUND NAME		RT	ES	T. CONC.	Q

#### Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File

VB008516.D

Skelton

Sample Name

5784.03

Operator

Field ID

Dupe

Date Acquired

17 Oct 2000 6:55 pm

Sample Multiplier

CAS#_	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane		-	not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1_1_	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes_			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL		Project:	LTM		Dupe	2
NJDEP#:	13461	Case No.: 5784	Locatio	on: CW2	_ SC	OG No.:	·
Matrix: (soil/	water)	WATER	La	ab Sample	e ID:	5784.03	
Sample wt/v	ol:	5.0 (g/ml) ML	La	ab File ID:	-	VB008516.D	
Level: (low/med) LOW			D	ate Recei	ved:	10/12/00	
% Moisture:	not dec.		Date Analyzed: 10/17/00				
GC Column:	RTX5	Dilution Factor: 1.0					
Soil Extract Volume: (uL)			Soil Aliquot Volume:				
Number TIC	s found:	<u> </u>	CONCENTRA (ug/L or ug/Kg				
CAS NO.		COMPOUND NAME		RT	ES	T. CONC.	Q

#### Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File

VB008517.D

Sample Name

5784.04

Operator

Skelton Date Acquired 17 Oct 2000 7:35 pm Field ID

0CW2MW30

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifi
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	Ĺ
1634044	Methyl-tert-Butyl ether		<u>-</u>	not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane		_	not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane	T		not detected	ale	0.50 ug/L	
75-35-4	1.1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	T
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1.1-Dichloroethane			not detected	70	0.12 ug/L	†··
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone		-	not detected	300	0.62 ug/L	<del>                                     </del>
156-59-4	cis-1,2-Dichloroethene	<del> </del>		not detected	10	0.17 ug/L	<del> </del>
67-66-3	Chloroform	<u> </u>		not detected	6	0.30 ug/L	<del>                                     </del>
75-55-6	1,1,1-Trichloroethane	1		not detected	30	0.33 ug/L 0.23 ug/L	<del> </del>
56-23-5	Carbon Tetrachloride			not detected	2	0.23 ug/L 0.47 ug/L	<del> </del>
71-43-2	Benzene			not detected	1	0.47 ug/L	-
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	
79-01-6	Trichloroethene	<del>                                     </del>		not detected	1	0.18 ug/L 0.23 ug/L	╁
78-87-5	1,2-Dichloropropane	<del>                                     </del>		not detected	1	0.40 ug/L	<del> </del> -
75-27-4	Bromodichloromethane	-		not detected	1	0.40 ug/L 0.55 ug/L	<del>                                     </del>
	<del></del>	<del> </del>	<del></del>	not detected	1		
110-75-8	2-Chloroethyl vinyl ether	<del> </del>	<u> </u>	<del></del>	nle	0.65 ug/L	-
10061-01-5	cis-1,3-Dichloropropene		<del> </del>	not detected	nle	0.69 ug/L	<del> </del>
108-10-1	4-Methyl-2-Pentanone	<del>                                     </del>		not detected	400	0.59 ug/L	<del> </del>
108-88-3	Toluene	<del> </del>		not detected	1000	0.37 ug/L	<del> </del>
10061-02-6	trans-1,3-Dichloropropene	<del> </del>		not detected	nle	0.87 ug/L	<del> </del> -
79-00-5	1,1,2-Trichloroethane	<b>}</b>		not detected	3	0.48 ug/L	<del>                                     </del>
127-18-4	Tetrachloroethene	ļ		not detected	1 1	0.32 ug/L	<del> </del>
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	<b>ļ</b>
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	<del> </del>
108-90-7	Chlorobenzene	<b> </b>		not detected	4	0.39 ug/L	<b></b>
100-41-4	Ethylbenzene	<del> </del>		not detected	700	0.65 ug/L	<b> </b>
1330-20-7	m+p-Xylenes	<b></b>		not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene	<u> </u>		not detected	nle	0.62 ug/L	<b> </b>
100-42-5	Styrene			not detected	100	0.56 ug/L	<u> </u>
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab	ID.
-----	-----

Lab Name:	FMETL			Project:	LTM		0CW2M	W30
NJDEP#:	13461	Cas	se No.: 5784	Locat	ion: CW2	s	DG No.:	
Matrix: (soil/	water)	WATER		t	_ab Sample	D:	5784.04	
Sample wt/ve	ol:	5.0	(g/mi) ML	t	_ab File ID:		VB008517.D	
Level: (low/r	ned)	LOW	-	{	Date Recei	ved:	10/12/00	
% Moisture:	not dec.				Date Analyz	zed:	10/17/00	
GC Column: RTX502. ID: 0.25 (mm)				Dilution Factor: 1.0				
Soil Extract Volume:			_ (uL)	5	Soil Aliquot	me:	(uL)	
Number TICs	s found:	0	_	ONCENTR ıg/L or ug/K				
CAS NO.		COMPOU	ND NAME	-	RT	ES	ST. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

**VB008518.D** 

Skelton

Sample Name Field ID 5784.05 0CW2MW31

Operator

Date Acquired

17 Oct 2000 8:15 pm

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Oualifie
107028	Acrolein	К. Г.	Kesponse	not detected	50	1.85 ug/L	Quamic
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	<b> </b>
1034044	Di-isopropyl ether			not detected	nle	0.10 ug/L 0.25 ug/L	<del> </del>
75718	Di-isopropyr edier  Dichlorodifluoromethane			not detected	nle	1.68 ug/L	<b></b> -
74-87-3	Chloromethane			not detected	30	1.16 ug/L	<del> </del>
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	<del>                                     </del>
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	<del>                                     </del>
75-69-4	Trichlorofluoromethane			not detected	1	0.50 ug/L	<b></b>
75-35-4				not detected	nle 2	0.30 ug/L 0.24 ug/L	<del> </del>
	1,1-Dichloroethene			not detected	<del> </del>	1.36 ug/L	
67-64-1 75-15-0	Acetone			not detected	700	0.46 ug/L	<del> </del>
75-13-0	Carbon Disulfide			not detected	nle	0.40 ug/L 0.24 ug/L	<del> </del>
156-60-5	Methylene Chloride			not detected	2	0.24 ug/L 0.16 ug/L	<del> </del> -
75-34-3	trans-1,2-Dichloroethene 1.1-Dichloroethane			not detected	100	0.10 ug/L 0.12 ug/L	<del> </del>
	Vinyl Acetate			not detected	70		<del> </del> -
108-05-4 78-93-3				not detected	nle 300	0.78 ug/L 0.62 ug/L	<del> </del>
	2-Butanone			not detected	<del>                                     </del>	0.02 ug/L 0.17 ug/L	-
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L 0.30 ug/L	<b></b>
67-66-3 75-55-6	Chloroform			not detected	6	0.30 ug/L 0.23 ug/L	<del> </del>
	1,1,1-Trichloroethane	_		not detected	30	0.23 ug/L 0.47 ug/L	
56-23-5	Carbon Tetrachloride Benzene				2		<del> </del> -
71-43-2				not detected not detected	1	0.23 ug/L	<u> </u>
107-06-2	1,2-Dichloroethane				2	0.18 ug/L 0.23 ug/L	<del> </del>
79-01-6	Trichloroethene			not detected	1		<del> </del>
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	<del> </del>
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether		<del></del>	not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	<b></b>
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	<del> </del> -
108-88-3	Toluene			not detected	1000	0.37 ug/L	<del> </del>
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	<del> </del>
126-48-1	Dibromochloromethane	<u></u>	····	not detected	10	0.86 ug/L	<del> </del>
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	<del></del>
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	<del> </del>
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	-
1330-20-7	o-Xylene		<del></del>	not detected	nle	0.62 ug/L	_
100-42-5	Styrene			not detected	100	0.56 ug/L	ļ
75-25-2	Bromoform			not detected	4	0.70 ug/L	<del> </del>
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	<b> </b>
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50- <u>1</u>	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	1

<sup>\*</sup>Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL			Project:	LTM		UCW2M	W31
NJDEP#:	13461	Cas	e No.: <u>5784</u>	Locati	on: CW2	_ s	DG No.:	
Matrix: (soil/	water)	WATER	-	L	ab Sample	e ID:	5784.05	
Sample wt/ve	ol:	5.0	(g/ml) ML	L	ab File ID:		VB008518.D	
Level: (low/r	med)	LOW		C	ate Recei	ved:	10/12/00	
% Moisture:	not dec.				ate Analy:	zed:	10/17/00	
GC Column:	RTX5	02. ID: 0.2	.5 (mm)		ilution Fac	ctor:	1.0	
Soil Extract \	Volume:		_ (uL)	S	Soil Aliquot	Volu	me:	(uL)
Number TIC:	s found:	0		CONCENTRA ug/L or ug/K				
CAS NO.		COMPOU	ND NAME		RT	ES	ST. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Operator VB008519.D

Skelton

Sample Name Field ID 5784.06 0CW2MW32

Date Acquired

17 Oct 2000 8:55 pm

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein			not detected	50	1.85 ug/L	Ĺ.,
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718_	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene	Ī		not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			_ not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156-59-4	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	1
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene	1		not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	<del>                                     </del>
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	<del>                                     </del>
100-42-5	Styrene	t — —		not detected	100	0.56 ug/L	
75-25-2	Bromoform	<del> </del>		not detected	4	0.70 ug/L	<del>                                     </del>
79-34-5	1,1,2,2-Tetrachloroethane	<del>                                     </del>		not detected	2	0.47 ug/L	<del>                                     </del>
541-73-1	1,3-Dichlorobenzene			not detected	600	0.47 ug/L 0.55 ug/L	<del>                                     </del>
106-46-7	1.4-Dichlorobenzene	<del>                                     </del>	<del></del>	not detected		0.57 ug/L 0.57 ug/L	<del></del>
100-40-7	1,7-DICHOLOUGHZEHE	<del></del>	<del> </del>	not detected	75	0.57 ug/L 0.64 ug/L	<del> </del>

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab	D.
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Lab Name:	FMETL			Project:	LTM		0CW2MV	V32
NJDEP#:	13461	Ca	se No.: 5784	_ Locat	tion: CW2		DG No.:	
Matrix: (soil/	water)	WATER	_	1	Lab Sample	ID:	5784.06	
Sample wt/v	oi:	5.0	(g/ml) ML	।	Lab File ID:		VB008519.D	
Level: (low/	med)	LOW	_	ı	Date Receiv	/ed:	10/12/00	
% Moisture:	not dec.			Į	Date Analyz	ed:	10/17/00	
GC Column:	RTX5	02. ID: <u>0.2</u>	25 (mm)	Į	Dilution Fac	tor:	1.0	
Soil Extract \	Volume:		_ (uL)	;	Soil Aliquot	Volu	me:	(uL)
Number TIC	s found:	0		ONCENTR	ATION UN (g) UG	_		
CAS NO.		COMPOL	IND NAME		RT	ES	T. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File

VB008520.D

Sample Name

5784.07

Operator

Skelton

Field ID

0CW2MW33

Date Acquired

17 Oct 2000 9:36 pm

Sample Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	Qualifie
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	<del>                                     </del>
75-35-4	1.1-Dichloroethene			not detected	2	0.24 ug/L	1
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	<b></b>
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1.2-Dichloroethene			not detected	100	0.24 ug/L	<del> </del>
75-34-3	1.1-Dichloroethane			not detected	70	0.10 ug/L 0.12 ug/L	<del>                                     </del>
108-05-4	1-4			not detected	T	0.12 ug/L 0.78 ug/L	<del> </del>
78-93-3	Vinyl Acetate			not detected	nle	0.78 ug/L 0.62 ug/L	
	2-Butanone			not detected	300		<del> </del>
156-59-4	cis-1,2-Dichloroethene				10	0.17 ug/L	<del> </del>
67-66-3	Chloroform			not detected	6	0.30 ug/L	<del> </del>
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	<del> </del>
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	<del> </del>
71-43-2	Benzene	<b></b>		not detected	1 1	0.23 ug/L	<del> </del>
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	<del> </del>
79-01-6	Trichloroethene			not detected	1 1	0.23 ug/L	-
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	<b>!</b>
75-27-4	Bromodichloromethane	<b></b>	-	not detected	1	0.55 ug/L	<b> </b>
110-75-8	2-Chloroethyl vinyl ether	ļi	-	not detected	nle	0.65 ug/L	ļ
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	ļ
108-10-1	4-Methyl-2-Pentanone	<u> </u>		not detected	400	0.59 ug/L	ļ
108-88-3	Toluene	ļ		not detected	1000	0.37 ug/L	<u> </u>
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	<u> </u>
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	<u> </u>
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	ļ
591-78-6	2-Hexanone			not detected	nie	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	<u> </u>
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene	[		not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene		·	not detected	75	0.57 ug/L	T
95-50-1	1,2-Dichlorobenzene	<del> </del>		not detected	600	0.64 ug/L	<del></del>

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6 2-Sept-9

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab ID.
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Lab Name:	FMETL		Project: L	TM	0CW2MV	V33
NJDEP#:	13461	Case No.: <u>5784</u>	Location:	CW2 S	DG No.:	
Matrix: (soil/	water)	WATER	Lab S	Sample ID:	5784.07	
Sample wt/v	ol:	5.0 (g/ml) ML	Lab F	File ID:	VB008520.D	_
Level: (low/r	med)	LOW	Date	Received:	10/12/00	_
% Moisture:	not dec.		Date	Analyzed:	10/17/00	
GC Column:	RTX5	02. ID: 0.25 (mm)	Dilutio	on Factor:	1.0	
Soil Extract Volume		(uL)	Soil A	Aliquot Volu	ume:	(uL)
Number TIC	s found:		NCENTRATIC /L or ug/Kg)	ON UNITS: UG/L		
CAS NO.		COMPOUND NAME		RT E	ST. CONC.	Q

#### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BNA04559.D

Sample Name

Sblk427

Operator

Bhaskar

Misc Info

Sblk427 A 001013

Date Acquired

16-Oct-00

Sample Multiplier

62-75-9   N-nitroso-dimethylamine   not detected   20   0.6	4 ug/L 9 ug/L 2 ug/L 3 ug/L 1 ug/L 2 ug/L 2 ug/L 5 ug/L 5 ug/L 6 ug/L 9 ug/L	
62-75-9   N-nitroso-dimethylamine   not detected   20   0.6	0 ug/L 5 ug/L 2 ug/L 3 ug/L 1 ug/L 2 ug/L 2 ug/L 5 ug/L	
62-53-3   Aniline	5 ug/L 2 ug/L 3 ug/L 1 ug/L 2 ug/L 8 ug/L 2 ug/L 5 ug/L	
108-95-2	2 ug/L 3 ug/L 1 ug/L 2 ug/L 8 ug/L 2 ug/L 5 ug/L	
111-44-4   bis(2-Chloroethyl)ether	3 ug/L 1 ug/L 2 ug/L 8 ug/L 2 ug/L 5 ug/L	
95.57-8         2-Chlorophenol         not detected         40         0.6           541-73-1         1,3-Dichlorobenzene         not detected         600         0.6           106-46-7         1,4-Dichlorobenzene         not detected         75         0.5           100-51-6         Benzyl alcohol         not detected         NLE         0.6           95-50-1         1,2-Dichlorobenzene         not detected         NLE         0.6           95-48-7         2-Methylphenol         not detected         NLE         0.5           108-60-1         bis(2-chloroisopropyl)ether         not detected         300         0.5           106-44-5         4-Methylphenol         not detected         NLE         0.4           621-64-7         n-Nitroso-di-n-propylamine         not detected         20         0.6           67-72-1         Hexachloroethane         not detected         10         0.3           98-95-3         Nitrobenzene         not detected         10         0.5           78-59-1         Isophorone         not detected         10         0.5           88-75-5         2-Nitrophenol         not detected         NLE         0.5           105-67-9         2,4-Dimethylphenol         no	1 ug/L 2 ug/L 8 ug/L 2 ug/L 5 ug/L	
541-73-1         1,3-Dichlorobenzene         not detected         600         0.6           106-46-7         1,4-Dichlorobenzene         not detected         75         0.5           100-51-6         Benzyl alcohol         not detected         NLE         0.6           95-50-1         1,2-Dichlorobenzene         not detected         NLE         0.5           95-48-7         2-Methylphenol         not detected         NLE         0.5           108-60-1         bis(2-chloroisopropyl)ether         not detected         300         0.5           106-44-5         4-Methylphenol         not detected         NLE         0.4           621-64-7         n-Nitroso-di-n-propylamine         not detected         20         0.6           67-72-1         Hexachloroethane         not detected         10         0.3           98-95-3         Nitrobenzene         not detected         10         0.5           78-59-1         Isophorone         not detected         10         0.5           78-75-5         2-Nitrophenol         not detected         NLE         0.5           105-67-9         2,4-Dimethylphenol         not detected         NLE         0.5           11-91-1         bis(2-Chloroethoxy)methane	2 ug/L 8 ug/L 2 ug/L 5 ug/L	
106-46-7         1,4-Dichlorobenzene         not detected         75         0.5           100-51-6         Benzyl alcohol         not detected         NLE         0.6           95-50-1         1,2-Dichlorobenzene         not detected         600         0.6           95-48-7         2-Methylphenol         not detected         NLE         0.5           108-60-1         bis(2-chloroisopropyl)ether         not detected         300         0.5           106-44-5         4-Methylphenol         not detected         NLE         0.4           621-64-7         n-Nitroso-di-n-propylamine         not detected         20         0.6           67-72-1         Hexachloroethane         not detected         10         0.3           98-95-3         Nitrobenzene         not detected         10         0.5           78-59-1         Isophorone         not detected         10         0.5           78-59-1         Isophorone         not detected         100         0.4           88-75-5         2-Nitrophenol         not detected         NLE         0.5           105-67-9         2,4-Dimethylphenol         not detected         NLE         0.4           120-83-2         2,4-Dichlorophenol         not de	B ug/L 2 ug/L 5 ug/L	
100-51-6   Benzyl alcohol   not detected   NLE   0.6	2 ug/L 5 ug/L	<del> </del>
95-50-1   1,2-Dichlorobenzene   not detected   NLE   0.5	5 ug/L	
95-48-7         2-Methylphenol         not detected         NLE         0.5           108-60-1         bis(2-chloroisopropyl)ether         not detected         300         0.5           106-44-5         4-Methylphenol         not detected         NLE         0.4           621-64-7         n-Nitroso-di-n-propylamine         not detected         20         0.6           67-72-1         Hexachloroethane         not detected         10         0.3           98-95-3         Nitrobenzene         not detected         10         0.5           78-59-1         Isophorone         not detected         100         0.4           88-75-5         2-Nitrophenol         not detected         NLE         0.5           105-67-9         2,4-Dimethylphenol         not detected         NLE         0.5           111-91-1         bis(2-Chloroethoxy)methane         not detected         NLE         0.4           120-83-2         2,4-Dichlorophenol         not detected         NLE         0.3           65-85-0         Benzoic Acid         not detected         NLE         1.1           120-82-1         1,2,4-Trichlorobenzene         not detected         NLE         0.5           91-20-3         Naphthalene		
108-60-1   bis(2-chloroisopropyl)ether   not detected   NLE   0.5	) ug/[	<b>↓</b>
106-44-5         4-Methylphenol         not detected         NLE         0.4           621-64-7         n-Nitroso-di-n-propylamine         not detected         20         0.6           67-72-1         Hexachloroethane         not detected         10         0.3           98-95-3         Nitrobenzene         not detected         10         0.5           78-59-1         Isophorone         not detected         100         0.4           88-75-5         2-Nitrophenol         not detected         NLE         0.5           105-67-9         2,4-Dimethylphenol         not detected         100         0.9           111-91-1         bis(2-Chloroethoxy)methane         not detected         NLE         0.4           120-83-2         2,4-Dichlorophenol         not detected         NLE         0.3           65-85-0         Benzoic Acid         not detected         NLE         1.1           120-82-1         1,2,4-Trichlorobenzene         not detected         NLE         0.7           91-20-3         Naphthalene         not detected         NLE         0.7           87-68-3         Hexachlorobutadiene         not detected         NLE         0.4           89-50-7         4-Chloro-3-methylphenol	+	<u> </u>
621-64-7         n-Nitroso-di-n-propylamine         not detected         20         0.6           67-72-1         Hexachloroethane         not detected         10         0.3           98-95-3         Nitrobenzene         not detected         10         0.5           78-59-1         Isophorone         not detected         100         0.4           88-75-5         2-Nitrophenol         not detected         NLE         0.5           105-67-9         2,4-Dimethylphenol         not detected         100         0.9           111-91-1         bis(2-Chloroethoxy)methane         not detected         NLE         0.4           120-83-2         2,4-Dichlorophenol         not detected         NLE         0.3           65-85-0         Benzoic Acid         not detected         NLE         1.1           120-82-1         1,2,4-Trichlorobenzene         not detected         NLE         0.5           91-20-3         Naphthalene         not detected         NLE         0.7           106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         NLE         0.4           59-50-7         4-Chloro-3-methylphenol	7 ug/L	
67-72-1         Hexachloroethane         not detected         10         0.3           98-95-3         Nitrobenzene         not detected         10         0.5           78-59-1         Isophorone         not detected         100         0.4           88-75-5         2-Nitrophenol         not detected         NLE         0.5           105-67-9         2,4-Dimethylphenol         not detected         100         0.9           111-91-1         bis(2-Chloroethoxy)methane         not detected         NLE         0.4           120-83-2         2,4-Dichlorophenol         not detected         NLE         0.3           65-85-0         Benzoic Acid         not detected         NLE         1.1           120-82-1         1,2,4-Trichlorobenzene         not detected         NLE         0.5           91-20-3         Naphthalene         not detected         NLE         0.7           106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         NLE         0.7           95-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.5           91-57-6         2-Methylnaphthalene         n	ug/L	
98-95-3         Nitrobenzene         not detected         10         0.5           78-59-1         Isophorone         not detected         100         0.4           88-75-5         2-Nitrophenol         not detected         NLE         0.5           105-67-9         2,4-Dimethylphenol         not detected         100         0.9           111-91-1         bis(2-Chloroethoxy)methane         not detected         NLE         0.4           120-83-2         2,4-Dichlorophenol         not detected         20         0.3           65-85-0         Benzoic Acid         not detected         NLE         1.1           120-82-1         1,2,4-Trichlorobenzene         not detected         NLE         0.5           91-20-3         Naphthalene         not detected         NLE         0.7           106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         NLE         0.7           95-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.7           91-57-6         2-Methylnaphthalene         not detected         NLE         0.5	ug/L	
78-59-1         Isophorone         not detected         100         0.4           88-75-5         2-Nitrophenol         not detected         NLE         0.5           105-67-9         2,4-Dimethylphenol         not detected         100         0.9           111-91-1         bis(2-Chloroethoxy)methane         not detected         NLE         0.4           120-83-2         2,4-Dichlorophenol         not detected         20         0.3           65-85-0         Benzoic Acid         not detected         NLE         1.1           120-82-1         1,2,4-Trichlorobenzene         not detected         9         0.5           91-20-3         Naphthalene         not detected         NLE         0.7           106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         NLE         0.7           95-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.7           91-57-6         2-Methylnaphthalene         not detected         NLE         0.5	4 ug/L	<u> </u>
88-75-5         2-Nitrophenol         not detected         NLE         0.5           105-67-9         2,4-Dimethylphenol         not detected         100         0.9           111-91-1         bis(2-Chloroethoxy)methane         not detected         NLE         0.4           120-83-2         2,4-Dichlorophenol         not detected         20         0.3           65-85-0         Benzoic Acid         not detected         NLE         1.1           120-82-1         1,2,4-Trichlorobenzene         not detected         9         0.5           91-20-3         Naphthalene         not detected         NLE         0.7           106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         NLE         0.4           59-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.7           91-57-6         2-Methylnaphthalene         not detected         NLE         0.5	l ug/L	
105-67-9         2,4-Dimethylphenol         not detected         100         0.9           111-91-1         bis(2-Chloroethoxy)methane         not detected         NLE         0.4           120-83-2         2,4-Dichlorophenol         not detected         20         0.3           65-85-0         Benzoic Acid         not detected         NLE         1.1           120-82-1         1,2,4-Trichlorobenzene         not detected         9         0.5           91-20-3         Naphthalene         not detected         NLE         0.7           106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         NLE         0.4           59-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.7           91-57-6         2-Methylnaphthalene         not detected         NLE         0.5	ug/L	
111-91-1         bis(2-Chloroethoxy)methane         not detected         NLE         0.4           120-83-2         2,4-Dichlorophenol         not detected         20         0.3           65-85-0         Benzoic Acid         not detected         NLE         1.1           120-82-1         1,2,4-Trichlorobenzene         not detected         9         0.5           91-20-3         Naphthalene         not detected         NLE         0.7           106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         1         0.4           59-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.7           91-57-6         2-Methylnaphthalene         not detected         NLE         0.5	2 ug/L	<u> </u>
120-83-2         2,4-Dichlorophenol         not detected         20         0.3           65-85-0         Benzoic Acid         not detected         NLE         1.1           120-82-1         1,2,4-Trichlorobenzene         not detected         9         0.5           91-20-3         Naphthalene         not detected         NLE         0.7           106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         1         0.4           59-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.7           91-57-6         2-Methylnaphthalene         not detected         NLE         0.5	3 ug/L	<u> </u>
65-85-0         Benzoic Acid         not detected         NLE         1.1           120-82-1         1,2,4-Trichlorobenzene         not detected         9         0.5           91-20-3         Naphthalene         not detected         NLE         0.7           106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         1         0.4           59-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.7           91-57-6         2-Methylnaphthalene         not detected         NLE         0.5	B ug/L	
120-82-1         1,2,4-Trichlorobenzene         not detected         9         0.5           91-20-3         Naphthalene         not detected         NLE         0.7           106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         1         0.4           59-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.7           91-57-6         2-Methylnaphthalene         not detected         NLE         0.5	ug/L	
91-20-3         Naphthalene         not detected         NLE         0.7           106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         1         0.4           59-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.7           91-57-6         2-Methylnaphthalene         not detected         NLE         0.5	5 ug/L	
106-47-8         4-Chloroaniline         not detected         NLE         1.7           87-68-3         Hexachlorobutadiene         not detected         1         0.4           59-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.7           91-57-6         2-Methylnaphthalene         not detected         NLE         0.5	4 ug/L	
87-68-3         Hexachlorobutadiene         not detected         1         0.4           59-50-7         4-Chloro-3-methylphenol         not detected         NLE         0.7           91-57-6         2-Methylnaphthalene         not detected         NLE         0.5	2 ug/L	
59-50-74-Chloro-3-methylphenolnot detectedNLE0.791-57-62-Methylnaphthalenenot detectedNLE0.5	3 ug/L	
91-57-6 2-Methylnaphthalene not detected NLE 0.5	ug/L	
	l ug/L	
en 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ug/L	
77-47-4 Hexachlorocyclopentadiene not detected 50 0.7	ug/L	
88-06-2 2,4,6-Trichlorophenol not detected 20 0.5	ug/L	
95-95-4 2,4,5-Trichlorophenol not detected 700 0.9	5 ug/L	
91-58-7 2-Chloronaphthalene not detected NLE 0.5	ug/L	
88-74-4 2-Nitroaniline not detected NLE 1.0	4 ug/L	
	ug/L	
	ug/L	
	2 ug/L	
	3 ug/L	
	2 ug/L	
	ug/L	
	ug/L	
100-02-7 4-Nitrophenol not detected NLE 1.4	יו עציווי	

#### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BNA04559.D

Sample Name

Sblk427

Operator

Bhaskar 16-Oct-00 Misc Info

Sblk427 A 001013

Sample Multiplier

1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Ругеле			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T = Retention Time

1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field Id:

Lab Name:	FMETL		Lab C	ode 13461	Sblk427	7
Project:	LTM	Case No.: 5784	Loc	ation: CW2	SDG No.:	
Matrix: (soil/	water)	WATER		Lab Sample II	D: Sblk427	
Sample wt/v	ol:	1000 (g/ml) ML	<u>.                                    </u>	Lab File ID:	BNA04559.D	<del></del>
Level: (low/i	med)	LOW		Date Received	d: 10/12/00	
% Moisture:		decanted: (Y/N) _	N	Date Extracted	d: 10/13/00	
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 10/16/00						
Injection Vol	ume: <u>1.</u>	0 (uL)		Dilution Factor	r: <u>1.0</u>	_
GPC Cleanu	ip: (Y/N)	NpH:				
Number TIC	s found:	0		ENTRATION U	NITS: G/L	
CAS NUME	BER	COMPOUND NAME	•	RT_	EST. CONC.	Q

#### Semi-Volatile Analysis Report

#### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name BNA04561.D

Sample Name

5784.02

Operator

Bhaskar

Misc Info

Field Blank

Date Acquired

16-Oct-00

Sample Multiplier

Regu	latory

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE_		ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63		
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene	:		not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachioroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone		•	not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	-
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE		ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE		ug/L	
99-09-2	3-Nitroaniline			not detected	NLE		ug/L	
83-32-9	Acenaphthene			not detected	400		ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40		ug/L	
132-64-9	Dibenzofuran		· · · · · · · · · · · · · · · · · · ·	not detected	NLE		ug/L	
100-02-7	4-Nitrophenol			not detected	NLE		ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name

Operator

BNA04561.D

Bhaskar

Date Acquired 16-Oct-00 Sample Name

5784.02

Misc Info

Field Blank

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41 ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54 ug/L	
86-73-7	Fluorene		•	not detected	300	0.98 ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86 ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10 ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44 ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28 ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73 ug/L	
120-12-7	Anthracene			not detected	2000	1.85 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49 ug/L	
206-44-0	Fluoranthene			not detected	300	1.48 ug/L	
92-87-5	Benzidine			not detected	50	2.15 ug/L	
129-00-0	Pyrene			not detected	200	1.53 ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60 ug/L	
218-01-9	Chrysene	1		not detected	20	1.14 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04 ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

#### 1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field Id:

Lab Name:	FMETL		Lab Co	de <u>13461</u>	·	Fleia B	lank
Project:	LTM	Case No.: <u>5784</u>	Loca	tion: CW2	_ SI	OG No.:	, ,,,, <u>-</u>
Matrix: (soil/	water)	WATER	I	Lab Sample	ID:	5784.02	
Sample wt/vo	ol:	1000 (g/ml) ML		Lab File ID:		BNA04561.D	<u> </u>
Level: (low/r	ned)	LOW		Date Receiv	/ed:	10/12/00	<u>-</u>
% Moisture:		decanted: (Y/N)	N	Date Extrac	ted:	10/13/00	
Concentrate	d Extract	Volume: 1000 (uL)	I	Date Analyz	zed:	10/16/00	
Injection Volu	ume: <u>1.</u>	<u>0</u> (uL)		Dilution Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	N pH:	<del>-</del>				
Number TICs	s found:	0	CONCE (ug/L or	NTRATION ug/Kg)	UNIT	_	
CAS NUME	BER	COMPOUND NAME		RT	ES	T. CONC.	Q

#### Semi-Volatile Analysis Report

#### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name BNA04562.D

Sample Name

5784.03

Operator

Bhaskar

Misc Info

Dupe

Date Acquired

16-Oct-00

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
110-86-1	Pyridine	1	x cosponie	not detected	NLE		ug/L	- Quantiers
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	
62-53-3	Aniline			not detected	NLE	1.85		
108-95-2	Phenol	1		not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10		ug/L	· · · · · · · · · · · · · · · · · · ·
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine	<b>↓</b>		not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane	ļ		not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid	ļi		not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene	ļ		not detected	9	0.54	ug/L	
91-20-3	Naphthalene	<u> </u>		not detected	NLE	0.72	ug/L	·
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene	1		not detected	1	0.43	ug/L	
59-50 <b>-</b> 7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene	ļ		not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	<b></b>
88-06-2	2,4,6-Trichlorophenol	ļ		not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol	ļ		not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	ļ
88-74-4	2-Nitroaniline	ļ		not detected	NLE		ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene	igspace		not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline	ļ		not detected	NLE	1.93	ug/L	<u> </u>
83-32-9	Acenaphthene			not detected	400	0.62	ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84	ug/L	
132-64-9	Dibenzofuran		<u>.</u>	not detected	NLE	0.73	ug/L	<u></u>
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04562.D

Sample Namé

5784.03

Operator

Bhaskar

Misc Info

Dupe

Date Acquired

16-Oct-00

Sample Multiplier

					Regulatory Level (ug/L)*	;		
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene	+		not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate	<b></b>		not detected	5000	1.54	ug/L	
86-73-7	Fluorene	1		not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol	1		not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene	<u> </u>		not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene	<u> </u>		not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20		ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

#### 1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Г	Ю	ıa	IQ:	

Lab Name:	FMETL			Lal	Code 13461		Dup	e
Project:	LTM	C	ase No.: 5784		_ocation: CW2	SDO	G No.:	
Matrix: (soil/	water)	WATER			Lab Sample	ID: <u>5</u>	784.03	
Sample wt/v	ol:	1000	(g/ml) ML		Lab File ID:	В	NA04562.	)
Level: (low/	med)	LOW			Date Receive	ed: <u>1</u>	0/12/00	
% Moisture:		de	canted: (Y/N)	N	Date Extract	ed: 1	0/13/00	•
Concentrate	d Extract	Volume:	1000 (uL)	•	Date Analyzo	ed: <u>1</u>	0/16/00	
Injection Vol	ume: <u>1.</u>	0 (uL)			Dilution Fact	or: <u>1</u>	.0	
GPC Cleanu	ıp: (Y/N)	N	pH:	-				
Number TIC	s found:	1	····		NCENTRATION ( L or ug/Kg)	UNITS UG/L	S:	
CAS NUME	BER	СОМРО	UND NAME		RT	EST	. CONC.	Q
4		unknown		_	6.01		-	

#### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory N.IDEP Certification #13461

Data File Name

BNA04563.D

Sample Name

5784.04

1

Operator

100-02-7

4-Nitrophenol

Bhaskar

Misc Info

0CW2MW30

Date Acquired

16-Oct-00

Sample Multiplier

Regulatory Level (ug/L)\* CAS# Name R.T. Result MDL Response **Qualifiers** 110-86-1 Pyridine not detected NLE 1.54 ug/L 62-75-9 0.69 N-nitroso-dimethylamine not detected 20 ug/L 62-53-3 Aniline not detected NLE 1.85 ug/L 108-95-2 Phenol not detected 4000 0.52 ug/L bis(2-Chloroethyl)ether 111-44-4 not detected 10 0.63 ug/L 95-57-8 2-Chlorophenol not detected 40 0.61 ug/L 541-73-1 600 1,3-Dichlorobenzene not detected 0.62 ug/L 106-46-7 75 0.58 ug/L 1,4-Dichlorobenzene not detected ug/L 100-51-6 Benzyl alcohol not detected NLE 0.62 95-50-1 1.2-Dichlorobenzene not detected 600 0.65 ug/L 95-48-7 2-Methylphenol not detected NLE 0.59 ug/L 108-60-1 bis(2-chloroisopropyl)ether 300 0.57 ug/L not detected 106-44-5 not detected 4-Methylphenol NLE 0.48 ug/L 621-64-7 n-Nitroso-di-n-propylamine not detected 0.64 20 ug/L Hexachloroethane 67-72-1 10 0.34 not detected ug/L 98-95-3 Nitrobenzene not detected 10 0.51 ug/L ug/L 78-59-1 not detected 100 0.45 Isophorone 88-75-5 NLE 0.52 2-Nitrophenol not detected ug/L 105-67-9 0.93 2,4-Dimethylphenol not detected 100 ug/L 111-91-1 bis(2-Chloroethoxy)methane NLE 0.48 not detected ug/L 120-83-2 2,4-Dichlorophenol not detected 20 0.39 ug/L 65-85-0 NLE 1.15 Benzoic Acid not detected ug/L 120-82-1 1,2,4-Trichlorobenzene 9 0.54 not detected ug/L 91-20-3 Naphthalene not detected NLE 0.72 ug/L 106-47-8 4-Chloroaniline NLE 1.78 not detected ug/L 87-68-3 Hexachlorobutadiene not detected 0.43 1 ug/L 59-50-7 4-Chloro-3-methylphenol NLE 0.71 not detected ug/L 2-Methylnaphthalene 91-57-6 not detected NLE 0.55 ug/L 77-47-4 Hexachlorocyclopentadiene not detected 50 0.76 ug/L 88-06-2 2,4,6-Trichlorophenol 20 0.59 not detected ug/L 95-95-4 2,4,5-Trichlorophenol not detected 700 0.96 ug/L 91-58-7 2-Chloronaphthalene not detected NLE 0.53 ug/L ug/L 88-74-4 2-Nitroaniline not\_detected NLE 1.04 131-11-3 Dimethylphthalate not detected 7000 1.04 ug/L 208-96-8 Acenaphthylene not detected NLE 0.70 ug/L 606-20-2 2,6-Dinitrotoluene not detected NLE 0.92 ug/L 99-09-2 3-Nitroaniline NLE 1.93 ug/L not detected Acenaphthene 83-32-9 not detected 400 0.62 ug/L 51-28-5 2,4-Dinitrophenol 40 not detected 1.84 ug/L 132-64-9 Dibenzofuran NLE 0.73 not detected ug/L

1.41 119/1.

NLE

not detected

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04563.D

Operator

Bhaskar

Date Acquired

16-Oct-00

Sample Name

5784.04

Misc Info

0CW2MW30

Sample Multiplier

lier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	up/L	Quantiers
84-66-2	Diethylphthalate			not detected	5000	1.54		
86-73-7	Fluorene			not detected	300	0.98		
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86		
100-01-6	4-Nitroaniline			not detected	NLE	2.96		
534-52-1	4,6-Dinitro-2-methylphenol		-	not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28		
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene		·	not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24		
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	119/[.	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

#### 1F

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Field Id: TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name:	FMETL				_ Lab Co	de <u>13461</u>		UCW2M	W30
Project:	LTM	Ca	ase No.:	5784	Loca	tion: CW2	_ s	DG No.:	<del></del>
Matrix: (soil/	water)	WATER			1	Lab Sample	ID:	5784.04	
Sample wt/vo	ol:	1000	_ (g/ml)	ML	1	Lab File ID:		BNA04563.D	)
Level: (low/r	ned)	LOW	_		1	Date Receiv	/ed:	10/12/00	
% Moisture:		ded	canted: (Y	//N)	N	Date Extrac	ted:	10/13/00	
Concentrated	d Extract	Volume:	1000	(uL)	I	Date Analyz	zed:	10/16/00	
Injection Volu	ume: 1.6	0 (uL)			ł	Dilution Fac	tor:	1.0	<del></del>
GPC Cleanu	p: (Y/N)	N	pH:						
Number TICs	s found:	1			CONCE	NTRATION ug/Kg)	UNI UG/		
CAS NUME	BER	COMPO	UND NAM	ΛE		RT	ES	ST. CONC.	Q

#### Semi-Volatile Analysis Report

#### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name BNA04564.D

Sample Name

5784.05

Operator

Bhaskar

Misc Info

0CW2MW31

Date Acquired

16-Oct-00

Sample Multiplier

					Regulatory Level		
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54 us	e/L
62-75-9	N-nitroso-dimethylamine	<u> </u>		not detected	20	0.69 ա	g/L
62-53-3	Aniline			not detected	NLE	1.85 u	e/L
108-95-2	Phenol	1		not detected	4000	0.52 այ	e/L
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63 սչ	2/L
95-57-8	2-Chlorophenol			not detected	40	0.61 սյ	e/L
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62 ນຸ	e/L
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58 այ	e/L
100-51-6	Benzyl alcohol			not detected	NLE	0.62 և։	e/L
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65 այ	e/L
95-48-7	2-Methylphenol			not detected	NLE	0.59 այ	e/L
108-60-1	bis(2-chloroisopropyl)ether			not detected	300	0.57 us	e/L
106-44-5	4-Methylphenol			not detected	NLE	0.48 ևչ	g/IL
621-64-7	n-Nitroso-di-n-propylamine	1		not detected	_20	0.64 us	e/L
67-72-1	Hexachloroethane			not detected	10	0.34 սյ	e/L
98-95-3	Nitrobenzene			not detected	10	0.51 սյ	e/L
78-59-1	Isophorone			not detected	100	0.45 սյ	g/L
88-75-5	2-Nitrophenol			not detected	NLE	0.52 սյ	g/L
105-67-9	2,4-Dimethylphenol			not detected	100	0.93 ա	g/L
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48 կյ	g/L
120-83-2	2,4-Dichlorophenol			not detected	20	0.39 u	e/L
65-85-0	Benzoic Acid			not detected	NLE	1.15 u	g/L
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54 u	g/L
91-20-3	Naphthalene			not detected	NLE	0.72 սյ	g/L
106-47-8	4-Chloroaniline			not detected	NLE	1.78 u	e/L
87-68-3	Hexachlorobutadiene			not detected	1	0.43 սյ	g/L
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71 սյ	g/L
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55 ա	g/L
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76 ս,	g/L
88-06-2	2,4,6-Trichlorophenol	<u> </u>		not detected	20	0.59 ա	g/L
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96 u	g/L
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53 այ	g/L
88-74-4	2-Nitroaniline			not detected	NLE	1.04 u	e/L
131-11-3	Dimethylphthalate			not detected	7000	1.04 u	g/L
208-96-8	Acenaphthylene			not detected	NLE	0.70 և	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92 u	
99-09-2	3-Nitroaniline			not detected	NLE	1.93 u	
83-32-9	Acenaphthene			not detected	400	0.62 u	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84 u	
132-64-9	Dibenzofuran			not detected	NLE	0.73 u	
100-02-7	4-Nitrophenol	1	····	not detected	NLE	1.41 u	

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04564.D

Sample Name

5784.05

Operator

Bhaskar

Misc Info

0CW2MW31

Date Acquired

16-Oct-00

Sample Multiplier

Regulatory Level

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	·
84-74-2	Di-n-butylphthalate	<u> </u>		not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine	4		not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

#### 1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

r	IL	IU	IU	
_		_		

Lab Name:	FMETL		Lab Co	de <u>13461</u>		UCWZW	W31
Project:	LTM	Case No.: <u>5784</u>	Loca	tion: CW2	SI	DG No.:	
Matrix: (soil/	vater)	WATER		Lab Sample	e ID:	5784.05	
Sample wt/vo	ol:	1000 (g/ml) ML		Lab File ID:		BNA04564.D	)
Level: (low/r	ned)	LOW		Date Recei	ved:	10/12/00	<u> </u>
% Moisture:		decanted: (Y/N)	N	Date Extra	ted:	10/13/00	
Concentrated	d Extract	Volume: <u>1000</u> (uL)		Date Analy	zed:	10/16/00	·····
Injection Volu	ıme: <u>1.0</u>	O (uL) .		Dilution Fac	ctor:	1.0	
GPC Cleanu	p: (Y/N)	NpH:					
CONCENTRATION UNITS:  Number TiCs found: 2 (ug/L or ug/Kg) UG/L							
CAS NUME	BER	COMPOUND NAME		RT	ES	ST. CONC.	Q

