



New Jersey Department of Environmental Protection

Site Remediation Program

Report Certifications for RCRA GPRA 2020, CERCLA, and Federal Facility Sites

These certifications are to be used for reports submitted for RCRA GPRA 2020, CERCLA, and Federal Facility Sites. The Department has developed guidance for report certifications for RCRA GPRA 2020, CERCLA, and Federal Facility Sites under traditional oversight. The "Person Responsible for Conducting the Remediation Information and Certification" is required to be submitted with each report. For those sites that are required or opt to use a Licensed Site Remediation Professional (LSRP) the report must also be certified by the LSRP using the "Licensed Site Remediation Professional Information and Statement". For additional guidance regarding the requirement for LSRPs at RCRA GPRA 2020, CERCLA and Federal Facility Sites see http://www.nj.gov/dep/srp/srra/training/matrix/quick_ref/rcra_cercla_fed_facility_sites.pdf.

Document: "Request for No Further Action at FTMM-47 Site Investigation Report Addendum"

PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: William R. Colvin

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This certification shall be signed by the person responsible for conducting the remediation who is submitting this notification in accordance with Administrative Requirements for the Remediation of Contaminated Sites rule at N.J.A.C. 7:26C-1.5(a).

I certify under penalty of law that I have personally examined and am familiar with the information submitted herein, including all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, to the best of my knowledge, I believe that the submitted information is true, accurate and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties.

Signature: _____

Date: 06/06/2017

Name/Title: William R. Colvin / BRAC Environmental Coordinator



DEPARTMENT OF THE ARMY

OFFICE OF ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
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6 June 2017

Ms. Linda Range
New Jersey Department of Environmental Protection
Case Manager
Bureau of Southern Field Operations
401 East State Street, 5th Floor
PO Box 407
Trenton, NJ 08625

**Re: Request for No Further Action at FTMM-47
Site Investigation Report Addendum
Fort Monmouth, New Jersey**

Enclosures:

- A. Figure 1: Main Post Layout and FTMM-47 Locations
- B. Key Historical Report (list on cover sheet)
- C. Correspondence (list on cover sheet)
- D. Building 1002 IRA Report
- E. Building 1208 and 1209 IRA Report

Dear Ms. Range:

The U.S. Army Fort Monmouth (FTMM) Team has completed interim removal actions for polychlorinated biphenyl (PCB) transformer impacts within Installation Restoration Program (IRP) Site FTMM-47 at Buildings 1002, 1208, and 1209 (Figure 1 of **Attachment A**). This Site Investigation (SI) addendum report describes the removal of PCB-impacted soil and concrete at these locations, as well as confirmation sampling activities.

This SI report also provides a brief overview of the parcel designation of FTMM-47 at Building 1002 (located within Environmental Condition of Property [ECP] Parcel 55), Building 1208 (Parcel 106), and Building 1209 (Parcel 107). Between 1989 and 1990, all electrical transformers were tested at FTMM, and 33 transformers, including those in Buildings 1002, 1208, and 1209, were found to be PCB transformers (transformers with oil concentrations greater than 500 parts per million PCBs). Following this testing, PCB transformers at FTMM were either replaced or refurbished. Subsequent documents (Weston, 1993 and 1995) reported the concrete sampling at former FTMM-47 PCB transformers that had evidence of leakage. Sample results for PCBs from the stained concrete were 8,400 milligrams per kilogram (mg/kg) at Building 1002, 19,000 mg/kg at Building 1208, and 1,500 mg/kg at Building 1209 (Weston, 1995).

A summary of the PCB impacted concrete at Buildings 1002, 1208, and 1209 was provided in the January 2007 ECP Report (U.S. Army BRAC, 2007; excerpts provided in **Attachment B**). It was

reported that NJDEP issued an NFA for FTMM-47; however, NJDEP comments (**Attachment C**) indicate there was not a NFA determination on file for FTMM-47. Therefore, the documented PCB spills identified at Buildings 1002, 1208, and 1209 have not achieved regulatory closure.