1. unknown
2. 003687-45-4 9-Octadecenoic acid (Z)-, 9-octad

6.81

32.71

#### Semi-Volatile Analysis Report

#### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name BNA04565.D

Sample Name

5784.06

1

Operator

Bhaskar

Misc Info

0CW2MW32

Date Acquired

16-Oct-00

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		0. 75
110-86-1	Pyridine	T	Response	not detected	NLE		ug/L	<u>Qualifiers</u>
62-75-9	N-nitroso-dimethylamine			not detected	20		ug/L	
62-53-3	Aniline			not detected	NLE		ug/L ug/L	
108-95-2	Phenol	1		not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether		<del></del>	not detected	10		ug/L	
95-57-8	2-Chlorophenol		<del> </del>	not detected	40		ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600		ug/L	
106-46-7	1,4-Dichlorobenzene	1		not detected	75		ug/L	
100-51-6	Benzyl alcohol			not detected	NLE		ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600		ug/L	
95-48-7	2-Methylphenol			not detected	NLE		ug/L	
108-60-1	bis(2-chloroisopropyl)ether			not detected	300		ug/L	
106-44-5	4-Methylphenol			not detected	NLE		ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20		ug/L	
67-72-1	Hexachloroethane			not detected	10		ug/L	
98-95-3	Nitrobenzene			not detected	10		ug/L	
78-59-1	Isophorone			not detected	100		ug/L	
88-75-5	2-Nitrophenol			not detected	NLE		ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100		ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE		ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20		ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol		<u> </u>	not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol		·	not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE		ug/L	
99-09-2	3-Nitroaniline			not detected	NLE		ug/L	
83-32-9	Acenaphthene			not detected	400		ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40		ug/L	
132-64-9	Dibenzofuran			not detected	NLE		ug/L	
100-02-7	4-Nitrophenol			not detected	NLE		ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

Operator

BNA04565.D

Bhaskar

16-Oct-00

Sample Name

5784.06

Misc Info

0CW2MW32

Sample Multiplier

					Regulatory Level		
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41 ug/L	<u> </u>
84-66-2	Diethylphthalate			not detected	5000	1.54 ug/L	<u> </u>
86-73-7	Fluorene			not detected	300	0.98 ug/L	
7005-72-3	4-Chlorophenyl-phenylether		·	not detected	NLE	0.86 ug/L	<u> </u>
100-01-6	4-Nitroaniline			not detected	· NLE	2.96 ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10 ug/L	<u> </u>
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44 ug/L	<u> </u>
103-33-3	Azobenzene		<u> </u>	not detected	NLE	1.00 ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28 ug/L	
118-74-1	Hexachlorobenzene		<del></del>	not detected	10	1.08 ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74 ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73 ug/L	
120-12-7	Anthracene			not detected	2000	1.85 ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49 ug/L	
206-44-0	Fluoranthene			not detected	300_	1.48 ug/L	
92-87-5	Benzidine			not detected	50	2.15 ug/L	
129-00-0	Pyrene			not detected	200	1.53 ug/L	
85-68-7	Butylbenzylphthalate	ļ		not detected	100	1.24 ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68 ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60 ug/L	
218-01-9	Chrysene			not detected	20	1.14 ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate		·	not detected	30	1.34 ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug/L	
205-99-2	Benzo[b]fluoranthene	<u> </u>		not detected	10	1.32 ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15 ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43 ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24 ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94 ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04 ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

#### 1F

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field	ld:

Lab Name:	FMETL		Lab Co	de 13461		OCW2M	W32
Project:	LTM	Case No.: 5784	Loca	ion: CW2	SDGN	lo.:	
Matrix: (soil/	water)	WATER	<b>;</b>	_ab Sample	ID: <u>578</u> 4	4.06	
Sample wt/ve	ol:	1000 (g/ml) ML		_ab File ID:	BNA	04565.D	) ——
Level: (low/r	ned)	LOW	1	Date Receiv	ed: <u>10/1</u>	2/00	
% Moisture:		decanted: (Y/N)	N I	Date Extract	ed: 10/1	3/00	
Concentrate	d Extract	Volume: 1000 (uL)	1	Date Analyz	ed: <u>10/1</u>	6/00	
Injection Volu	ume: <u>1.</u>	0 (uL)	4	Dilution Fact	or: <u>1.0</u>		
GPC Cleanu	p: (Y/N)	NpH:	-				
			CONCE	NTRATION	UNITS:		
Number TICs	s found:	2	(ug/L or	ug/Kg)	UG/L		·
CAS NUME	BER	COMPOUND NAME		RT	EST. C	ONC.	Q
1 4	j	unknown		6 00		7	1

14.14

2. 000105-60-2

Caprolactam

#### Semi-Volatile Analysis Report

#### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name

BNA04568.D

Sample Name

5784.07

1

Operator

Bhaskar

Misc Info

0CW2MW33

16-Oct-00 Date Acquired

Sample Multiplier

Regulatory

G. G.		<b>5</b> .00	**	75 1/	Level (ug/L)*	107	
CAS#	Name	R.T.	Response	Result		MDL	<u>Qualifiers</u>
110-86-1	Pyridine			not detected	NLE	1.54 ug/L	<u> </u>
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69 ug/L	
62-53-3	Aniline			not detected	NLE	1.85 ug/L	
108-95-2	Phenol	+		not detected	4000	0.52 ug/L	
111-44-4	bis(2-Chloroethyl)ether	+		not detected	10	0.63 ug/L	ļ
95-57-8	2-Chlorophenol			not detected	40	0.61 ug/L	
541-73-1	1,3-Dichlorobenzene	╄	.,	not detected	600	0.62 ug/L	
106-46-7	1,4-Dichlorobenzene	+		not detected	75	0.58 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65 ug/L	<u> </u>
95-48-7	2-Methylphenol	1		not detected	NLE	0.59 ug/L	
108-60-1	bis(2-chloroisopropyl)ether	4		not detected	300	0.57 ug/L	
106-44-5	4-Methylphenol	4		not detected	NLE	0.48 ug/L	<u> </u>
621-64-7	n-Nitroso-di-n-propylamine	ļi		not detected	20	0.64 ug/L	
67-72-1	Hexachloroethane	1		not detected	10	0.34 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51 ug/L	
78-59-1	Isophorone			not detected	100	0.45 ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93 ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15 ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54 ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78 ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70 ug/L	
606-20-2	2,6-Dinitrotoluene	1		not detected	NLE	0.92 ug/L	
99-09-2	3-Nitroaniline	$\top$		not detected	NLE	1.93 ug/L	<del>                                     </del>
83-32-9	Acenaphthene	$\top$		not detected	400	0.62 ug/L	<del> </del>
51-28-5	2,4-Dinitrophenol	+		not detected	400	1.84 ug/L	<del>                                     </del>
		1				·	<del> </del>
	<del></del>	+ -					<del> </del>
132-64-9 100-02-7	Dibenzofuran 4-Nitrophenol			not detected not detected	NLE NLE	0.73 ug/L 1.41 ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name BNA04568.D

Operator

Bhaskar

Date Acquired

16-Oct-00

Sample Name

5784.07

Misc Info

0CW2MW33

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate			not detected	5000	1.54	ug/L	
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE		ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	_1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene	,		not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene Chrysene		<del></del>	not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate		L	not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate	<u> </u>	·	not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	1		not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

1F

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVEL V	IDENTIFIED	COMPOLINIDE
TENTATIVELY	INCIDITION	COMPONIAD2

Field Id:

6

57

JN

JN

Lab Name:	FMETL	·	Lab Co	de <u>13461</u>		UCVVZIVI	W33
Project:	LTM	Case No.: <u>5784</u>	Locat	tion: CW2	_ SD	G No.:	
Matrix: (soil/	water)	WATER	i	Lab Sample	ID: 5	784.07	
Sample wt/v	ol:	1000 (g/ml) ML	<u></u>	Lab File ID:	E	3NA04568.D	)
Level: (low/r	ned)	LOW	1	Date Receiv	ed: 1	0/12/00	·
% Moisture:		decanted: (Y/N)	<u>N</u>	Date Extract	ted: 1	0/13/00	
Concentrate	d Extract	Volume: 1000 (uL)	1	Date Analyz	ed: <u>1</u>	0/16/00	<del></del>
Injection Vol	ume: <u>1.</u> 0	0 (uL)	ł	Dilution Fac	tor: 1	.0	
GPC Cleanu	p: (Y/N)	NpH:					
			CONCE	NTRATION	UNIT	<b>3</b> :	
Number TIC:	s found:	3	(ug/L or	ug/Kg)	UG/L	<u> </u>	
CAS NUME	BER	COMPOUND NAME	,	RT	EST	. CONC.	Q
1.		unknown		6.80		7	J

9-Octadecenoic acid (Z)-, 9-octad

27.50

32.73

000112-92-5

003687-45-4

#### Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client:

U.S. Army

Lab. ID#:

PBLK606

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

10/16/00

Ft. Monmouth, NJ 07703

Analysis Date:

10/16/00

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1	-	0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	· ND
Dieldrin	1		0.03	0.0020	ND
Endrin .	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

PQL = Practical Quantitation Limit

Client:

U.S. Army

Lab. ID #:

5784.02

DPW, SELFM-PW-EV

Date Rec'd:

3707.02

Bldg. 173

**Extraction Date:** 

10/12/00 10/16/00

Ft. Monmouth, NJ 07703

Analysis Date:

10/17/00

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

Analyst:

Aqueous

Anatyst:

T. Frankovich

Field ID:

Field Blank

Ext. Meth:

Sep. Funnel

Ext. Mein: Sep. Full					
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

5784.03

DPW, SELFM-PW-EV

Date Rec'd:

10/12/00

Bldg. 173

**Extraction Date:** 

10/16/00

Ft. Monmouth, NJ 07703

Analysis Date:

10/17/00

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

Dupe

Analyst:

T. Frankovich

Field ID:

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1	-	0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND <sup>.</sup>
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochior 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

5784.04

DPW, SELFM-PW-EV

Date Rec'd:

10/12/00

Bldg. 173

**Extraction Date:** 

10/16/00

Ft. Monmouth, NJ 07703

Analysis Date:

10/17/00

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

Field ID:

0CW2MW30

Analyst:

T. Frankovich

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1	-	NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0,0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

5784.05

DPW, SELFM-PW-EV

Date Rec'd:

10/12/00

Bldg. 173

**Extraction Date:** 

10/16/00

Ft. Monmouth, NJ 07703

Analysis Date:

10/17/00

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

ID: C0CW2MW31

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	_1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochior 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

5784.06

DPW, SELFM-PW-EV

Date Rec'd:

10/12/00

Bldg. 173

**Extraction Date:** 

10/16/00

Ft. Monmouth, NJ 07703

**Analysis Date:** 

10/17/00

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

Field ID:

0CW2MW32

Analyst:

T. Frankovich

Ext. Meth: Sep. Funnel							
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)		
alpha-BHC	1		0.02	0.0011	ND		
beta-BHC	1		0.20	0.0050	ND		
gamma-BHC	1		0.20	0.0013	ND		
delta-BHC	1		NLE	0.0016	ND		
Heptachlor	1		0.40	0.0035	ND		
Aldrin	1		0.04	0.0026	ND		
Heptachlor Epoxide	1		0.20	0.0020	ND		
Endosulfan I	1		0.40	0.0016	ND		
4,4'-DDE	1		0.10	0.0021	ND		
Dieldrin	1		0.03	0.0020	ND		
Endrin	1		2.00	0.0032	ND		
Endrin Ketone	1		NLE	0.0026	ND		
Endosulfan II	1		0.40	0.0022	ND		
4,4'-DDD	1		0.10	0.0020	ND		
4,4'-DDT	1		0.10	0.0052	ND		
Endosulfan-Sulfate	1		0.40	0.0026	ND		
Alpha-chlordane	1		0.50	0.0036	ND		
Gamma-chlordane	1		0.50	0.0007	ND		
Toxaphene	. 1		3.00	0.1517	ND		
Arochlor 1016	1		0.50	0.0683	ND		
Arochlor 1221	1		0.50	0.0666	ND		
Arochlor 1232	1		0.50	0.0648	ND		
Arochlor 1242	1		0.50	0.0485	ND		
Arochlor 1248	1		0.50	0.0544	ND		
Arochlor 1254	1		0.50	0.0608	ND		
Arochlor 1260	1		0.50 .	0.0732	ND		

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

5784.07

DPW, SELFM-PW-EV

Date Rec'd:

10/12/00

Bldg. 173

**Extraction Date:** 

10/16/00

Ft. Monmouth, NJ 07703

Analysis Date:

10/17/00

Analysis:

EPA Method 608

Location:

CW2

Matrix:

Aqueous

Field ID:

0CW2MW33

Analyst:

T. Frankovich

Ext. Meth: Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client: U.S. Army

Lab ID #: 5784

DPW, SELFM-PW-EV

Sample Prepared: 10/17/00

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-2

Field ID#: Method Blank

Ft. Monmouth, New Jersey

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
·	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/19/00	12.2	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	ND	8	2.0
Barium	10/19/00	ND	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	85.3	NLE	20.0
Chromium	10/19/00	ND	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	ND	1000	2.0
Iron	10/19/00	28.8	300	2.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	ND	NLE	10.0
Manganese	10/19/00	ND	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	ND	100	1.0
Potassium	10/19/00	ND	NLE	40.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	171	50000	20.0
Thallium	10/19/00	ND	10	2.0
Vanadium	10/19/00	0.584	NLE	0.5
Zinc	10/19/00	12.5	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5784.02

Sample Received: 10/12/00

Sample Matrix: Aqueous

Site:

CW-2

Field ID#: Field Blank

Ft. Monmouth, New Jersey

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL ·
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/19/00	30.8	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	ND	8	2.0
Barium	10/19/00	ND	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	126	NLE	20.0
Chromium	10/19/00	ND	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	ND	1000	2.0
Iron	10/19/00	ND	300	2.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	ND	NLE	10.0
Manganese	10/19/00	ND	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	ND	100	1.0
Potassium	10/19/00	ND	NLE	40.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	ND	50000	20.0
Thallium	10/19/00	ND	10	2.0
Vanadium	10/19/00	ND	NLE	0.5
Zinc	10/19/00	ND	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

<sup>\*</sup> Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5784.03

Sample Received: 10/12/00

Sample Matrix: Aqueous

Site:

CW-2

Field ID#: Dupe

Ft. Monmouth, New Jersey

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/19/00	110	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	2.43	8	2.0
Barium	10/19/00	146	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	36200	NLE	20.0
Chromium	10/19/00	1.63	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	ND	1000	2.0
Iron	10/19/00	40900	300	2.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	4680	NLE	10.0
Manganese	10/19/00	183	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	ND	100	1.0
Potassium	10/19/00	9490	NLE	40.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	20400	50000	20.0
Thallium	10/19/00	ND	10	2.0
Vanadium	10/19/00	1.52	NLE	0.5
Zinc	10/19/00	26.9	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Client: U.S. Army

Lab ID #: 5784.04

DPW, SELFM-PW-EV

Sample Received: 10/12/00

Bldg. 173

Ft. Monmouth, NJ 07703

Sample Matrix: Aqueous

Site:

CW-2

Field ID#: 0CW2MW30

Ft. Monmouth, New Jersey

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
·	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/19/00	100	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	3.95	8	2.0
Barium	10/19/00	67.0	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	67000	NLE	20.0
Chromium	10/19/00	3.00	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	35.4	1000	2.0
Iron	10/19/00	8150	300	2.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	5060	NLE	10.0
Manganese	10/19/00	39.1	50	0.5
Mercury	10/17/00	ND	2	0,1
Nickel	10/19/00	1.95	100	1.0
Potassium	10/19/00	8770	NLE	40.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	20200	50000	20.0
Thallium	10/19/00	ND	10	2.0
Vanadium	10/19/00	2.67	NLE	0.5
Zinc	10/19/00	38.1	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 5784.05

Sample Received: 10/12/00

Sample Matrix: Aqueous

Site:

CW-2

Field ID#: 0CW2MW31

Ft. Monmouth, New Jersey

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/19/00	20.6	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	ND	8	2.0
Barium	10/19/00	288	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	49800	NLE	20.0
Chromium	10/19/00	0.968	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	6.12	1000	2.0
Iron	10/19/00	62100	300	2.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	6170	NLE	10.0
Manganese	10/19/00	294	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	ND	100	1.0
Potassium	10/19/00	9980	NLE	40.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	11300	50000	20.0
Thallium	10/19/00	ND	10	2.0
Vanadium	10/19/00	ND	NLE	0.5
Zinc	10/19/00	27.3	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

\* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Client: U.S. Army

Lab ID #: 5784.06

DPW, SELFM-PW-EV

Sample Received: 10/12/00

Bldg. 173

Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

Site:

CW-2

Field ID#: 0CW2MW32

Ft. Monmouth, New Jersey

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/19/00	238	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsénic	10/19/00	4.55	8	2.0
Barium	10/19/00	166	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	73300	NLE	20.0
Chromium	10/19/00	3.05	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	31.0	1000	2.0
Iron	10/19/00	39900	300	2.0
Lead	10/19/00	ND	10	1.0
Magnesium	10/19/00	7890	NLE	10.0
Manganese	10/19/00	326	50	0.5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	2.71	100	1.0
Potassium	10/19/00	8360	NLE	40.0
Selenium	10/19/00	ND	50	3.0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	14800	50000	20.0
Thallium	10/19/00	ND	10	2.0
Vanadium	10/19/00	6.87	NLE	0.5
Zinc	10/19/00	119	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established

<sup>\*</sup> Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

Client: U.S. Army

Lab ID #: 5784.07

DPW, SELFM-PW-EV

Sample Received: 10/12/00

Bldg. 173

Sample Matrix: Aqueous

Ft. Monmouth, NJ 07703

- -

Site:

CW-2

Field ID#: 0CW2MW33

Ft. Monmouth, New Jersey

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	10/19/00	109	200	10.0
Antimony	10/19/00	ND	20	2.0
Arsenic	10/19/00	3.69	8	2.0
Barium	10/19/00	144	2000	0.5
Beryllium	10/19/00	ND	20	0.5
Cadmium	10/19/00	ND	4	0.5
Calcium	10/19/00	37300	NLE	20.0
Chromium	10/19/00	1.17	100	0.5
Cobalt	10/19/00	ND	NLE	0.5
Copper	10/19/00	165	1000	2.0
Iron	10/19/00	38800	300	2.0
Lead	10/19/00	29.7	10	1.0
Magnesium	10/19/00	4720	NLE	10.0
Manganese	10/19/00	· 188	50	0,5
Mercury	10/17/00	ND	2	0.1
Nickel	10/19/00	4.79	100	1.0
Potassium	10/19/00	9320	NLE	40.0
Selenium	10/19/00	ND	50	3,0
Silver	10/19/00	ND	20	1.0
Sodium	10/19/00	19800	50000	20.0
Thallium	10/19/00	ND	10	2.0
Vanadium	10/19/00	1.40	NLE	0.5
Zinc	10/19/00	257	5000	5.0

ND = Not Detected, MDL = Method Detection Limit, NLE = No Limit Established \* Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9-6

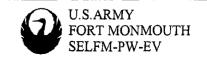
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	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water			Notes	
Units:	-	ug/l	ug/l	ug/l	ug/l	ugl	Feet	 			$\ $
NJDEP Criteria:	-	300	50	200	8	10	-	 	1		1
04/24/1997	FMETL	9100	69	ND	ND	ND	6.45			V,S,P,M	1
07/10/1997	FMETL	12590	73	25	5.0	ND	7.05			V,S,P,M	1
10/22/1997	FMETL	34800	171	: 175	5.0	5.0	7.60	 †·		V,S,P,M	1
01/08/1998	FMETL	2795	5.0	204	ND '	4.0	5.20			V,S,P,M	1
04/07/1998	FMETL	3504	39.3	196	5.6	ND	6.56			V,S,P,M	7
07/14/1998	FMETL'	10900	57.8	65.7	ND	ND	6.89			V,S,P,M	71
11/24/1998	FMETL	27500	182	ND	11.5	3.15	7.86			V,S,P,M	7
02/11/1999	FMETL	11000	100	505	8.3	ND	7.24			V,S,P,M	71
06/09/1999	FMETL	8210	145	521	6.33	ND	7.21			V,S,P,M	]
08/04/1999	FMETL	44800	212	304	9.05	6.02	7.43			V,S,P,M	]
11/03/1999	FMETL	6540	36.3	92.7	6.06	ND	7.02			V,S,P,M	
02/15/2000	FMETL	1840	2.69	20.4	ND	ND	7.02			V,S,P,M	
05/08/2000	FMETL	7410	73.1	105	ND	46.6	7.15			V,S,P,M	
05/08/2000D	FMETL	8090	74.9	133	ND	13.7	7.15			V,S,P,M	
08/02/2000	FMETL	2040	15.2	ND	ND	21.8	6.86			V,S,P,M	
10/12/2000	FMETL	8150	39.4	100	3.95	ND	7.31			V,S,P,M	

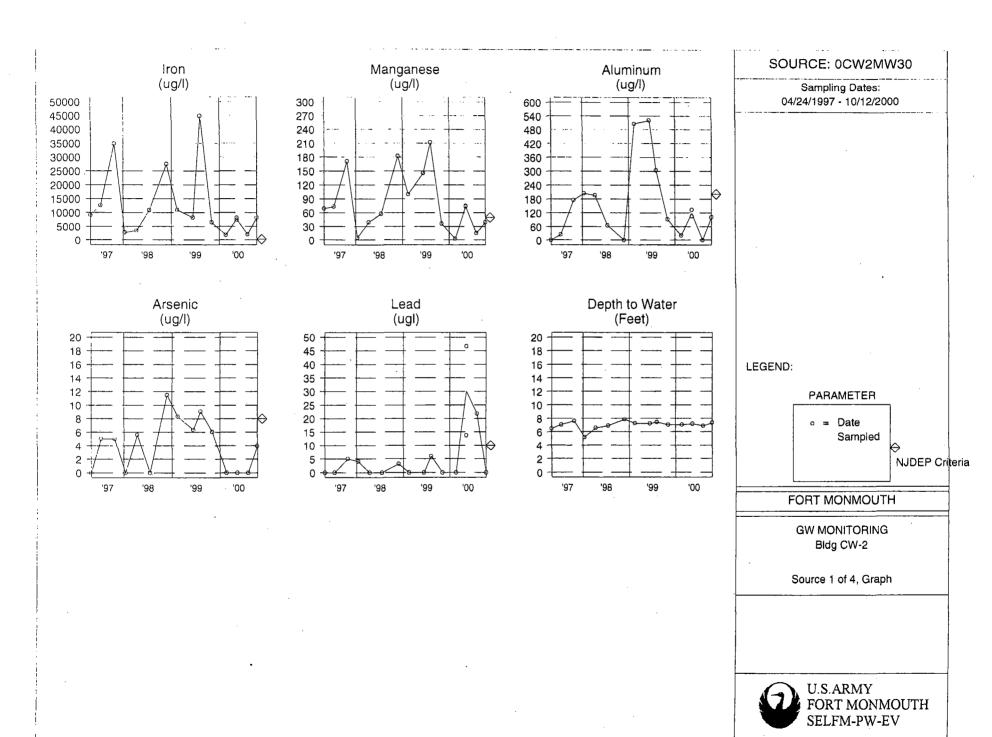
SOURCE: 0CW2MW30	
Sampling Dates:	
04/24/1997 - 10/12/2000	
NOTES:	

### FORT MONMOUTH

GW MONITORING Bldg CW-2

Source 1 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water		Notes
! Units:	-	ug/l	ug/l	ug/l	ug/l	ugi	Feet		
NJDEP Criteria:		300	50	200	8	10	-		-
04/24/1997	FMETL	59900	277	ND	ND	ND	6.38		 V,S,P,M
07/10/1997	FMETL	11830	267	ND	1.0	ND	7.00		V,S,P,M
10/22/1997	FMETL	52300	243	93	ND	6.0	7.50	-	V,S,P,M
01/08/1998	FMETL	68450	240	129	ND	25	6.30		 V,S,P,M
04/07/1998	FMETL	115100	266	ND	ND	ND	6.35		V,S,P,M
07/14/1998	FMETL	83600	311	390	ND	4.85	6.71		V,S,P,M
11/24/1998	FMETL	72800	322	ND	ND	2.33	7.78		V,S,P,M
02/11/1999	FMETL	71900	316	ND	ND.	ND	7.07		V,S,P,M
06/09/1999	FMETL	104000	326	27.9	ND	ND	7.15		V,S,P,M
08/04/1999	FMETL	77500	347	ND	ND	ND	7.65		V,S,P,M
11/03/1999	FMETL	64600	309	14.9	ND	ND	7.18		V,S,P,M
02/15/2000	FMETL	111000	301	11.7	ND	ND	7.03		V,S,P,M
05/08/2000	FMETL	86000	343	ND	ND	ND	6.96		V,S,P,M
08/02/2000	FMETL	68900	294	14.7	ND	2.44	6.73		V,S,P,M
10/12/2000	FMETL	62100	294	20.6	ND	ND	7.16		V,S,P,M

SOURCE:	oCW2MW3
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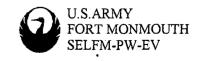
Sampling Dates: 04/24/1997 - 10/12/2000

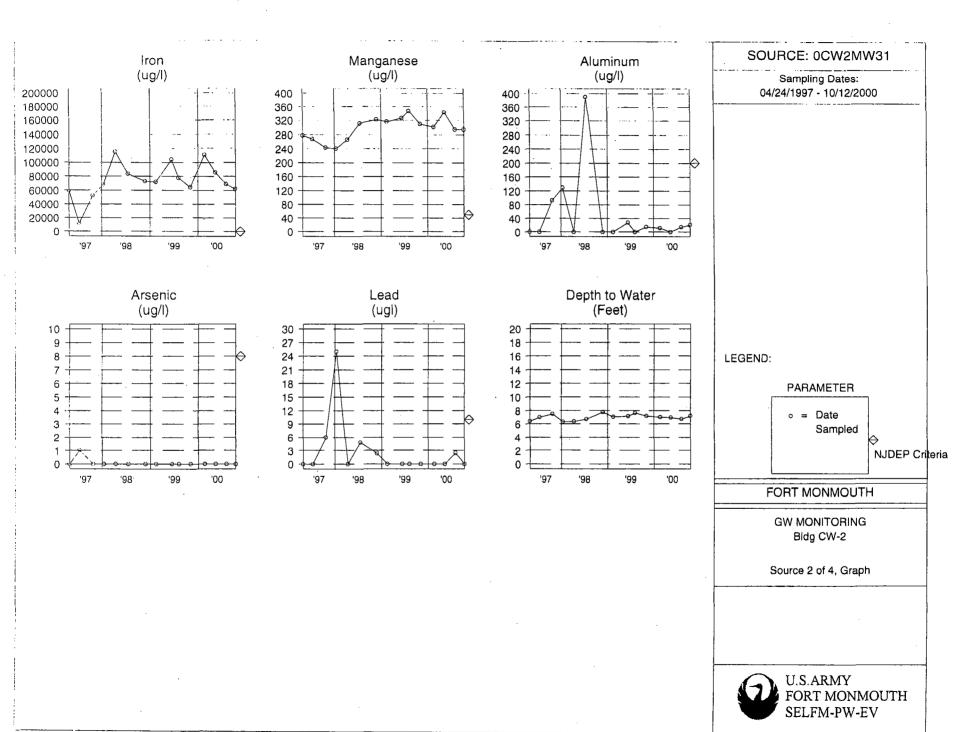
NOTES:

### FORT MONMOUTH

GW MONITORING Bldg CW-2

Source 2 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water			Notes
Units:		ug/l	ug/l	ug/l	ug/l	ugl	Feet	 	· · · • • •	
NJDEP Criteria:	-	300	50	200	8	10	-	 		
04/24/1997	FMETL	18400	125	ND	ND	ND	6.65			V,S,P,M
07/10/1997	FMETL	270	181	595	ND	ND	. 7.20			V,S,P,M
10/22/1997	FMETL	51100	260	297	ND	7.0	7.70			V,S,P,M
01/08/1998	FMETL	1484	3.7	163	ND	ND	4.50			V,S,P,M
04/07/1998	FMETL	19280	287	ND	ND	ND	6.81			V,S,P,M
07/14/1998	FMETL	67500	287	78.1	2.51	3.99	7.06			V,S,P,M
11/24/1998	FMETL	106000	342	166	9.32	4.08	7.94			V,S,P,M
02/11/1999	FMETL	4480	7.02	137	ND	ND	7.33			V,S,P,M
06/09/1999	FMETL	64300	310	59.5	ND	ND	7.49			V,S,P,M
08/04/1999	FMETL	76000	369	67.4	ND	ND	7.85			V,S,P,M
11/03/1999	FMETL	11500	27	162	4.09	ND	6.53			V,S,P,M
02/15/2000	FMETL	11300	53.9	95.7	ND	ND	6.54			V,S,P,M
02/15/2000D	FMETL	112000	297	53.1	ND	ND	6.54			V,S,P,M
05/08/2000	FMETL	55700	382	51.4	ND	ND	7.29			V,S,P,M
08/02/2000	FMETL	4700	8.74	21.8	4.14	2.96	5.93			V,S,P,M
08/02/2000D	FMETL	4130	7.99	28.1	ND	38.3	5.93			V,S,P,M
10/12/2000	FMETL	39900	326	238	4.55	ND	7.35	 		V,S,P,M

SO	URCE:	0CM	/2MW32
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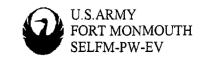
Sampling Dates: 04/24/1997 - 10/12/2000

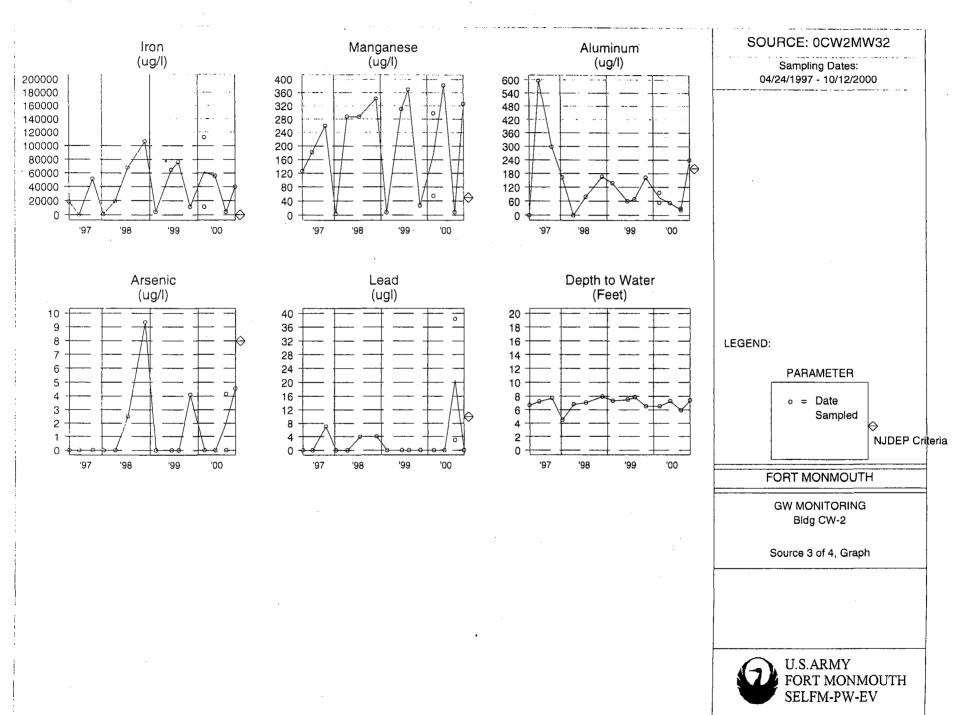
NOTES:

### FORT MONMOUTH

GW MONITORING Bldg CW-2

Source 3 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water		 Notes
Units:	 -	ug/l	ug/l	ug/l	ug/l	ugl	Feet	 	 •
NJDEP Criteria:	-	300	50	200	8	10	-		 •
04/24/1997	FMETL	88600	424	ND	ND	ND	8.95		 V,S,P,M
07/10/1997	FMETL	10260	519	2.1	1.0	ND	9.10		 V,S,P,M
10/22/1997	FMETL	26800	151	94	ND	4.0	9.10		V,S,P,M
01/08/1998	FMETL	104700	342	217	6.0	4.0	9.00	<u> </u>	V,S,P,M
04/07/1998	FMETL	19780	110	119	3.4	ND	9.50		V,S,P,M
07/14/1998	FMETL	35900	130	411	ND	4.19	9.09	,	V,S,P,M
11/24/1998	FMETL	25400	87.8	125	ND	ND	9.13		V,S,P,M
02/11/1999	FMETL	11300	81.2	67.8	ND	ND	8.13		V,S,P,M
06/09/1999	FMETL	69600	214	336	5.82	ND	9.13		V,S,P,M
08/04/1999	FMETL	35900	149	69	8	3,25	9.15		V,S,P,M
11/03/1999	FMETL	19500	47.2	52.8	ND	ND	6.14		V,S,P,M
02/15/2000	FMETL	54400	201	96.2	2,67	3.77	9.09		V,S,P,M
05/08/2000	FMETL	36500	242	29.3	ND	ND	8.13		V,S,P,M
08/02/2000	FMETL	13400	81.4	38.2	ND	1.50	9.12		V,S,P,M
10/12/2000	FMETL	38800	188	109	3.69	29.7	9.11		V,S,P,M
10/12/2000D	FMETL	40900	183	110	2.43	ND.	9.11		V,S,P,M

### SOURCE: 0CW2MW33

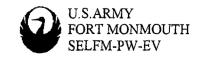
Sampling Dates: 04/24/1997 - 10/12/2000

NOTES:

### FORT MONMOUTH

GW MONITORING Bldg CW-2

Source 4 of 4



## FORT MONMOUTH ENVIRONMENTAL

## **TESTING LABORATORY**

DIRECTORATE OF PUBLIC WORKS

PHONE: (732)532-6224 FAX: (732)532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING



ANALYTICAL DATA REPORT **FOR** Directorate of Public Works Fort Monmouth, NJ 07703

PROJECT: DERA/Long Term Monitoring

### **SAMPLE LOCATION AND IDENTIFICATION**

SITE: CW-2

LABORATORY ID#	MONITOR WELL#	NJDEP WELL ID#	SAMPLE DATE
53/146	0CW2MW30	29-32594	01/11/01
54/147	0CW2MW31	29-32595	01/11/01
55/148	0CW2MW32	29-32596	01/11/01
56/149	0CW2MW33	29-32597	01/11/01

NJDEP Laboratory Certification # 13461

Daniel Wright/Date: Laboratory Director

2-7-01

## METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST	Standard Methods, 18 <sup>th</sup> ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3120B
Barium	3120B
Beryllium	3120B
Cadmium	3120B
Calcium	3120B
Chromium	3120B
Cobalt	3120B
Copper	3120B
Iron	3120B
Lead	3120B
Magnesium	3120B
Manganese	3120B
Mercury	3112B
Nickel	3120B
Potassium	3120B
Selenium	3120B
Silver	3120B
Sodium	3120B
Thallium	3120B
Vanadium	3120B
Zinc	3120B
TARGET COMPOUND LIST	Federal Register 40 CFR Part 136 Appendix A
Base/Neutrals and Acid	625
Extractables by GC/MS	
Purgeable Organcis by GC/MS	624
Pesticides and PCB's by GC	608



## Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

	Custom	er: J, f	Allow		Proj	ect No:					,		Anal	ysis I	Param	eters			Comments:	
	Phone #:	() AMO()	<u> </u>		Location: CW2 wells 1st artr 01				15	TAL MILS	Pest 1903	8UA t25				Rud	HCL/HNO3	K4°C		
	Samplers	Name / Con	npany: (	To 11 M. Cox	macl	( ,71	2S	Sam	ple	#	Votis	74	st	ካለ				H. A		
	Lab Sar	nple I.D.	Sample	Location	1	Date	Time	Ту	pe	bottles	7	7	2	8				7	Remarks / Preservatio	n Method
	.50	.01	Trip	0	1/1	11/01	0700	AC	ર	2	/							_	Test	143
$\mathcal{C}$	51	, 02	Field	Blank			1350			5	~	V	レ	<u></u>			<u> </u>	_		144
0	12	.03	Dup	e						5	/	_	v	<u></u>				_		145
7	<i>3</i> 3	,04	CWIA	N W 30			1317			5	~	~		<u></u>					29-32594	146
L	54	,०४	CWZI	m W31			1310				·-	<u> </u>		<u>ر</u>	·				29-32595	:47
S	55	.06	CW2 1			·	1315				/	_	<u>ر</u>	レ			<u></u>		29-3259-6	148
70	56	70,	CWZ	mw33 *	\		1252	1		V	~	س		<u>٧</u>				0.0	29-32597	149
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		_ \ _	<b>/</b>	andard, ()Screen			· <del></del>				Remarks: Shus -			us T	T/FB/Dy w/ 643# Som dota 800 +949 cm					

LOCATION: CW-2 MW#: 0CW2MW30 NJDEP ID #: 29-32594 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 01/11/01

WEATHER: Sunny, cold.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.71 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 7.32 ft** DEPTH OF WELL: 17.95 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 10.63 ft (10.63) X .65 X 3 = 20.72

GALLONS OF H2O TO BE PURGED: 21 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 11:45** 

pH 6.88 su

TEMP 12.5 °C

DISSOLVED O2 5.81 ppm

SPECIFIC CONDUCTIVITY 123 us/cm

PURGE END TIME: 13:16

pH 6.81 su

TEMP 12.1 °C

DISSOLVED O2 5.11 ppm

SPECIFIC CONDUCTIVITY 117 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 11.83 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER) TOTAL VOLUME PURGED: 21 gal

**SAMPLE START TIME: 13:17** 

pH 6.82 su

TEMP 12.2 °C

DISSOLVED O2 5.11 ppm

SPECIFIC CONDUCTIVITY 117 us/cm

SAMPLE END TIME: 13:20

COMMENTS:

LOCATION: CW-2 MW#: 0CW2MW31 NJDEP ID #: 29-32595 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 01/11/01

WEATHER: Sunny, cold.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.88 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 7.16 ft** DEPTH OF WELL: 16.91 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 9.75 ft (9.75) X .65 X 3 = 19.01

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

PURGE START TIME: 11:47

pH 6.89 su

**TEMP 12.7 °C** 

DISSOLVED O2 5.84 ppm

SPECIFIC CONDUCTIVITY 111 us/cm

PURGE END TIME: 13:09

pH 6.81 su

TEMP 12.1 °C

DISSOLVED O2 5.10 ppm

SPECIFIC CONDUCTIVITY 107 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.35 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER) TOTAL VOLUME PURGED: 19 gal

**SAMPLE START TIME: 13:10** 

pH 6.80 su

TEMP 12.2 °C

DISSOLVED O2 5.07 ppm

SPECIFIC CONDUCTIVITY 108 us/cm

SAMPLE END TIME: 13:14

COMMENTS: Cloudy, yellow.

LOCATION: CW-2 MW#: 0CW2MW32 NJDEP ID #: 29-32596 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 01/11/01

WEATHER: Sunny, cold.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.38 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 6.98 ft** DEPTH OF WELL: 16.89 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 9.91 ft (9.91) X .65 X 3 = 19.32

GALLONS OF H2O TO BE PURGED: 19 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 11:49** 

pH 6.93 su

TEMP 12.4 °C

DISSOLVED O2 5.89 ppm

SPECIFIC CONDUCTIVITY 107 us/cm

PURGE END TIME: 13:11

pH 6.87 su

TEMP 12.0 °C

DISSOLVED O2 5.25 ppm

SPECIFIC CONDUCTIVITY 104 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 14.41 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER) TOTAL VOLUME PURGED: 19 gal

SAMPLE START TIME: 13:15

pH 6.86 su

TEMP 12.0 °C

DISSOLVED O2 5.23 ppm

SPECIFIC CONDUCTIVITY 103 us/cm

SAMPLE END TIME: 13:17

COMMENTS: Large drain down. Slightly cloudy.

LOCATION: CW-2 MW#: 0CW2MW33 NJDEP ID #: 29-32597 NJDEP CERT #: 13461

SAMPLING CONTRACTOR: TVS SAMPLER: Corey McCormack

DATE: 01/11/01

WEATHER: Sunny, cold.

TIDE: N/A

LNAPLs: N DNAPLs N

ELEV. OF INNER CASING SURVEY MARK: 51.09 ft

INNER CASING DIA.: 4 INCH **DEPTH TO WATER: 9.14 ft** DEPTH OF WELL: 16.10 ft

DEPTH TO TOP OF SCREEN: N/A ft

HEIGHT OF WATER: 6.96 ft (6.96) X .65 X 3 = 13.57

GALLONS OF H2O TO BE PURGED: 14 gal

PURGE METHOD: (FLOW OF <0.5 TO >5.0 gpm): PERISTALTIC

PURGE RATE: 0.23 gpm Hnu READING: 0.0 ppm

**PURGE START TIME: 11:50** 

pH 6.84 su

TEMP 12.7 °C

DISSOLVED O2 5.87 ppm

SPECIFIC CONDUCTIVITY 127 us/cm

PURGE END TIME: 12:51

pH 6.89 su

TEMP 12.2 °C

DISSOLVED O2 5.23 ppm

SPECIFIC CONDUCTIVITY 117 us/cm

DEPTH TO H2O AFTER PURGE AND BEFORE SAMPLING: 9.61 ft

(SAMPLING METHOD: DEDICATED (LAW NJDEP FSPM 1992) TEFLON ® BAILER) TOTAL VOLUME PURGED: 14 gal

**SAMPLE START TIME: 12:52** 

pH 6.90 su

TEMP 12.3 °C

DISSOLVED O2 5.21 ppm

SPECIFIC CONDUCTIVITY 116 us/cm

**SAMPLE END TIME: 12:57** 

COMMENTS: Cloudy, orange particles. DUP. Here.