Removal of PCB-contaminated concrete at Buildings 1002, 1208, and 1209 started in December 2015 and was completed by August 2016, as summarized by each building below. NJDEP has established soil cleanup standards for PCBs under New Jersey Administrative Code (NJAC) 7:26E Technical Requirements for Site Remediation: the Residential Direct Contact Soil Remediation Standard (RDCSRS) is 0.2 mg/kg and the nonresidential standard (NDCSRS) is 1 mg/kg. Although the RDCSRS was developed for soil, the RDCSRS has also been used for comparison to concrete concentrations in anticipation of acceptance for non-restricted use (i.e., to support a NFA determination). The Toxic Substances Control Act (TSCA) unrestricted use standard is 1 mg/kg.

Building 1002

Interim removal actions (**Attachment D**) at Building 1002 were performed by Tetra Tech, Inc. between December 2015 and August 2016. Concrete samples were initially collected from sample points along the centerline of the removed transformer that confirmed the presence of Aroclor-1254.

In December 2015, an approximately 8.5 foot by 6.5 foot by 6 inches thick PCB-impacted concrete slab was removed, and sub-slab soil samples were collected at 17 locations as well as concrete samples at two adjacent locations (Figure 1 and Photograph 3 of **Attachment D**). Multiple Aroclor detections exceeded the total Aroclor RDCSRS of 0.2 mg/kg and the total Aroclor NRDCSRS of 1.0 mg/kg (Attachment 3 Table 1 of **Attachment D**).

In August 2016, an additional 2 foot by 2 foot of the PCB impacted concrete slab was removed, and soil was then excavated to a depth of 1.5 feet below the concrete slab. Seven soil samples and two duplicates were collected at or adjacent to previous PCB exceedances and analyzed for PCBs and extractable petroleum hydrocarbons (EPH) (Figure 2 and Photograph 4 of **Attachment D**). The confirmation soil and concrete sample results were below the TSCA and NJAC 7:26E unrestricted use standards (**Attachment D**). Therefore, additional remediation is not planned for Building 1002.

Building 1208

Interim removal actions at Building 1208 were performed by Tetra Tech, Inc. between December 2015 and July 2016 (**Attachment E**). Initially, a PCB-impacted concrete slab was removed (approximately 16.5 foot by 7 foot by 4 inches thick). Fifteen sub slab soil samples and 6 concrete samples were collected at 19 locations (Figure 1 and Photograph 1 of **Attachment E**). Multiple concrete samples exceeded the Aroclor RDCSRS of 0.2 mg/kg (Attachment 3 Table 1 of **Attachment E**).

In July 2016, additional PCB impacted concrete was removed (approximately 3 foot by 11 foot along the east side of the excavation and 2 foot by 11 foot along the west side of the excavation). Soil was then excavated to a depth of 0.5 feet below where the concrete slab was removed. Six soil samples and 1 duplicate was collected at or adjacent to previous PCB exceedances and analyzed for PCBs and EPH (Figure 2 and Photographs of **Attachment E**). The confirmation soil and concrete sample results were below the TSCA and NJAC 7:26E unrestricted use standards (**Attachment E**). Therefore, additional remediation is not planned for Building 1208.

Building 1209

Interim removal actions at Building 1209 were performed by Tetra Tech, Inc. between December 2015 and July 2016 (**Attachment E**). Initially, a PCB-impacted concrete slab was removed (approximately 12.5 foot by 6-foot by 4 inches thick). Nineteen sub slab soil samples and 6 concrete samples were collected at 19 locations (Figure 3 and Photograph 3 of **Attachment E**). Multiple soil and concrete sample results exceeded the Aroclor RDCSRS of 0.2 mg/kg.

In July 2016, additional PCB impacted concrete was removed (approximately 2 foot by 11 foot along the east side of the excavation and 2 foot by 12 foot along the west side of the excavation). Soil was then excavated to a depth of 0.5 feet below where the concrete slab was removed, and approximately 1.5 feet of soil below the concrete slab that was removed at the south end of the excavation. Eight soil samples and one concrete confirmation sample were collected at or adjacent to previous PCB exceedances and analyzed for PCBs and EPH (Figure 4 and Photograph 4 of **Attachment E**). The confirmation soil and concrete sample results were below the TSCA and NJAC 7:26E unrestricted use standards (**Attachment E**). Therefore, additional remediation is not planned for Building 1209.