## US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY NJDEP CERTIFICATION # 13461

## **Definition of Qualifiers**

MDL: Method Detection Limit

J: Compound identified below detection limit

B : Compound found in blank

D: Results are from a dilution of the sample
 U: Compound searched for but not detected
 E: Compound exceeds calibration limit

PQL: Practical Quantitation Limit

NLE: No limit established

RT: Retention time

## Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification Number #13461

Data File

Date Aquired

VC004692.D

11-Jan-01

Operator Skelton

Sample Name

MB 011101 MB 011101

Field ID Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78_ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	<u> </u>
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene		ļ	not detected	2	0.24 ug/L	
67-64-1	Acetone	·	L	not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
<u>156-60-5</u>	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	<u> </u>
75-34-3	1,1-Dichloroethane		ļ	not detected	70	0.12 ug/L	<u> </u>
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	<u> </u>
78-93-3	2-Butanone			not detected	300	0.62 ug/L	<u> </u>
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	<u> </u>
67-66-3	Chloroform			not detected_	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	<u> </u>
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	<u> </u>
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane		<u> </u>	not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane		<u> </u>	not detected	1	0.55 ug/L	<u> </u>
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone	<u>-</u>	<u> </u>	not detected	400	0.59 ug/L	
108-88-3	Toluene	<del></del> .	<u> </u>	not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane		<u> </u>	not detected	3	0.48 ug/L	<u> </u>
127-18-4	Tetrachloroethene			not detected	11	0.32 ug/L	<u> </u>
591-78-6	2-Hexanone		<u> </u>	not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane		ļi	not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene	··		not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	L
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	<u> </u>
75-25-2	Bromoform			not_detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

|--|

Lab Name:	FMETL		NJDEP#: 1:	3461	MB UII	101
Project:	LTM	Case No.: 50-56	Location:	CW2	SDG No.:	
Matrix: (soil/	water)	WATER	Lab S	Sample II	D: MB 011101	
Sample wt/v	ol:	5.0 (g/ml) ML	Lab F	ile ID:	VC004692.D	
Level: (low/r	med)	LOW	Date	Received	d: <u>1/11/01</u>	
% Moisture:	not dec.		Date A	Analyzed	d: <u>1/11/01</u>	
GC Column:	RTX5	02. ID: <u>0.25</u> (mm)	Dilutio	on Factor	r: <u>1.0</u>	
Soil Extract \	Volume:	(uL)	Soil A	diquot Vo	olume:	(uL)
Number TIC	s found:		CONCENTRATIO	UG/L	S:	
CAS NO.		COMPOUND NAME	F	RT I	EST. CONC.	Q

## Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification Number #13461

Data File

VC004704.D

Operator Date Aquired Skelton 12-Jan-01 Sample Name Field ID 50 143 Trip Blank

Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol	I		not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane	I		not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01_ug/ <b>L</b>	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride	11.17	128744	1.92 ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane	1		not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	Ţ
75-55-6	1,1,1-Trichloroethane	1		not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			. not detected	2	0.47 ug/L	
71-43-2	Benzene.			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene	I		not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle '	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane	<u> </u>		not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7_	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform	1		not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene	1		not detected	600	0.64 ug/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established R.T. = Retention Time

### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	FIELD ID:
Γ	Triba Disaste

Lab Name:	FMETL	·	NJDEP#: 13461	
Project:	LTM	Case No.: 50-56	Location: CW2 SDG No.:	_
Matrix: (soil/	water)	WATER	Lab Sample ID: 50 143	_
Sample wt/ve	ol:	5.0 (g/ml) ML	Lab File ID: VC004704.D	
Level: (low/r	med)	LOW	Date Received: 1/11/01	
% Moisture:	not dec.		Date Analyzed: 1/12/01	
GC Column:	RTX5	02. ID: 0.25 (mm)	Dilution Factor: 1.0	
Soil Extract \	Volume:	(uL)	Soil Aliquot Volume: (u	ıL)
		cc	DNCENTRATION UNITS:	
Number TICs	s found:	<u>0</u> (uç	n/L or ug/Kg) UG/L	
CAS NO.		COMPOUND NAME	RT EST. CONC. Q	

## Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification Number #13461

Data File Operator VC004705.D

Skelton

Sample Name

51 144 Field Blank

Date Aquired

12-Jan-01

Field ID Multiplier

ltiplier 1

CAS#	Compound Name	R.T.	Response	Result		Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein	•		not	detected	50	1.85 ug/L	
107131	Acrylonitrile			not	detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not	detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not	detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not	detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not	detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not	detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not	detected	5	1.06 ug/L	
74-83-9	Bromomethane		i i		detected	10	1.10 ug/L	
75-00-3	Chloroethane	_	1		detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane				detected	nle	0.50 ug/L	<del>                                     </del>
75-35-4	1.1-Dichloroethene		1		detected	2	0.24 ug/L	
67-64-1	Acetone				detected	700	1.36 ug/L	<u> </u>
75-15-0	Carbon Disulfide	_			detected	nle	0.46 ug/L	†
75-09-2	Methylene Chloride	11.16	102745		ug/L	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene	11.10	1027.15		detected	100	0.16 ug/L	<del>                                     </del>
75-34-3	1.1-Dichloroethane		1.		detected	70	0.12 ug/L	<del>                                     </del>
108-05-4	Vinyl Acetate		<del>                                     </del>		detected	nle	0.78 ug/L	<u> </u>
78-93-3	2-Butanone		1		detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene		<del> </del>		detected	10	0.17 ug/L	<del> </del>
67-66-3	Chloroform		<del> </del>		detected	6	0.30 ug/L	<del>†                                      </del>
75-55-6	1,1,1-Trichloroethane		<del> </del>	<del></del>	detected	30	0.23 ug/L	<del>                                     </del>
56-23-5	Carbon Tetrachloride		<del> </del>		detected	2	0.23 ug/L 0.47 ug/L	<del> </del>
71-43-2	Benzene	<del></del>	1		detected	1	0.23 ug/L	<del>†</del>
107-06-2	1.2-Dichloroethane		1		detected	2	0.25 ug/L 0.18 ug/L	<del></del>
79-01-6	Trichloroethene		+		detected	1 1	0.13 ug/L 0.23 ug/L	<del>                                      </del>
78-87-5	1,2-Dichloropropane		<del> </del>		detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane		<del> </del>		detected	1 1	0.55 ug/L	<del> </del>
110-75-8	2-Chloroethyl vinyl ether		<del>                                     </del>		detected	nle	0.55 ug/L 0.65 ug/L	<del> </del>
10061-01-5	cis-1,3-Dichloropropene		+ +		detected	nle	0.69 ug/L	<del>                                     </del>
			<del>                                     </del>	<del></del>	detected	400	0.69 ug/L 0.59 ug/L	
108-10-1 108-88-3	4-Methyl-2-Pentanone Toluene	<del></del>	1		detected	1000	0.39 ug/L 0.37 ug/L	-
			<del>                                     </del>	<del></del>	detected	nle		
10061-02-6	trans-1,3-Dichloropropene		<del>} ·····</del>			3	0.87 ug/L	<del>                                     </del>
79-00-5	1,1,2-Trichloroethane		<del>}</del>	<del></del>	detected	1	0.48 ug/L	<del>                                     </del>
127-18-4	Tetrachloroethene	<del></del>	1		detected		0.32 ug/L	<del> </del>
591-78-6	2-Hexanone	<del></del>	<del>                                     </del>		detected	nle	0.71 ug/L	<del> </del> -
126-48-1	Dibromochloromethane	<del></del>	<del> </del>		detected	10	0.86 ug/L	
108-90-7	Chlorobenzene		<del>                                     </del>		detected	+	0.39 ug/L	<del> </del>
100-41-4	Ethylbenzene		<del> </del>		detected	700	0.65 ug/L	<del> </del>
1330-20-7	m+p-Xylenes	<del></del>	<del> </del>		detected	nle	1.14 ug/L	<del> </del>
1330-20-7	o-Xylene				detected	nle	0.62 ug/L	
100-42-5	Styrene		1		detected	100	0.56 ug/L	<del> </del>
75-25-2	Bromoform		<b>↓</b>		detected	4	0.70 ug/L	<del>                                     </del>
79-34-5	1,1,2,2-Tetrachloroethane		1		detected	2	0.47 ug/L	<del>_</del>
541-73-1	1,3-Dichlorobenzene		1		detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene	·_	1 1		detected	75	0.57_ug/L	
95-50-1	1,2-Dichlorobenzene		<u>1</u>	not	detected	600	0.64_ug/L	1

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:
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Lab Name:	FMETL		NJDEP	#: <u>13461</u>		r ieiu bia	
Project:	LTM	Case No.: 5	0-56 Loca	tion: CW2	_ SDC	i No.:	
Matrix: (soil/	water)	WATER		Lab Sample	e ID: <u>5</u> 1	144	
Sample wt/v	ol:	5.0 (g/ml) <u>I</u>	VIL	Lab File ID:	V	C004705.D	•
Level: (low/r	med)	LOW		Date Recei	ved: <u>1/</u>	11/01	
% Moisture:	not dec.			Date Analy:	zed: <u>1/</u>	12/01	
GC Column:	RTX5	02. ID: <u>0.25</u> (mn	<b>า</b> )	Dilution Fac	ctor: 1.	0	
Soil Extract \	Volume:	(uL)		Soil Aliquot	Volume	»:	(uL)
Number TIC	s found:	0	CONCENTF (ug/L or ug/k			_	
CAS NO.		COMPOUND NAM	Ē	RT	EST.	CONC.	Q

## Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification Number #13461

Data File Operator VC004706.D

Operator Skelton
Date Aquired 12-Jan-01

Sample Name Field ID 52 145

Multiplier

Dupe 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile	·		not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane	_		not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	1
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	1
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform ·			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	T.
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	T
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	Ī
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	1
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	1
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	1
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene	•	1	not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene	· <del></del>		not detected	75	0.57 ug/L	1
95-50-1	1,2-Dichlorobenzene			not detected	600	0.64 ug/L	1

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NT E = No Limit Established

NLE = No Limit Established

R.T. = Retention Time

### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

		TENTATI	VELY IDENTIFIE	D COMP	DUNDS		_	
Lab Name:	FMETL			NJDEP#	t: <u>13461</u>		Dup	е
Project:	LTM	Cas	e No.: 50-56	Locat	ion: CW2	SD	G No.:	
Matrix: (soil/\	water)	WATER		Ĺ	ab Sample	e ID:	52 145	
Sample wt/vo	ol:	5.0	(g/ml) ML	Ł	ab File ID:	_	VC004706.D	<u> </u>
Level: (low/r	ned)	LOW		. С	Date Recei	ved: _	1/11/01	
% Moisture:	not dec.				Date Analyz	zed: _	1/12/01	
GC Column:	RTX50	02. ID: <u>0.2</u>	5 (mm)	[	Dilution Fac	ctor:	1.0	
Soil Extract \	/olume:		_ (uL)	5	Soil Aliquot	Volun	ne:	(uL)
Number TICs	s found:	0		NCENTR /L or ug/K	ATION UN g) <u>UG</u>			
CAS NO.		COMPOU	ND NAME		RT	EST	Г. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification Number #13461

Data File Operator

Date Aquired

VC004707.D

Skelton 12-Jan-01 Sample Name Field ID 53 146 CW2MW30

Multiplier

er **1** 

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether		1	not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1.1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene	,	1	not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes		1	not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.62 ug/L	
100-42-5	Styrene		1	not detected	100	0.56 ug/L	
75-25-2	Bromoform			not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene		†	not detected	600	0.55 ug/L	
106-46-7	1,4-Dichlorobenzene		†	not detected	75	0.57 ug/L	j i
95-50-1	1,2-Dichlorobenzene		†	not detected	600	0.64 ug/L	<del>                                     </del>

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit
NJ E = No Limit Established

NLE = No Limit Established

R.T. = Retention Time

#### 1E

**COMPOUND NAME** 

CAS NO.

### **VOLATILE ORGANICS ANALYSIS DATA SHEET**

		TENTATI	/ELY IDI	ENTIFIE	O COMPOUN	NDS	CMONTAN	
Lab Name:	FMETL				NJDEP#:	13461	CW2MW03	,0
Project:	LTM	Cas	e No.: <u>5</u>	0-56	Location:	CW2 S	DG No.:	
Matrix: (soil/w	vater)	WATER			Lab	Sample ID:	53 146	
Sample wt/vo	ol:	5.0	(g/ml)	ML	Lab	File ID:	VC004707.D	_
Level: (low/m	ned)	LOW			Date	Received:	1/11/01	_
% Moisture: r	not dec.		<u> </u>		Date	Analyzed:	1/12/01	_
GC Column:	RTX50	2. ID: <u>0.2</u>	<u>5</u> (mr	n)	Dilut	ion Factor:	1.0	-
Soil Extract V	olume: _		_ (uL)		Soil	Aliquot Volu	me:	(uL)
				CON	ICENTRATIO	ON UNITS:		
Number TICs	found:	0	_	(ug/l	_ or ug/Kg)	UG/L		

FIELD ID:

EST. CONC.

Q

RT

#### **Volatile Analysis Report** U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification Number #13461**

Data File

VC004708.D

Operator Skelton 12-Jan-01 Date Aquired

Sample Name

54 147 CW2MW31

Multiplier

Field ID

CAS#	Compound Name	R.T	Response	Result		Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein	_		not	detected	50	1.85 ug/L	
107131	Acrylonitrile			not	detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not	detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not	detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not	detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not	detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not	detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not	detected	5	1.06 ug/L	
74-83-9	Bromomethane			not	detected	10	1.10 ug/L	
75-00-3	Chloroethane		1	not	detected	nle	1.01 ug/L	1
75-69-4	Trichlorofluoromethane		1	not	detected	nle	0.50 ug/L	
75-35-4	1.1-Dichloroethene			not	detected	2	0.24 ug/L	
67-64-1	Acetone				detected	700	1.36 ug/L	<u> </u>
75-15-0	Carbon Disulfide				detected	nle	0.46 ug/L	i
75-09-2	Methylene Chloride				detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene	<del></del>	1		detected	100	0.16 ug/L	1
75-34-3	1.1-Dichloroethane			not	detected	70	0.12 ug/L	1
108-05-4	Vinyl Acetate		†		detected	nle	0.78 ug/L	
78-93-3	2-Butanone		<del>                                     </del>		detected	300	0.62 ug/L	<u> </u>
156594	cis-1.2-Dichloroethene	-	T		detected	10	0.17 ug/L	<del> </del>
67-66-3	Chloroform		†		detected	6	0.30 ug/L	<del>                                     </del>
75-55-6	1,1,1-Trichloroethane		1		detected	30	0.23 ug/L	<del> </del>
56-23-5	Carbon Tetrachloride	<del></del>	† <u>-</u>		detected	2	0.47 ug/L	†
71-43-2	Benzene		<del>-    </del>		detected	1	0.23 ug/L	·
107-06-2	1,2-Dichloroethane				detected	2	0.18 ug/L	† · · · · ·
79-01-6	Trichloroethene		<del> </del>		detected	1 1	0.23 ug/L	<b></b>
78-87-5	1,2-Dichloropropane		<del>                                     </del>		detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane		<del>                                     </del>		detected	1	0.55 ug/L	<b></b>
110-75-8	2-Chloroethyl vinyl ether				detected	nle	0.65 ug/L	<del>                                     </del>
10061-01-5	cis-1,3-Dichloropropene			_	detected	nle	0.69 ug/L	<del> </del>
108-10-1	4-Methyl-2-Pentanone				detected	400	0.59 ug/L	
108-88-3	Toluene		<del> </del>		detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene				detected	nle	0.87 ug/L	1
79-00-5	1,1,2-Trichloroethane		† <u></u>		detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene				detected	1	0.32 ug/L	<u> </u>
591-78-6	2-Hexanone		1 1		detected	nle	0.71 ug/L	····
126-48-1	Dibromochloromethane			<del></del>	detected	10	0.86 ug/L	
108-90-7	Chlorobenzene		<del>                                     </del>		detected	4	0.39 ug/L	
100-41-4	Ethylbenzene		<del>  -</del>		detected	700	0.65 ug/L	<b> </b>
1330-20-7	m+p-Xylenes		<del>  -</del>		detected	nle	1.14 ug/L	1
1330-20-7	o-Xylene		1		detected	nle	0.62 ug/L	
100-42-5	Styrene		<del>                                     </del>		detected	100	0.56 ug/L ·	<del> </del>
75-25-2	Bromoform		<del>                                     </del>		detected	4	0.70 ug/L	1
79-34-5	1.1.2.2-Tetrachloroethane		+		detected	2	0.47 ug/L	<del> </del>
541-73-1	1.3-Dichlorobenzene		1 1-		detected	600	0.55 ug/L	†
106-46-7	1.4-Dichlorobenzene		<del></del>		detected	75	0.57 ug/L	
95-50-1	1,2-Dichlorobenzene		<del>  -</del>		detected	600	0.64 ug/L	<del> </del>
/3-3 <b>U</b> -1	11,2-Dichtoropenzene			not	uetectea	UUQ	U.04 Ug/L	1

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

#### **Qualifiers**

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

F	IEL	D	ID	:
				_

Lab Name:	FMETL		NJD	EP#: <u>13461</u>		7031
Project:	LTM	Case No.: 50	D-56 Lo	cation: CW2	SDG No.:	
Matrix: (soil/	water)	WATER		Lab Sample	e ID: <u>54 147</u>	
Sample wt/ve	ol:	5.0 (g/ml) <u>N</u>	/L	Lab File ID:	VC004708.D	) ———
Level: (low/r	ned)	LOW		Date Recei	ved: <u>1/11/01</u>	<del></del>
% Moisture:	not dec.			Date Analyz	zed: 1/12/01	
GC Column:	RTX50	02. ID: 0.25 (mm	n)	Dilution Fac	otor: 1.0	
Soil Extract \	/olume:	(uL)		Soil Aliquot	Volume:	(uL)
Number TICs	s found:	0	CONCEN (ug/L or u	TRATION UN g/Kg) UG	. –	
CAS NO.		COMPOUND NAME	<u>.</u>	RT	EST. CONC.	Q

# Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification Number #13461

Data File

VC004709.D

Operator
Date Aquired

Skelton 12-Jan-01 Sample Name Field ID 55 148 CW2MW32

Multiplier

1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane	-		not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	,
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene			not detected	10	0.17 ug/L	
67-66-3	Chloroform			not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	
71-43-2	Benzene			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane		1	not detected	2	0.18 ug/L	
79-01-6	Trichloroethene		1	not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	1
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene		l l	not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	T
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene		1	not detected	nle	0.62 ug/L	
100-42-5	Styrene		† †	not detected	100	0.56 ug/L	1
75-25-2	Bromoform		†	not detected	4	0.70 ug/L	j · · · · · ·
79-34-5	1,1,2,2-Tetrachloroethane		†	not detected	2	0.47 ug/L	<del> </del>
541-73-1	1,3-Dichlorobenzene		<del>                                     </del>	not detected	600	0.55 ug/L	ļ
106-46-7	1,4-Dichlorobenzene		† †	not detected	75	0.57 ug/L	1
95-50-1	1,2-Dichlorobenzene	·	<del>                                     </del>	not detected	600	0.64 ug/L	<del>                                     </del>
	1 x 3 2 IVINOI O U CAIGOALO		1	AIOL GOLOCICG	1 000	0.07 ug/L	

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit NLE = No Limit Established

R.T. = Retention Time

#### 1E

COMPOUND NAME

CAS NO.

### VOLATILE ORGANICS ANALYSIS DATA SHEET

FIELD ID:

		TENTA	TIVELY ID	ENTIFIE	D COMPO	UND	3			
_ab Name:	FMETL	·			NJDEP#:	134	61	_ [_	CW2MW03	2
Project:	LTM		Case No.: 5	0-56	Locatio	on: <u>C</u>	W2 S	SDG No	o.:	
Matrix: (soil/w	vater)	WATER			La	ab Sai	mple ID:	55 14	8	
Sample wt/vo	ol:	5.0	(g/ml)	ML	_ La	ab File	D:	VC00	4709.D	
_evel: (low/m	ned)	LOW	<u></u>		Da	ate Re	eceived:	1/11/0	01	
% Moisture: r	not dec.		<u> </u>		Da	ate Ar	nalyzed:	1/12/0	D1	
GC Column:	RTX50	02. ID:	0.25 (mr	n)	Di	ilution	Factor:	1.0		
Soil Extract V	olume:	<del></del> .	(uL)		Sc	oil Alic	quot Vol	ume: _		(uL)
				COI	NCENTRA	TION	UNITS:			
Number TICs	found:	0	<u>-</u>	(ug/	L or ug/Kg	)	UG/L			

RT

EST. CONC.

Q

#### Volatile Analysis Report U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification Number #13461**

Data File Operator

Date Aquired

VC004710.D

Skelton 12-Jan-01 Sample Name

56 149

Field ID

CW2MW33 Multiplier

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Qualifier
107028	Acrolein			not detected	50	1.85 ug/L	
107131	Acrylonitrile			not detected	50	2.78 ug/L	
75650	tert-Butyl alcohol			not detected	nle	8.52 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.16 ug/L	
108203	Di-isopropyl ether			not detected	nle	0.25 ug/L	
75718	Dichlorodifluoromethane			not detected	nle	1.68 ug/L	
74-87-3	Chloromethane			not detected	30	1.16 ug/L	
75-01-4	Vinyl Chloride			not detected	5	1.06 ug/L	
74-83-9	Bromomethane			not detected	10	1.10 ug/L	
75-00-3	Chloroethane			not detected	nle	1.01 ug/L	
75-69-4	Trichlorofluoromethane			not detected	nle	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	2	0.24 ug/L	
67-64-1	Acetone			not detected	700	1.36 ug/L	
75-15-0	Carbon Disulfide			not detected	nle	0.46 ug/L	
75-09-2	Methylene Chloride			not detected	2	0.24 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.16 ug/L	
75-34-3	1,1-Dichloroethane			not detected	70	0.12 ug/L	
108-05-4	Vinyl Acetate			not detected	nle	0.78 ug/L	
78-93-3	2-Butanone			not detected	300	0.62 ug/L	
156594	cis-1,2-Dichloroethene		Ť i	not detected	10	0.17 ug/L	
67-66-3	Chloroform		1	not detected	6	0.30 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.23 ug/L	
56-23-5	Carbon Tetrachloride			not detected	2	0.47 ug/L	1
71-43-2	Веплепе			not detected	1	0.23 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.18 ug/L	
79-01-6	Trichloroethene			not detected	1	0.23 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.40 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.55 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.65 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	nle	0.69 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	400	0.59 ug/L	
108-88-3	Toluene			not detected	1000	0.37 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	nle	0.87 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.48 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.32 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.71 ug/L	
126-48-1	Dibromochloromethane			not detected	10	0.86 ug/L	1
108-90-7	Chlorobenzene			not detected	4	0.39 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.65 ug/L	<u> </u>
1330-20-7	m+p-Xylenes	·		not detected	nle	1.14 ug/L	
1330-20-7	o-Xylene	· · · · · · · · · · · · · · · · · · ·		not detected	nle	0.62 ug/L	
100-42-5	Styrene			not detected	100	0.56 ug/L	Ì
75-25-2	Bromoform		1	not detected	4	0.70 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane	-		not detected	2	0.47 ug/L	
541-73-1	1,3-Dichlorobenzene		1 . 1	not detected	600	0.55 ug/L	1
	1,4-Dichlorobenzene		1	not detected	75	0.57 ug/L	<b>†</b>
106-46-7							

\*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C., 7:9-6 2-Sept 97

#### Qualifiers

B = Compound found in related blank

E = Value above linear range

D = Value from dilution

PQL = Practical Quantitation Limit

MDL = Method Detection Limit

NLE = No Limit Established

R.T. = Retention Time

## VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

П	IELU	IU.	
Г			_

Lab Name:	FMETL		NJDEP#: 13461	C 44 5 141 44 0 2 3
Project:	LTM	Case No.: 50-56	Location: CW2 SE	OG No.:
Matrix: (soil/	water)	WATER	Lab Sample ID:	56 149
Sample wt/ve	ol:	5.0 (g/ml) ML	Lab File ID:	VC004710.D
Level: (low/r	ned)	LOW	Date Received:	1/11/01
% Moisture:	not dec.		Date Analyzed:	1/12/01
GC Column:	RTX5	02. ID: <u>0.25</u> (mm)	Dilution Factor:	1.0
Soil Extract \	Volume:	(uL)	Soil Aliquot Volur	me: (uL)
Number TICs	s found:		CONCENTRATION UNITS: ug/L or ug/Kg) UG/L	
CAS NO.		COMPOUND NAME	RT ES	T. CONC. Q

#### Semi-Volatile Analysis Report

#### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name BNA04844.D

Sample Name

**MB-156** 

Operator

Bhaskar

Misc Info

MB-156

Date Acquired

16-Jan-01

Sample Multiplier

CAS#	Nome	R.T.	Dognongo	Powlt	Regulatory Level (ug/L)*	MOI		0
110-86-1	Name	T.K.I.	Response	Result		MDL 1.54	a	Qualifiers
62-75-9	Pyridine N nitrose dimethylamine	+	· ·	not detected	NLE 20		ug/L ug/L	<del> </del>
62-53-3	N-nitroso-dimethylamine Aniline	+		not detected	NLE		ug/L ug/L	
108-95-2	Phenol	1		not detected not detected	4000		ug/L	
111-44-4	bis(2-Chloroethyl)ether	+		not detected	10		ug/L	-
95-57-8	2-Chlorophenol	+		not detected	40		ug/L	
541-73-1	1,3-Dichlorobenzene	<del></del>		not detected	600		ug/L ug/L	
106-46-7	1,4-Dichlorobenzene	<b>-</b>		not detected	75		ug/L	. <u> </u>
100-40-7	Benzyl alcohol		·	not detected	NLE		ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600		ug/L	
95-48-7	2-Methylphenol			not detected	NLE		ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300		ug/L	
106-44-5	4-Methylphenol			not detected	NLE		ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20		ug/L	
67-72-1	Hexachloroethane			not detected	10		ug/L	
98-95-3	Nitrobenzene	<del>                                     </del>		not detected	10		ug/L	
78-59-1	Isophorone	$\top$		not detected	100		ug/L	
88-75-5	2-Nitrophenol			not detected	NLE		ug/L	
105-67-9				not detected	100		ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE		ug/L	·····
120-83-2	2,4-Dichlorophenol			not detected	20		ug/L	
65-85-0	Benzoic Acid		1	not detected	NLE		ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9		ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE		ug/L	
87-68-3	Hexachlorobutadiene			not detected	. 1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE_	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70	ug/L	
606-20-2	2,6-Dinitrotoluene	T		not detected	NLE	0.92	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93	ug/L	
83-32-9	Acenaphthene			not detected	400	0.62	ug/L:	
51-28-5	2,4-Dinitrophenol	T		not detected	40		ug/L	
132-64-9	Dibenzofuran			not detected	NLE		ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41	ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04844.D

Sample Name

MB-156

Operator

Bhaskar

Misc Info

MB-156

1

Date Acquired

16-Jan-01

Sample Multiplier

Regulatory Level

CAS#	Name	R.T.	Response	Result	Level (ug/L)*	MDL	Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	_ 1.41 ug	/L
84-66-2	Diethylphthalate	18.86	279212	9.18 ug/L	5000	1.54 ug	/L
86-73-7	Fluorene			not detected	300	0.98 ug	/L
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86 ug	/L
100-01-6	4-Nitroaniline			not detected	NLE	2.96 ug	/L
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10 ug	/L
86-30 <b>-</b> 6	n-Nitrosodiphenylamine			not detected	20	1.44 ug	/L
103-33-3	Azobenzene			not detected	NLE	1.00 ug	/L
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28 ug	/L
118-74-1	Hexachlorobenzene			not detected	10	1.08 ug	n.
87-86-5	Pentachlorophenol			not detected	1	1.74 ug	rL
85-01-8	Phenanthrene			not_detected	NLE	1.73 ug	/L
120-12-7	Anthracene			not detected	2000	1.85 ug	<u>r</u>
84-74-2	Di-n-butylphthalate			not detected	900	2.49 ug	/L
206-44-0	Fluoranthene			not detected	300	1.48 ug	/L
92-87-5	Benzidine			not detected	. 50	2.15 ug	<u>rL</u>
129-00-0	Pyrene	<u> </u>		not detected	200	1.53 ug	/L
85-68-7	Butylbenzylphthalate			not detected	100	1.24 ug	/L
56-55-3	Benzo[a]anthracene			not detected	10	2.68 ug	<u>r</u>
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60 ug	<u>rL</u>
218-01-9	Chrysene			not detected	20	1.14 ug	<u>rL</u>
117-81-7	bis(2-Ethylhexyl)phthalate	27.95	307979	9.31 ug/L	30	1.34 ug	/L
117-84-0	Di-n-octylphthalate			not detected	100	1.44 ug	<u>rL</u>
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32 ug	<u>r</u> L
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15 ug	ı
50-32-8	Benzo[a]pyrene			not detected	20	2.43 ug	rL
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24 ug	ı.
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94 ug	ı.
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04 ug	<u>r</u> .

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

#### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMP

POUNDS	
de <u>13461</u>	MB-156

Field Id:

Lab Name:	<b>FMETL</b>		Lab Code	13461		1VID-13	30
Project:	LTM	Case No.: 144-149	Locatio	n: CW2	SD	G No.:	
Matrix: (soil/	water)	WATER	La	ab Sample I	ID: <u>N</u>	/IB-156	
Sample wt/ve	ol:	1000 (g/ml) ML	_ La	ab File ID:	E	3NA04844.D	)
Level: (low/r	med)	LOW	Da	ate Receive	ed: <u>1</u>	/11/01	<del></del>
% Moisture:		decanted: (Y/N)	N Da	ate Extracte	ed: 1	/12/01	
Concentrate	d Extract	Volume: 1000 (uL)	Da	ate Analyze	ed: <u>1</u>	/16/01	
Injection Vol	ume: 1.	0 (uL)	Di	lution Facto	or: <u>1</u>	.0	
GPC Cleanu	p: (Y/N)	NpH:					
Number TICs	s found:	1	CONCENT	TRATION L	JNITS JG/L	S: 	
CAS NUME	BER	COMPOUND NAME		RT	EST	CONC.	Q
1.		unknown		7.11		16	J

#### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

#### **NJDEP Certification #13461**

Data File Name

BNA04846.D

Sample Name

144

1

Operator

Bhaskar

Misc Info

Field Blank

Date Acquired

100-02-7

4-Nitrophenol

16-Jan-01

Sample Multiplier

Regulatory Level (ug/L)\* CAS# R.T. Response Result MDL Name Qualifiers 110-86-1 NLE Pyridine not detected 1.54 ug/L 62-75-9 N-nitroso-dimethylamine 0.69 ug/L not detected 20 NLE 62-53-3 Aniline not detected 1.85 ug/L 4000 108-95-2 Phenol not detected 0.52 ug/L 111-44-4 bis(2-Chloroethyl)ether not detected 10 0.63 ug/L 95-57-8 2-Chlorophenol not detected 40 0.61 ug/L 600 0.62 ug/L 541-73-1 1,3-Dichlorobenzene not detected 75 106-46-7 1,4-Dichlorobenzene not detected 0.58 ug/L 100-51-6 NLE 0.62 ug/L Benzyl alcohol not detected 95-50-1 1,2-Dichlorobenzene 600 not detected 0.65 ug/L 0.59 ug/L 95-48-7 2-Methylphenol not detected NLE bis(2-chloroisopropyl)ether 39638-32-9 not detected 300 0.57 ug/L NLE 106-44-5 4-Methylphenol not detected 0.48 ug/L 621-64-7 n-Nitroso-di-n-propylamine 20 0.64 ug/L not detected 67-72-1 Hexachloroethane 10 not detected 0.34 ug/L 10 98-95-3 Nitrobenzene not detected 0.51 ug/L 78-59-1 not detected 100 0.45 ug/L Isophorone 88-75-5 NLE 2-Nitrophenol 0.52 ug/L not detected 105-67-9 2,4-Dimethylphenol not detected 100 0.93 ug/L 0.48 ug/L 111-91-1 bis(2-Chloroethoxy)methane not detected NLE 120-83-2 20 0.39 ug/L 2,4-Dichlorophenol not detected 65-85-0 Benzoic Acid not detected NLE 1.15 ug/L 9 120-82-1 1,2,4-Trichlorobenzene 0.54 ug/L not detected NLE 91-20-3 Naphthalene not detected 0.72 ug/L 106-47-8 4-Chloroaniline not detected NLE 1.78 ug/L Hexachlorobutadiene 87-68-3 not detected 1 0.43 ug/L 59-50-7 4-Chloro-3-methylphenol not detected NLE 0.71 ug/L NLE 91-57-6 2-Methylnaphthalene not detected 0.55 ug/L 77-47-4 50 0.76 ug/L Hexachlorocyclopentadiene not detected 88-06-2 2,4,6-Trichlorophenol 20 0.59 ug/L not detected 95-95-4 2,4,5-Trichlorophenol not detected 700 0.96 ug/L 91-58-7 2-Chloronaphthalene not detected NLE 0.53 ug/L NLE 88-74-4 2-Nitroaniline not detected 1.04 ug/L 131-11-3 Dimethylphthalate not detected 7000 1.04 ug/L 208-96-8 NLE 0.70 ug/L Acenaphthylene not detected 606-20-2 2,6-Dinitrotoluene NLE not detected 0.92 ug/L 99-09-2 3-Nitroaniline NLE 1.93 ug/L not detected 83-32-9 400 Acenaphthene not detected 0.62 ug/L 51-28-5 2,4-Dinitrophenol not detected 40 1.84 ug/L 132-64-9 NLE Dibenzofuran not detected 0.73 ug/L

1.41 ug/L

NLE

not detected

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04846.D

Sample Name

144

1

Operator

Bhaskar

Misc Info

Field Blank

Date Acquired

16-Jan-01

Sample Multiplier

Regulatory Level

CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate	18.86	146305	4.90 ug/L	5000	1.54	ug/L	В
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine .			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene	<u> </u>		not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene		·	not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene	1		not detected	NLE	2.04	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

ŀ	Field Id:	
	Field Blank	

17

Lab Name:	FMETL			Lab Co	de <u>13461</u>		Field B	lank ———
Project:	LTM	Case	e No.: 144-1	49 Loca	tion: CW2	s	DG No.:	<u></u>
Matrix: (soil/	water)	WATER_			Lab Sampl	e ID:	144	
Sample wt/ve	ol:	1000	(g/ml) ML		Lab File ID	:	BNA04846.E	)
Level: (low/r	ned)	LOW			Date Rece	ived:	1/11/01	
% Moisture:		decar	nted: (Y/N)	N	Date Extra	cted:	1/12/01	
Concentrate	d Extract	Volume: 10	000 (uL)		Date Analy	zed:	1/16/01	
Injection Vol	ume: <u>1.</u> 0	0 (uL)			Dilution Fa	ctor:	1.0	
GPC Cleanu	p: (Y/N)	<u>N</u> p	H:					
				CONCE	NTRATION	I UNI	TS:	
Number TICs	s found:	1	<u> </u>	(ug/L or	ug/Kg)	UG/	L	·
CAS NUME	BER	COMPOUN	ND NAME		RT	ES	ST. CONC.	Q

unknown

#### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

**NJDEP Certification #13461** 

Data File Name

BNA04847.D

Sample Name

145

Operator

Bhaskar

Misc Info

Dupe 1

Date Acquired

16-Jan-01

Sample Multiplier

CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54 ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69 ug/L	
62-53-3	Aniline			not detected	NLE	1.85 ug/L	
108-95-2	Phenol			not detected	4000	0.52 ug/L	
111-44-4	bis(2-Chloroethyl)ether		Ü	not detected	10	0.63 ug/L	ì
95-57-8	2-Chlorophenol			not detected	40	0.61 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58 ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65 ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59 ug/L	
39638-32-9	bis(2-chloroisopropyl)ether	·		not detected	300	0.57 ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48 ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64 ug/L	·
67-72-1	Hexachloroethane			not detected	10	0.34 ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51 ug/L	
78-59-1	Isophorone			not detected	100	0.45 ug/L	<u> </u>
88-75-5	2-Nitrophenol			not detected	NLE	0.52 ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93 ug/L	ł
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48 ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39 ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15 ug/L	
120-82-1	1,2,4-Trichlorobenzene		:	not detected	9	0.54 ug/L	<u> </u>
91-20-3	Naphthalene			not detected	NLE	0.72 ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78 ug/L	<u> </u>
87-68-3	Hexachlorobutadiene			not detected	1	0.43 ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71 ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55 ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76 ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	_20	0.59 ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96 ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53 ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04 ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04 ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70 ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92 ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.93 ug/L	
83-32-9	Acenaphthene			not detected	400	0.62 ug/L	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84 ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.73 ug/L	
100-02-7	4-Nitrophenol			not detected	NLE	1.41 ug/L	

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04847.D

Sample Name

145

Operator

Bhaskar

Misc Info

Dupe

Date Acquired

16-Jan-01

Sample Multiplier 1

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	Oualifiers
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41 u	2/L
84-66-2	Diethylphthalate	18.86	100858	3.57 ug/L	5000	1.54 u	z/L B
86-73-7	Fluorene			not detected	300	0.98 ա	2/L
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86 ս	z/L
100-01-6	4-Nitroaniline			not detected	NLE	2.96 u	z/L
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10 u	2/L
86-30-6	n-Nitrosodiphenylamine		·	not detected	20	1.44 u	z/L
103-33-3	Azobenzene			not detected	NLE	1.00 u	z/L
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28 u	2/L
118-74-1	Hexachlorobenzene			not detected	10	1.08 u	<sub>2</sub> /L
87-86-5	Pentachlorophenol			not detected	1	1.74 սյ	2/L
85-01-8	Phenanthrene			not detected	NLE	1.73 ug	z/L
120-12-7	Anthracene	1		not detected	2000	1.85 us	z/L
84-74-2	Di-n-butylphthalate			not detected	900	2.49 u	z/L
206-44-0	Fluoranthene			not detected	300	1.48 u	2/L
92-87-5	Benzidine			not detected	50	2.15 այ	z/L
129-00-0	Pyrene			not detected	200	1.53 ug	z/L
85-68-7	Butylbenzylphtbalate			not detected	100	1.24 u	z/L
56-55-3	Benzo[a]anthracene			not detected	10	2.68 u	z/L
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60 us	z/L
218-01-9	Chrysene			not detected	20	1.14 us	z/L
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34 ug	γ/L
117-84-0	Di-n-octylphthalate			not detected	100	1.44 u	z/L
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32 ug	z/L
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15 us	2/L
50-32-8	Benzo[a]pyrene			not detected	20	2.43 u	ı/L
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24 us	ı/L
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94 us	<sub>2</sub> /L
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04 ug	z/L

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established R.T.=Retention Time

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field I	d:
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				00				
Lab Name:	FMETL		L	.ab Code	13461		Dup	oe
Project:	LTM	Case No.	: 144-149	Location	n: <u>CW2</u>	_ si	DG No.:	
Matrix: (soil/v	water)	WATER		Lat	Sample	D:	145	
Sample wt/vo	ol:	1000 (g/m	l) <u>ML</u>	Lat	File ID:		BNA04847.I	<u>D</u>
Level: (low/r	ned)	LOW		Da	te Recei	ved:	1/11/01	
% Moisture:		decanted:	(Y/N) <u>N</u>	Da	te Extrac	ted:	1/12/01	
Concentrated	d Extract	Volume: 1000	_ (uL)	Da	te Analyz	zed:	1/16/01	
Injection Volu	ume: 1.	0 (uL)		Dili	ution Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	NpH:						
Number TICs	s found:	1		ONCENT		UNIT		
CAS NUME	BER	COMPOUND NA	AME		RT	ES	T. CONC.	Q
1 4		I			744	I	4.0	

#### Semi-Volatile Analysis Report

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification #13461

Data File Name

BNA04848.D

Sample Name

146

Operator

Bhaskar

Misc Info

CW2MW30

Date Acquired

16-Jan-01

Sample Multiplier

					Regulatory Level			
CAS#	Name	R.T.	Response	<u>Res</u> ult	(ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether		\	not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.57	ug/L	
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			_not_detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol	i		not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04	ug/L	
131-11-3	Dimethylphthalate			not detected	7000	1.04	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.70		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92		
99-09-2	3-Nitroaniline			not detected	NLE	1.93		
83-32-9	Acenaphthene			not detected	400	0.62		
51-28-5	2,4-Dinitrophenol	1		not detected	40	1.84		
132-64-9	Dibenzofuran	1		not detected	NLE	0.73		
100-02-7	4-Nitrophenol	+		not detected	NLE	1.41		

#### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

BNA04848.D

Sample Name

146

1

Operator

Bhaskar 16-Jan-01 Misc Info

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CW2MW30

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Oualifiers
121-14-2	2.4-Dinitrotoluene	T.1.	Kesponse	not detected	10		ug/L	Quamiers
	Diethylphthalate	18.86	78692	2.84 ug/L	5000		ug/L	В
84-66-2		10.00	78092		300	0.98		
86-73-7	Fluorene	+		not detected	NLE			
7005-72-3	4-Chlorophenyl-phenylether	+	·	not detected		0.86		
100-01-6	4-Nitroaniline	+		not detected	NLE		ug/L	<b></b>
534-52-1	4,6-Dinitro-2-methylphenol	╂		not detected	NLE		ug/L	<del>                                     </del>
86-30-6	n-Nitrosodiphenylamine	++		not detected	20		ug/L	<del> </del>
103-33-3	Azobenzene	+		not detected	NLE	1.00		
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol	[		not detected	11	1.74	ug/L	<u> </u>
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44		
205-99-2	Benzo[b]fluoranthene	<b>T</b>		not detected	10		ug/L	
207-08-9	Benzo[k]fluoranthene	1		not detected	2	1.15		
50-32-8	Benzo[a]pyrene			not detected	20		ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	1		not detected	20		ug/L	
53-70-3	Dibenz[a,h]anthracene	11		not detected	20	1.94		
191-24-2	Benzo[g,h,i]perylene	<del> </del>		not detected	NLE	2.04		<u> </u>
171-24-2	Denzolg,n,nperyiene			HOL GERECIEG	TATE	2.04	nK/T	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

	014/010						
Lab Name:	FMETL	·	_ Lab Cod	de <u>13461</u>		CW2M\	N30
Project:	LTM	Case No.: 144-149	Locat	tion: CW2	SD	G No.:	
Matrix: (soil/	water)	WATER	1	Lab Sample	ID: <u>1</u>	46	
Sample wt/v	ol:	1000 (g/ml) ML	1	Lab File ID:	E	3NA04848.D	<u> </u>
Level: (low/r	ned)	LOW	!	Date Receive	ed: <u>1</u>	/11/01	
% Moisture:	<del></del>	decanted: (Y/N)	<u>N</u> 1	Date Extract	ed: 1	/12/01	
Concentrate	d Extract	Volume: 1000 (uL)	ı	Date Analyz	ed: <u>1</u>	/16/01	
Injection Vol	ume: <u>1</u>	.0 (uL)	1	Dilution Fact	or: <u>1</u>	.0	
GPC Cleanu	p: (Y/N)	N pH:					
Novele ou TIO	- £	4		NTRATION (		<b>S</b> :	
Number TIC:	s tound:		(ug/L or	ug/kg)	JG/L		
CAS NUME	BER	COMPOUND NAME		RT	EST	. CONC.	Q
1.		unknown		7.11		18	J

#### Semi-Volatile Analysis Report

### U.S. Army, Fort Monmouth Environmental Laboratory

**NJDEP Certification #13461** 

Data File Name BNA04849.D

Sample Name

147

Operator

Bhaskar

Misc Info

CW2MW31

Date Acquired 16-Jan-01 Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	ŕ	Dualifiers
110-86-1	Pyridine	T	Response	not detected	NLE	1.54 u		Juanners
62-75-9	N-nitroso-dimethylamine	+		not detected	20	0.69 u		
62-53-3	Aniline			not detected	NLE	1.85 u		
108-95-2	Phenol			not detected	4000	0.52 u		
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63 u		
95-57-8	2-Chlorophenol	$\vdash$		not detected	40	0.61 u		····
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62 u		
106-46-7	1.4-Dichlorobenzene			not detected	75	0.58 u		
100-51-6	Benzyl alcohol			not detected	NLE	0.62 u		<u>.</u>
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65 u		
95-48-7	2-Methylphenol			not detected	NLE	0.59 u		
39638-32-9	bis(2-chloroisopropyl)ether		· · · · · · · · · · · · · · · · · · ·	not detected	300	0.57 u		•
106-44-5	4-Methylphenol			not detected	NLE	0.48 u		
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64 u		
67-72-1	Hexachloroethane	1	·	not detected	10	0.34 u		
98-95-3	Nitrobenzene	1	· · · · · · · · · · · · · · · · · · ·	not detected	10	0.51 u	<del></del>	
78-59-1	Isophorone			not detected	100	0.45 u		
88-75-5	2-Nitrophenol			not detected	NLE	0.52 u	$\overline{}$	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93 u		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48 u		
120-83-2	2,4-Dichlorophenol			not detected	20	0.39 u		
65-85-0	Benzoic Acid			not detected	NLE	1.15 u		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.54 u		
91-20-3	Naphthalene			not detected	NLE	0.72 u	~ -	
106-47-8	4-Chloroaniline			not detected	NLE	1.78 u		
87-68-3	Hexachlorobutadiene			not detected	1	0.43 u		
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71 u		
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55 u		-
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76 u		
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59 u		
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96 น		
91-58-7	2-Chloronaphthalene	T - T		not detected	NLE	0.53 u	1g/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04 u		
131-11-3	Dimethylphthalate			not detected	7000	1.04 u	1	
208-96-8	Acenaphthylene			not detected	NLE	0.70 u		
606-20-2	2,6-Dinitrotoluene		-	not detected	NLE	0.92 u		
99-09-2	3-Nitroaniline			not detected	NLE	1.93 u		
83-32-9	Acenaphthene			not detected	400	0.62 u	1	
51-28-5	2,4-Dinitrophenol			not detected	40	1.84 u		
132-64-9	Dibenzofuran			not detected	NLE	0.73 u		
100-02-7	4-Nitrophenol			not detected	NLE	1.41 u		

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04849.D

Sample Name

147

1

Operator Date Acquired Bhaskar 16-Jan-01 Misc Info

CW2MW31

Sample Multiplier

Regulatory

CAS#	Name R.T. Response Result		Level (ug/L)*	MDL		Qualifiers		
121-14-2	2,4-Dinitrotoluene			not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate	18.86	67081	2.37 ug/L	5000	1.54	ug/L	В
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether	1		not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene		·	not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not_detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	<u> </u>
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene	$\perp$		not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene	$\perp$		not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field Id:
-----------

Lab Name:	FMETL			Lab Cod	de 13461		CW2M\	N31
Project:	LTM	Case	No.: 144-149	_ Locat	ion: CW2	SDO	3 No.:	
Matrix: (soil/	water)	WATER		l	_ab Sample I	D: 1	47	
Sample wt/ve	ol:	1000 (	g/ml) ML	1	_ab File ID:	В	NA04849.D	) ——
Level: (low/r	ned)	LOW		[	Date Receive	d: <u>1</u>	/11/01	
% Moisture:		decan	ted: (Y/N)	N I	Date Extracte	d: 1.	/12/01	
Concentrate	d Extract	Volume: 100	00 (uL)	I	Date Analyze	d: <u>1</u>	/16/01	
Injection Volu	ume: <u>1.</u>	0 (uL)		i	Dilution Facto	or: <u>1</u>	.0	
GPC Cleanu	p: (Y/N)	N pF	ł:					
				CONCE	NTRATION L	INITS	<b>3</b> :	
Number TICs	s found:	1		(ug/L or	ug/Kg) L	IG/L		
CAS NUME	BER	COMPOUN	D NAME		RT	EST.	. CONC.	Q
1	_	unknown			7 10		18	

#### Semi-Volatile Analysis Report

#### U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification #13461**

Data File Name

BNA04850.D

Sample Name

148

Operator

Bhaskar

Misc Info

CW2MW32

Date Acquired 16-Jan-01 Sample Multiplier

					Regulatory Level			
CAS#	Name	R.T.	Response	Result	(ug/L)*	MDL		Qualifiers
110-86-1	Pyridine			not detected	NLE	1.54	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.69	ug/L	
62-53-3	Aniline			not detected	NLE	1.85	ug/L	
108-95-2	Phenol			not detected	4000	0.52	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.63	ug/L	
95-57-8	2-Chlorophenol			not detected	40	0.61	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.62	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.58	ug/L	
100-51-6	Benzyl alcohol			not detected	NLE	0.62	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.65	ug/L	
95-48-7	2-Methylphenol			not detected	NLE	0.59	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether	}		not detected	300	0.57	ug/L	<u> </u>
106-44-5	4-Methylphenol			not detected	NLE	0.48	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.64	ug/L	
67-72-1	Hexachloroethane			not detected	10	0.34	ug/L	
98-95-3	Nitrobenzene			not detected	10	0.51	ug/L	
78-59-1	Isophorone			not detected	100	0.45	ug/L	
88-75-5	2-Nitrophenol			not detected	NLE	0.52	ug/L	
105-67-9	2,4-Dimethylphenol			not detected	100	0.93	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.48	ug/L	
120-83-2	2,4-Dichlorophenol			not detected	20	0.39	ug/L	
65-85-0	Benzoic Acid			not detected	NLE	1.15	ug/L	
120-82-1	1,2,4-Trichlorobenzene		_	not detected	9	0.54	ug/L	
91-20-3	Naphthalene			not detected	NLE	0.72	ug/L	
106-47-8	4-Chloroaniline			not detected	NLE	1.78	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.43	ug/L	
59-50-7	4-Chloro-3-methylphenol			not detected	NLE	0.71	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.55	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.76	ug/L	
88-06-2	2,4,6-Trichlorophenol			not detected	20	0.59	ug/L	
95-95-4	2,4,5-Trichlorophenol			not detected	700	0.96	ug/L	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.53	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	1.04		
131-11-3	Dimethylphthalate			not detected	7000	1.04		
208-96-8	Acenaphthylene	1 1		not detected	NLE	0.70		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.92		
99-09-2	3-Nitroaniline	1 1		not detected	NLE	1.93		
83-32-9	Acenaphthene			not detected	400	0.62		
51-28-5	2,4-Dinitrophenol			not detected	40	1.84		
132-64-9	Dibenzofuran	1. 1		not detected	NLE	0.73		
100-02-7	4-Nitrophenol	1 1		not detected	NLE	1.41		

#### Semi-Volatile Analysis Report Page 2

Data File Name

BNA04850.D

Sample Name

148

1

Operator

Bhaskar

Misc Info

CW2MW32

Date Acquired 16

16-Jan-01

Sample Multiplier

Regulatory

					Level (ug/L)*			
CAS#	Name	R.T.	Response	Result	(ug/L)	MDL		Qualifiers
121-14-2	2,4-Dinitrotoluene	-		not detected	10	1.41	ug/L	
84-66-2	Diethylphthalate	18.86	58452	2.05 ug/L	5000	1.54	ug/L	<u>B</u>
86-73-7	Fluorene			not detected	300	0.98	ug/L	
7005-72-3	4-Chlorophenyl-phenylether	4		not detected	NLE	0.86	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine	+		not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene		· <del>··· ·</del>	not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate			not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene	لــــــــــــــــــــــــــــــــــــــ		not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene			not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

<sup>\*</sup> Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97.

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

### SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Field Id:

	014/015	Moo					
Lab Name:	FMETL		Lab Cod	de <u>13461</u>		CW2M\	2 
Project:	LTM	Case No.: 144-149	Locat	tion: CW2	_ SE	OG No.:	
Matrix: (soil/w	vater)	WATER	I	_ab Sample	ID:	148	
Sample wt/vo	ol:	1000 (g/ml) ML	I	_ab File ID:	_	BNA04850.D	)
Level: (low/n	ned)	LOW	ı	Date Receiv	/ed:	1/11/01	
% Moisture:		decanted: (Y/N)	N I	Date Extrac	ted:	1/12/01	
Concentrated	Extract	Volume: <u>1000</u> (uL)	ı	Date Analyz	ed:	1/16/01	
Injection Volu	ıme: <u>1.0</u>	) (uL)	ì	Dilution Fac	tor:	1.0	
GPC Cleanu	p: (Y/N)	NpH:					
Number TICs	found	1		NTRATION			
Number HCs	s iouria:		(ug/L or	ug/Kg)	UG/L	<u> </u>	
CAS NUMB	BER	COMPOUND NAME		RT	ES	T. CONC.	Q
1 4	4				ı	4.0	

#### Semi-Volatile Analysis Report

## U.S. Army, Fort Monmouth Environmental Laboratory N.IDEP Certification #13461

Data File Name

BNA04851.D

Sample Name

149

Operator

100-02-7

4-Nitrophenol

Bhaskar

Misc Info

CW2MW33

Date Acquired

16-Jan-01

Sample Multiplier

Regulatory Level (ug/L)\* CAS# R.T. MDL Name Result Response Qualifiers 110-86-1 Pyridine not detected NI.E 1.54 ug/L ug/L 62-75-9 N-nitroso-dimethylamine not detected 20 0.69 62-53-3 Aniline not detected NLE 1.85 ug/L 108-95-2 Phenol 4000 0.52 ug/L not detected 111-44-4 bis(2-Chloroethyl)ether not detected 10 0.63 ug/L 95-57-8 2-Chlorophenol 40 ug/L not detected 0.61 541-73-1 1,3-Dichlorobenzene not detected 600 0.62 ug/L 106-46-7 1,4-Dichlorobenzene not detected 75 0.58 ug/L 100-51-6 Benzyl alcohol NLE 0.62 not detected ug/L 95-50-1 1,2-Dichlorobenzene 600 not detected 0.65 ug/L 95-48-7 2-Methylphenol not detected NLE 0.59 ug/L 39638-32-9 bis(2-chloroisopropyl)ether 300 0.57 ug/L not detected ug/L NLE 106-44-5 4-Methylphenol not detected 0.48 621-64-7 n-Nitroso-di-n-propylamine not detected 20 0.64 ug/L 67-72-1 Hexachloroethane not detected 10 0.34 ug/L 98-95-3 Nitrobenzene not detected 10 0.51 ug/L 78-59-1 Isophorone 100 0.45 ug/L not detected NLE 0.52 ug/L 88-75-5 2-Nitrophenol not detected 105-67-9 2,4-Dimethylphenol 100 0.93 ug/L not detected 111-91-1 bis(2-Chloroethoxy)methane not detected NLE 0.48 ug/L 0.39 ug/L 2.4-Dichlorophenol 120-83-2 not detected 20 Benzoic Acid 65-85-0 not detected NLE 1.15 ug/L <u>120-82-</u>1 1,2,4-Trichlorobenzene 9 0.54 ug/L not detected NLE 91-20-3 Naphthalene not detected 0.72 ug/L 106-47-8 4-Chloroaniline not detected NLE 1.78 ug/L 87-68-3 Hexachlorobutadiene not detected 1 0.43 ug/L 59-50-7 NLE ug/L 4-Chloro-3-methylphenol not detected 0.71 NLE ug/L 91-57-6 2-Methylnaphthalene not detected 0.55 77-47-4 **Hexachlorocyclopentadiene** 50 0.76 ug/L not detected 2,4,6-Trichlorophenol 88-06-2 not detected 20 0.59 ug/L 95-95-4 2,4,5-Trichlorophenol not detected 700 0.96 ug/L 91-58-7 2-Chloronaphthalene not detected NLE 0.53 ug/L 2-Nitroaniline NLE 1.04 ug/L 88-74-4 not detected 131-11-3 Dimethylphthalate 7000 1.04 ug/L not detected 208-96-8 Acenaphthylene not detected NLE 0.70 ug/L 606-20-2 2,6-Dinitrotoluene NLE 0.92 ug/L not detected 99-09-2 3-Nitroaniline not detected NLE 1.93 ug/L 83-32-9 Acenaphthene 400 0.62 ug/L not detected 51-28-5 2,4-Dinitrophenol not detected 40 1.84 ug/L 132-64-9 Dibenzofuran **NLE** 0.73 ug/L not detected

1.41 ug/L

NLE

not detected

#### Semi-Volatile Analysis Report Page 2

Data File Name

Date Acquired

Operator

BNA04851.D

Bhaskar

16-Jan-01

Sample Name

149

Misc Info

CW2MW33

Sample Multiplier

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL		Qualifiers
121-14-2	2.4-Dinitrotoluene		1440,001.00	not detected	10		ug/L	Quantiers
84-66-2	Diethylphthalate	18.86	50504	1.71 ug/L	5000		ug/L	В
86-73-7	Fluorene			not detected	300		ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE		ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	2.96	ug/L	
534-52-1	4,6-Dinitro-2-methylphenol			not detected	NLE	2.10	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.44	ug/L	
103-33-3	Azobenzene			not detected	NLE	1.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.28	ug/L	
118-74-1	Hexachlorobenzene			not detected	10	1.08	ug/L	
87-86-5	Pentachlorophenol			not detected	1	1.74	ug/L	
85-01-8	Phenanthrene			not detected	NLE	1.73	ug/L	
120-12-7	Anthracene			not detected	2000	1.85	ug/L	
84-74-2	Di-n-butylphthalate	. <u> </u>		not detected	900	2.49	ug/L	
206-44-0	Fluoranthene			not detected	300	1.48	ug/L	
92-87-5	Benzidine			not detected	50	2.15	ug/L	
129-00-0	Pyrene			not detected	200	1.53	ug/L	
85-68-7	Butylbenzylphthalate			not detected	100	1.24	ug/L	
56-55-3	Benzo[a]anthracene			not detected	10	2.68	ug/L	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.60	ug/L	
218-01-9	Chrysene			not_detected	20	1.14	ug/L	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.34	ug/L	
117-84-0	Di-n-octylphthalate			not detected	100	1.44	ug/L	
205-99-2	Benzo[b]fluoranthene			not detected	10	1.32	ug/L	
207-08-9	Benzo[k]fluoranthene			not detected	2	1.15	ug/L	
50-32-8	Benzo[a]pyrene	$\perp$		not detected	20	2.43	ug/L	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	2.24	ug/L	
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.94	ug/L	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	2.04	ug/L	

\* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

#### **Qualifiers**

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

PQL= Practical Quantitation Limit

MDL= Method Detection Limit NLE= No Limit Established

R.T.=Retention Time

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Field	ld:	

Lab Name:	FMETL.				ab Code	13461		CWZIVI	W 33
Project:	LTM	(	Case No.: <u>14</u>	14-149	Location	n: CW2	_ s	DG No.:	
Matrix: (soil/	water)	WATER	<del></del>		La	ab Sample	e ID:	149	
Sample wt/v	ol:	1000	(g/ml) <u>N</u>	1L	La	ab File ID:		BNA04851.	)
Level: (low/r	med)	LOW	<del></del> _		Da	ate Recei	ved:	1/11/01	<del></del>
% Moisture:		de	ecanted: (Y/N	۷) <u>N</u>	Da	ate Extrac	ted:	1/12/01	
Concentrate	d Extract	Volume:	<u>1000</u> (u	L)	Da	ate Analy:	zed:	1/16/01	
Injection Vol	ume: <u>1.</u> 0	0 (uL)			Di	lution Fac	ctor:	1.0	
GPC Cleanu	p: (Y/N)	N	pH:						
				C	ONCEN	TRATION	UNI	TS:	
Number TICs	s found:	1		(ι	ıg/L or u	g/Kg)	UG/	<u>L</u>	
CAS NUME	BER	СОМРО	DUND NAME	Ē		RT	ES	ST. CONC.	Q
4		unknowe				7 10	1	01	

Client:

U.S. Army

Lab. ID #:

MB-154

DPW, SELFM-PW-EV

Date Rec'd:

Bldg. 173

**Extraction Date:** 

1/12/01

Ft. Monmouth, NJ 07703

**Analysis Date:** 

1/22/01

Analysis:

EPA Method 608

Location:

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	· 1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

144

DPW, SELFM-PW-EV

Date Rec'd:

1/11/01

Bldg. 173

**Extraction Date:** 

1/12/01

Ft. Monmouth, NJ 07703

**Analysis Date:** 

1/22/01

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

Field Blank

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1	,	0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

145

DPW, SELFM-PW-EV

Date Rec'd:

1/11/01

Bldg. 173

**Extraction Date:** 

1/12/01

Ft. Monmouth, NJ 07703

**Analysis Date:** 

1/22/01

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

occurrent .

Analyst:

Aqueous

T. Frankovich

Field ID:

Dupe

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. Fun	101		<del></del>		
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1	ı	2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1	-	0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

146

DPW, SELFM-PW-EV

Date Rec'd:

1/11/01

Bldg. 173

Extraction Date:

1/12/01

Ft. Monmouth, NJ 07703

Analysis Date:

1/22/01

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Field ID:

CW2MW30

Analyst:

T. Frankovich

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID #:

147

DPW, SELFM-PW-EV

Date Rec'd:

1/11/01

Bldg. 173

**Extraction Date:** 

1/12/01

Ft. Monmouth, NJ 07703

**Analysis Date:** 

1/22/01

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

CW2MW31

Ext. Meth:

Sep. Funnel

Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1	•	0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	. 1	•	0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID#:

148

DPW, SELFM-PW-EV

Date Rec'd:

1/11/01

Bldg. 173

**Extraction Date:** 

1/12/01

Ft. Monmouth, NJ 07703

**Analysis Date:** 

1/22/01

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

CW2MW32

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep. Fu	illiei				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1		0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683 <sup>\</sup>	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

Client:

U.S. Army

Lab. ID # :

149

DPW, SELFM-PW-EV

Date Rec'd:

1/11/01

Bldg. 173

**Extraction Date:** 

1/12/01

Ft. Monmouth, NJ 07703

**Analysis Date:** 

1/22/01

Analysis:

EPA Method 608

Location:

CW2 wells

Matrix:

Aqueous

Analyst:

T. Frankovich

Field ID:

CW2MW33

Ext. Meth:

Sep. Funnel

Ext. Meth: Sep.	Funnel				
Pesticide/PCB	Dilution Factor	Retention Time	Regulatory Level * (ug/L)	MDL (ug/L)	Result (ug/L)
alpha-BHC	1		0.02	0.0011	ND
beta-BHC	1		0.20	0.0050	ND
gamma-BHC	1 .	•	0.20	0.0013	ND
delta-BHC	1		NLE	0.0016	ND
Heptachlor	1		0.40	0.0035	ND
Aldrin	1		0.04	0.0026	ND
Heptachlor Epoxide	1		0.20	0.0020	ND
Endosulfan I	1		0.40	0.0016	ND
4,4'-DDE	1		0.10	0.0021	ND
Dieldrin	1		0.03	0.0020	ND
Endrin	1		2.00	0.0032	ND
Endrin Ketone	1		NLE	0.0026	ND
Endosulfan II	1		0.40	0.0022	ND
4,4'-DDD	1		0.10	0.0020	ND
4,4'-DDT	1		0.10	0.0052	ND
Endosulfan-Sulfate	1		0.40	0.0026	ND
Alpha-chlordane	1		0.50	0.0036	ND
Gamma-chlordane	1		0.50	0.0007	ND
Toxaphene	1		3.00	0.1517	ND
Arochlor 1016	1		0.50	0.0683	ND
Arochlor 1221	1		0.50	0.0666	ND
Arochlor 1232	1		0.50	0.0648	ND
Arochlor 1242	1		0.50	0.0485	ND
Arochlor 1248	1		0.50	0.0544	ND
Arochlor 1254	1		0.50	0.0608	ND
Arochlor 1260	1		0.50	0.0732	ND

<sup>\*</sup> Higher of PQL's and ground water criteria as per NJAC 7:9-6

ND = Not Detected

Column-Primary: Rtx-CLPesticides 30m/.32mm ID/.25um

MDL = Method Detection Limit

Column-Confirmation: Rtx-CLPesticides2 30m/.32mm ID/.25um

NLE = No Limit Established

# U.S. Army, Fort Monmouth Environmental Laboratory NJDEP Certification # 13461

Client: U.S. Army

Lab ID #: 144-149

DPW, SELFM-PW-EV

Sample Prepared: 1/16/01

Bldg. 173

Ft. Monmouth, NJ 07703

Site:

CW-2

Field ID#: Method Blank

Ft. Monmouth, New Jersey

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	01/16/01	ND	200	10.0
Antimony	01/16/01	ND	20	2.0
Arsenic	01/16/01	ND	.8	2.0
Barium	01/16/01	ND	2000	0.5
Beryllium	01/16/01	ND	20	0.5
Cadmium	01/16/01	ND	4	0.5
Calcium	01/16/01	98.3	NLE	20.0
Chromium	01/16/01	ND	100	0.5
Cobalt	01/16/01	ND	NLE	0.5
Copper	01/16/01	ND	1000	2.0
Iron	01/16/01	36.3	300	2.0
Lead	01/16/01	ND	10	1.0
Magnesium	01/16/01	ND	NLE	10.0
Manganese	01/16/01	ND	50	0.5
Mercury	01/17/01	ND	2	0.1
Nickel	01/16/01	ND	100	1.0
Potassium	01/16/01	ND	NLE	40.0
Selenium	01/16/01	ND	50	3.0
Silver	01/16/01	ND	20	1.0
Sodium	01/16/01	ND	50000	20.0
Thallium	01/16/01	ND	10	2.0
Vanadium	01/16/01	ND	NLE	0.5
Zinc	01/16/01	ND	5000	5.0

## U.S. Army, Fort Monmouth Environmental Laboratory **N.IDEP Certification # 13461**

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 144

Sample Received: 01/11/01

Sample Matrix: Aqueous

Site:

CW-2

Field ID#: Field Blank

Ft. Monmouth, New Jersey

Method of Digestion: E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	01/16/01	ND	200	10.0
Antimony	01/16/01	ND	20	2.0
Arsenic	01/16/01	ND	8	2.0
Barium	01/16/01	ND	2000	0.5
Beryllium	01/16/01	ND	20	0.5
Cadmium	01/16/01	ND	4	0.5
Calcium	01/16/01	ND	NLE	20.0
Chromium	01/16/01	ND	100	0.5
Cobalt	01/16/01	ND	NLE	0.5
Copper	01/16/01	ND	1000	2.0
Iron	01/16/01	ND	300	2.0
Lead	01/16/01	ND	10	1.0
Magnesium	01/16/01	64.4	NLE	10.0
Manganese	01/16/01	ND	50	0.5
Mercury	01/17/01	ND	2	0.1
Nickel	01/16/01	ND	100	1.0
Potassium	01/16/01	ND	NLE	40.0
Selenium	01/16/01	ND	50	3.0
Silver	01/16/01	ND	20	1.0
Sodium	01/16/01	ND	50000	20.0
Thallium	01/16/01	ND	10	2.0
Vanadium	01/16/01	ND	NLE	0.5
Zinc	01/16/01	ND	5000	5.0

# U.S. Army, Fort Monmouth Environmental Laboratory **NJDEP Certification # 13461**

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 145 Sample Received: 01/11/01

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: Dupe

Method of Digestion: E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	01/16/01	282	200	10.0
Antimony	01/16/01	ND	_20	2.0
Arsenic	01/16/01	5.88	8	2.0
Barium	01/16/01	207	2000	0.5
Beryllium	01/16/01	ND	20	0.5
Cadmium	01/16/01	ND	4	_0.5
Calcium	01/16/01	50200	NLE	20.0
Chromium	01/16/01	2.39	100	0.5
Cobalt	01/16/01	ND	NLE	0.5
Copper	01/16/01	ND	1000	2.0
Iron	01/16/01	143000	300	2.0
Lead	01/16/01	2.10	10	1.0
Magnesium	01/16/01	5740	NLE	10.0
Manganese	01/16/01	253	50	0.5
Mercury	01/17/01	ND	2	0.1
Nickel	01/16/01	1.24	100	1.0
Potassium	01/16/01	9440	NLE	40.0
Selenium	01/16/01	ND	50	3.0
Silver	01/16/01	ND	20	1.0
Sodium	01/16/01	13400	50000	20.0
Thallium	01/16/01	ND	10	2.0
Vanadium	01/16/01	2.89	NLE	0.5
Zinc	01/16/01	46.6	5000	5.0

# U.S. Army, Fort Monmouth Environmental Laboratory **N.IDEP Certification # 13461**

Client: U.S. Army

Lab ID #: 146

DPW, SELFM-PW-EV

Sample Received: 1/11/01

Bldg. 173

Ft. Monmouth, NJ 07703

Sample Matrix: Aqueous

Site:

CW-2

Field ID#: 0CW2MW30

Ft. Monmouth, New Jersey

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	01/16/01	38.1	200	10.0
Antimony	01/16/01	ND	20	2.0
Arsenic	01/16/01	3.48	8	2.0
Barium	01/16/01	62.1	2000	0.5
Beryllium	01/16/01	ND	20	0.5
Cadmium	6 01/16/01	ND	4	0.5
Calcium	01/16/01	59600	NLE	20.0
Chromium	01/16/01	1.29	100	0.5
Cobalt	01/16/01	ND	NLE	0.5
Copper	01/16/01	ND	1000	2.0
Iron	01/16/01	9730	300	2.0
Lead	01/16/01	ND	10	1.0
Magnesium	01/16/01	4690	NLE	10.0
Manganese	01/16/01	54.6	50	0.5
Mercury	01/17/01	0.2	2	0.1
Nickel	01/16/01	2.38	100	1.0
Potassium	01/16/01	7410	NLE	40.0
Selenium	01/16/01	7.20	50	3.0
Silver	01/16/01	ND	20	1.0
Sodium	01/16/01	22200	50000	20.0
Thallium	01/16/01	ND	10	2.0
Vanadium	01/16/01	1.25 ·	NLE	0.5
Zinc	01/16/01	7.46	5000	5.0

# Report of Analysis U.S. Army, Fort Monmouth Environmental Laboratory N.IDEP Certification # 13461

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 147

Sample Received: 1/11/01

Sample Matrix: Aqueous

Site:

CW-2

Field ID#: 0CW2MW31

Ft. Monmouth, New Jersey

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

#### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	01/16/01	ND	200	10.0
Antimony	01/16/01	ND	20	2.0
Arsenic	01/16/01	ND	8	2.0
Barium	01/16/01	252	2000	0.5
Beryllium	01/16/01	ND	20	0.5
Cadmium	01/16/01	ND	4	0.5
Calcium	01/16/01	56600	NLE	20.0
Chromium	01/16/01	ND	100	0.5
Cobalt	01/16/01	ND	NLE	0.5
Copper	01/16/01	ND	1000	2.0
Iron	01/16/01	78800	300	2.0
Lead	01/16/01	ND	10	1.0
Magnesium	01/16/01	7030	NLE	10.0
Manganese	01/16/01	294	50	0.5
Mercury	01/17/01	0.2	2	0.1
Nickel	01/16/01	ND	100	1.0
Potassium	01/16/01	10600	NLE	40.0
Selenium	01/16/01	5.28	50	3.0
Silver	01/16/01	ND	20	1.0
Sodium	01/16/01	12600	50000	20.0
Thallium	01/16/01	ND	10	2.0
Vanadium	01/16/01	ND	NLE	0.5
Zinc	01/16/01	9.44	5000	5.0

# U.S. Army, Fort Monmouth Environmental Laboratory **N.IDEP Certification # 13461**

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 148

Sample Received: 1/11/01

Sample Matrix: Aqueous

Site:

CW-2

Field ID#: 0CW2MW32

Ft. Monmouth, New Jersey

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

### TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	01/16/01	63.2	200	10.0
Antimony	01/16/01	ND	_20	2.0
Arsenic	01/16/01	5.59	8	2.0
Barium_	01/16/01	49.9	2000	0.5
Beryllium	01/16/01	ND	_20	0.5
Cadmium	01/16/01	ND	4	0.5
Calcium	01/16/01	91500	NLE	20.0
Chromium	01/16/01	1.60	100	0.5
Cobalt	01/16/01	ND	NLE	0.5
Copper	01/16/01	ND	1000	2.0
Iron	01/16/01	11500	300	2.0
Lead	01/16/01	ND	10	1.0
Magnesium	01/16/01	9330	NLE	10.0
Manganese	01/16/01	23.0	50	0.5
Mercury	01/17/01	ND	2	0.1
Nickel	01/16/01	1.26	100	1.0
Potassium	. 01/16/01	3000	NLE	40.0
Selenium	01/16/01	5.34	50	3.0
Silver	01/16/01	ND	20	1.0
Sodium	01/16/01	20000	50000	20.0
Thallium	01/16/01	ND	10	2.0
Vanadium	01/16/01	3.87	NLE	0.5
Zinc	01/16/01	36.5	5000	5.0

# U.S. Army, Fort Monmouth Environmental Laboratory **N.JDEP Certification # 13461**

Client: U.S. Army

DPW, SELFM-PW-EV

Bldg. 173

Ft. Monmouth, NJ 07703

Lab ID #: 149

Sample Received: 1/11/01

Sample Matrix: Aqueous

Site:

CW-2

Ft. Monmouth, New Jersey

Field ID#: 0CW2MW33

Method of Digestion:

E.P.A SW-846, Method 3015A

Method of Analysis:

Std. Methods 18th, Method 3120B, 3112B

## TAL-METALS RESULTS SUMMARY (ug/L)

Element	Date of	Result	Regulatory	MDL
	Analysis	(ug/L)	Level (ug/L)*	(ug/L)
Aluminum	01/16/01	37.1	200	10.0
Antimony	01/16/01	ND	20	2.0
Arsenic	01/16/01	3.02	8	2.0
Barium	01/16/01	204	2000	0.5
Beryllium	01/16/01	ND	20	0.5
Cadmium	01/16/01	ND	4	0.5
Calcium	01/16/01	51900	NLE	20.0
Chromium	01/16/01	5.90	100	0.5
Cobalt	01/16/01	ND	NLE	0.5
Copper	01/16/01	182	1000	2.0
Iron	01/16/01	106000	300	2.0
Lead	01/16/01	41.2	10	1.0
Magnesium	01/16/01	5890	NLE	10.0
Manganese	01/16/01	251	50	0.5
Mercury	01/17/01	0.2	2	0.1
Nickel	01/16/01	7.50	100	1.0
Potassium	01/16/01	9650	NLE	40.0
Selenium	01/16/01	ND	50	3.0
Silver	01/16/01	ND	20	1.0
Sodium	01/16/01	12800	50000	20.0
Thallium	01/16/01	ND	10	2.0
Vanadium	01/16/01	0.866	NLE	0.5
Zinc	01/16/01	346	5000	5.0

	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water	Notes
Units:	-	ug/l	ug/l	ug/l	ug/l	ugl	Feet	-
NJDEP Criteria:	-	300	50	200	8	10	-	-
04/24/1997	FMETL	9100	69	ND	ND	ND	6.45	V,S,P,M
07/10/1997	FMETL	12590	73	25	5.0	ND	7.05	V,S,P,M
10/22/1997	FMETL	34800	171	175	5.0	5.0	7.60	V,S,P,M
01/08/1998	FMETL	2795	5.0	204	ND	4.0	5.20	. V,S,P,M
04/07/1998	FMETL	3504	39.3	196	5.6	ND	6.56	V,S,P,M
07/14/1998	FMETL	10900	57.8	65.7	ND	ND	6.89	V,S,P,M
11/24/1998	FMETL	27500	182	ND	11.5	3.15	7.86	V,S,P,M
02/11/1999	FMETL	11000	100	505	8.3	ND	7.24	V,S,P,M
06/09/1999	FMETL	8210	145	521	6.33	ND	7.21	V,S,P,M
08/04/1999	FMETL	44800	212	304	9.05	6.02	7.43	V,S,P,M
11/03/1999	FMETL	6540	36.3	92.7	6.06	ND	7.02	V,S,P,M
02/15/2000	FMETL	1840	2.69	20.4	ND	ND	7.02	V,S,P,M
05/08/2000	FMETL	7410	73.1	105	ND	46.6	7.15	V,S,P,M
05/08/2000D	FMETL	8090	74.9	133	ND	13.7	7.15	V,S,P,M
08/02/2000	FMETL	2040	15.2	ND	ND	21.8	6.86	V,S,P,M
10/12/2000	FMETL	8150	39.4	100	3.95	ND	7.31	V,S,P,M
01/11/2001	FMETL	9730	54.6	38.1	3.48	ND	7.32	V,S,P,M

SOURCE: 0CW2MW30

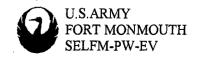
Sampling Dates: 04/24/1997 - 01/11/2001

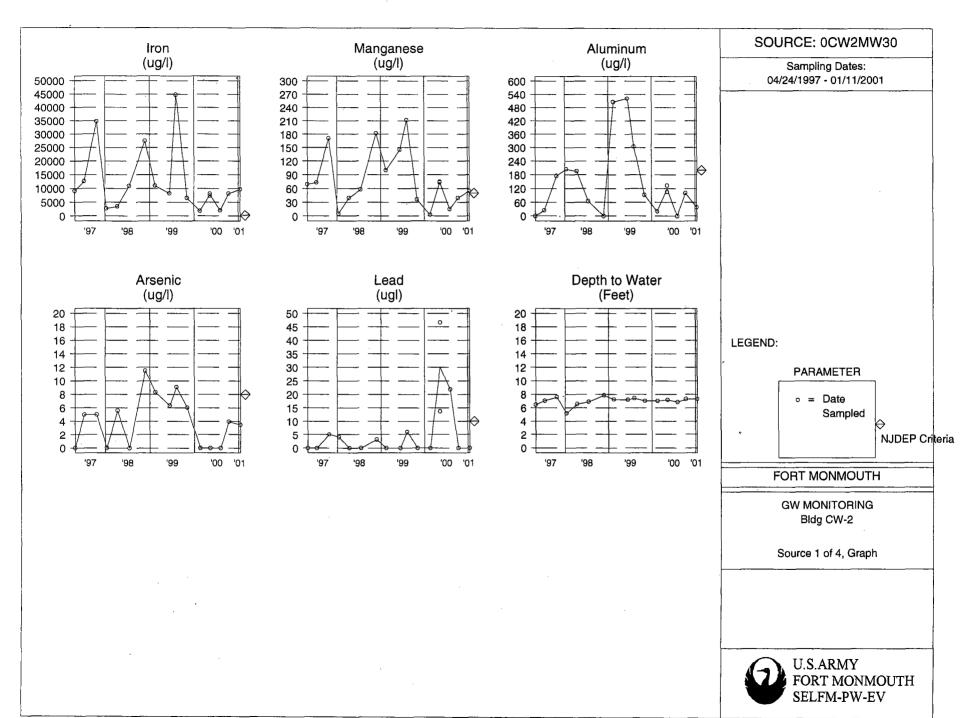
NOTES:

## FORT MONMOUTH

GW MONITORING Bldg CW-2

Source 1 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water			Notes
Units:	_	ug/l	ug/l	ug/l	ug/l	ugi	Feet	 	<del> </del>	-
NJDEP Criteria:	-	300	50	200	8	10	-			-
04/24/1997	FMETL	59900	277	ND	ND	ND	6.38	 		V,S,P,M
07/10/1997	FMETL	11830	267	ND	1.0	ND	7.00			V,S,P,M
10/22/1997	FMETL	52300	243	93	ND	6.0	7.50			V,S,P,M
01/08/1998	FMETL	68450	240	129	ND	25	6.30			V,S,P,M
04/07/1998	FMETL	115100	266	ND	ND	ND	6.35			V,S,P,M
07/14/1998	FMETL	83600	311	390	ND	4.85	6.71			V,S,P,M
11/24/1998	FMETL	72800	322	ND -	ND	2.33	7.78			V,S,P,M
02/11/1999	FMETL	71900	316	ND	ND	ND	7.07			V,S,P,M
06/09/1999	FMETL	104000	326	27.9	ND	ND	7.15			V,S,P,M
08/04/1999	FMETL	77500	347	ND	ND	ND	7.65			V,S,P,M
11/03/1999	FMETL	64600	309	14.9	ND	ND	7.18			V,S,P,M
02/15/2000	FMETL	111000	301	11.7	ND	ND	7.03			V,S,P,M
05/08/2000	FMETL	86000	343	ND	ND	ND	6.96			V,S,P,M
08/02/2000	FMETL	68900	294	14.7	ND	2.44	6.73			V,S,P,M
10/12/2000	FMETL	62100	294	20.6	ND	ND	7.16			V,S,P,M
01/11/2001	FMETL	78800	294	ND	ND	ND	7.16			V,S,P,M

SOURCE: 0CW2MW31

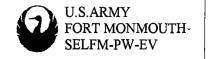
Sampling Dates: 04/24/1997 - 01/11/2001

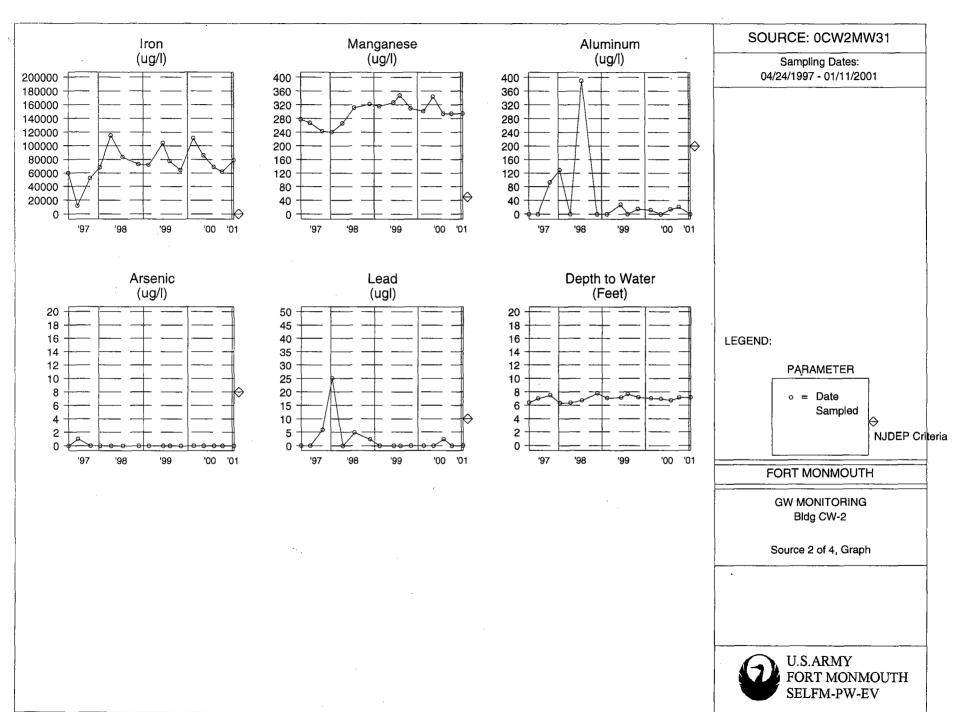
NOTES:

FORT MONMOUTH

GW MONITORING Bldg CW-2

Source 2 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water		Notes
Units:	- ,	ug/l	ug/l	ug/l	ug/l	ugl	Feet		-
NJDEP Criteria:	•	300	50	200	8	10	-		-
04/24/1997	FMETL	18400	125	ND	ND	ND	6.65		V,S,P,M
07/10/1997	FMETL	270	181	595	ND	ND	7.20		V,S,P,M
10/22/1997	FMETL	51100	260	297	ND	7.0	7.70		V,S,P,M
01/08/1998	FMETL	1484	3.7	163	ND	ND	4.50		V,S,P,M
04/07/1998	FMETL	19280	287	ND	ND	ND	6.81		V,S,P,M
07/14/1998	FMETL	67500	287	78.1	2.51	3.99	7.06		V,S,P,M
11/24/1998	FMETL	106000	342	166	9.32	4.08	7.94		V,S,P,M
02/11/1999	FMETL	4480	7.02	137	ND	ND	7.33		V,S,P,M
06/09/1999	FMETL	64300	310	59.5	ND	ND	7.49		V,S,P,M
08/04/1999	FMETL	76000	369	67.4	ND	ND	7.85		V,S,P,M
11/03/1999	FMETL	11500	27	162	4.09	ND	6.53		V,S,P,M
02/15/2000	FMETL	11300	53.9	95.7	ND	ND	6.54		V,S,P,M
02/15/2000D	FMETL	112000	297	53.1	ND	ND	6.54		V,S,P,M
05/08/2000	FMETL	55700	382	51.4	ND	ND	7.29		V,S,P,M
08/02/2000	FMETL	4700	8.74	21.8	4.14	2.96	5.93		V,S,P,M
08/02/2000D	FMETL	4130	7.99	28.1	ND	38.3	5.93		V,S,P,M
10/12/2000	FMETL	39900	326	238	4.55	ND	7.35		V,S,P,M
01/11/2001	FMETL	11500	23.0	63.2	5.59	ND	6.98		V,S,P,M

SOURCE:	0CW2MW32
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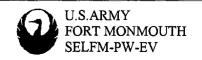
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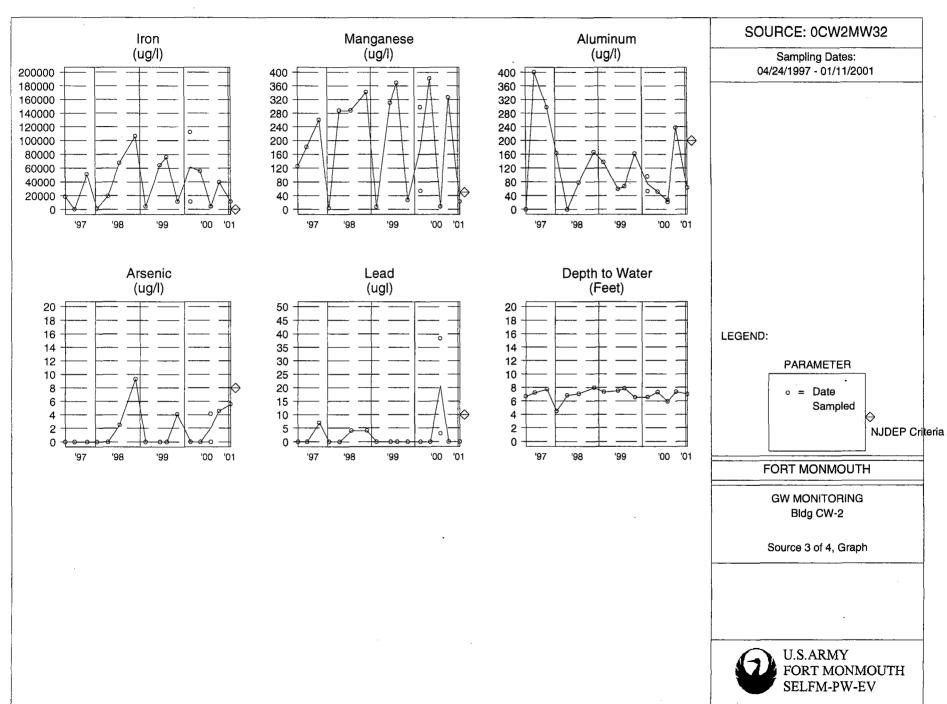
NOTES:

### FORT MONMOUTH

GW MONITORING Bldg CW-2

Source 3 of 4





	Lab	Iron	Manganese	Aluminum	Arsenic	Lead	Depth to Water		Not	es
Units:	-	ug/l	ug/l	ug/l	ug/l	ugl	Feet		-	
NJDEP Criteria:	-	300	50	200	8	10	-			
04/24/1997	FMETL	88600	424	ND	ND	ND	8.95		V,S,I	P,M
07/10/1997	FMETL	10260	519	2.1	1.0	ND	9.10		V,S,I	P,M
10/22/1997	FMETL	26800	151	94	ND	4.0	9.10		V,S,I	P,M
01/08/1998	FMETL	104700	342	217	6.0	4.0	9.00		V,S,i	P,M
04/07/1998	FMETL	19780	110	119	3.4	ND	9.50	·	V,S,I	P,M
07/14/1998	FMETL	35900	130	411	ND	4.19 ·	9.09		V,S,I	P,M
11/24/1998	FMETL	25400	87.8	125	ND	ND	9.13		V,S,I	
02/11/1999	FMETL	11300	81.2	67.8	ND	ND	8.13		V,S,	
06/09/1999	FMETL	69600	214	336	5.82	ND	9.13		V,S,	
08/04/1999	FMETL	35900	149	69	8	3.25	9.15		V,S,	P,M
11/03/1999	FMETL	19500	47.2	52.8	ND	ND	6.14		V,S,	P,M
02/15/2000	FMETL	54400	201	96.2	2.67	3.77	9.09		V,S,	
05/08/2000	FMETL	36500	242	29.3	ND	ND	8.13		V,S,	
08/02/2000	FMETL	13400	81.4	38.2	ND	1.50	9.12		V,S,	
10/12/2000	FMETL	38800	188	109	3.69	29.7	9.11		V,S,	
10/12/2000D	FMETL	40900	183	110	2.43	ND	9.11		V,S,	
01/11/2001	FMETL	106000	251	37.1	3.02	41.2	9.14		V,S,	
01/11/2001D	FMETL	143000	253	282	5.88	2.10	9.14		V,S,	P,M

SOURCE: 0CW2MW33

Sampling Dates: 04/24/1997 - 01/11/2001

NOTES:

## FORT MONMOUTH

**GW MONITORING** Bldg CW-2

Source 4 of 4