NFA determinations are requested for PCB impacted soil and concrete at Buildings 1002, 1208, and 1209. The technical Point of Contact (POC) for this matter is Kent Friesen at (732) 383-7201 or kent.friesen@parsons.com. Should you have any questions or require additional information, please contact me by phone at (732) 380-7064 or by email at william.r.colvin18.civ@mail.mil.

Sincerely,



William R. Colvin, PMP, CHMM, PG
BRAC Environmental Coordinator

cc: Linda Range, NJDEP (2 hard copies)
Joseph Pearson, Calibre (e-mail)
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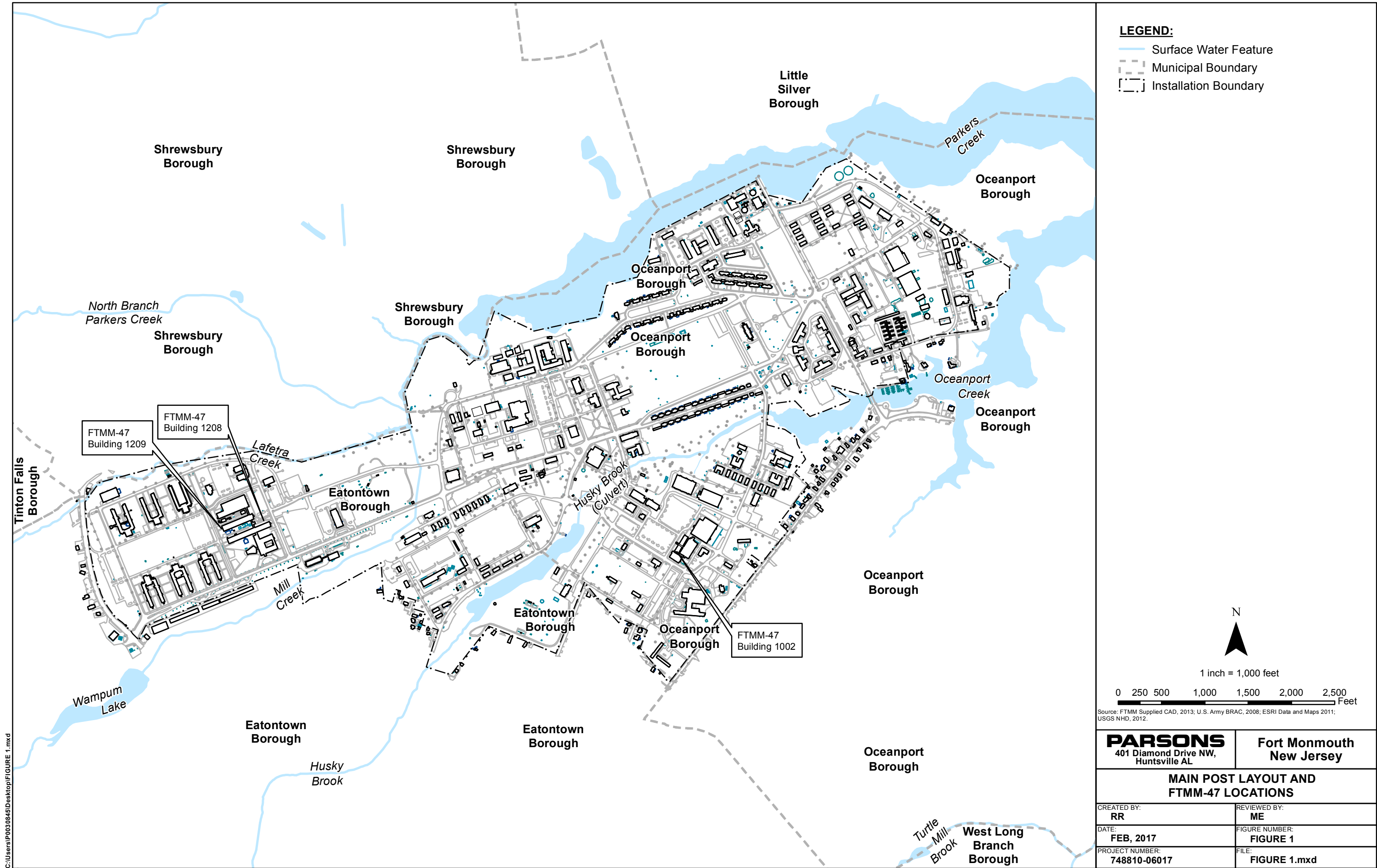
References Cited:

United States (US) Army Base Realignment and Closure (BRAC). 2007. *2005 Environmental Condition of Property Report, Fort Monmouth, Monmouth County, New Jersey*. Final. January 29.

US Army BRAC. 2008. *Site Investigation Report Fort Monmouth*. Final. July 21. Weston (Roy F. Weston Inc.). 1993. *Investigation of Suspected Hazardous Waste Sites at Fort Monmouth, New Jersey*. Prepared for Directorate of Engineering and Housing, Fort Monmouth, New Jersey. December.

Weston (Roy F. Weston Inc.). 1995. *Final Site Investigation – Main Post and Charles Wood Areas, Fort Monmouth, New Jersey*. December.

Attachment A
Figures



PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
MAIN POST LAYOUT AND FTMM-47 LOCATIONS	
CREATED BY: RR	REVIEWED BY: ME
DATE: FEB, 2017	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-06017	FILE: FIGURE 1.mxd

Attachment B
Key Historical Report

FTMM-47 Excerpts from Fort Monmouth Environmental Condition of Property Report, 2007

natural gas. The DPW's approach involved installing new gas lines and new gas-fed boilers and removing the out of service USTs. Only 13 USTs remain in service at MP and CWA, none of which are used to store heating oil. All buildings at the MP and CWA are heated by means of natural gas with the exception of several buildings that are heated and cooled through geothermal heating and cooling systems. It should also be noted that the homes located at the trailer park are propane heated (7,8,9).

Diesel fuel is stored in emergency generator day tanks throughout the facility to maintain critical systems during times of power disruption. Emergency generator unit sizes and locations are discussed in **Section 4.4.4**. Additionally, nine vehicular mobile emergency generators and one skid-mounted emergency generator, ranging in size from 45 to 200 kilowatts, are stored at MP Building 750 for use throughout the facility.

Fort Monmouth has a comprehensive and thorough tank management program. The disposition of current and former UST/ASTs are summarized in **Section 5.4**. This tank disposition was used in determining the potential presence of environmental conditions associated with petroleum storage.

1.2.7 Non-UST/AST Petroleum Storage

As stated above, the majority of fuel storage was in tanks. However, FTMM has multiple areas that were formerly used for motor pools, vehicle repair, and vehicle storage. All of these areas stored small amounts of petroleum.

1.2.8 PCBs

The electrical distribution system located on FTMM properties is owned and operated by the U.S. Army. The electrical distribution system is comprised of transformers, oil switches, circuit breakers and voltage regulators. The MP has approximately 372 oil-filled pieces of electrical equipment of which 194 units are pole mounted, 135 are outside pad mounted and 43 are inside pad mounted. The CWA has approximately 254 oil-filled pieces of electrical equipment of which 171 units are pole mounted and 83 are outside pad mounted. Presently, five electrical substations are maintained and operated by the DPW. Three substations are located on the MP and two are located in the CWA (8).

The FTMM PCB management program consists of determining the level of PCBs in all electrical transformers and removing all PCB-class transformers. Prior to 1988, all oil-filled electrical equipment at FTMM was assumed to be PCB-class equipment and was labeled as such. In November 1988, FTMM initiated a program to sample and analyze all equipment that did not have a manufacturer's label indicating that it was Non-PCB. Testing of all oil-filled transformers, capacitors, voltage regulators, and switches was completed by June 1990. Thirty-three pieces of equipment were identified (CWA, MP and Evans) as being PCB class, 96 as being PCB-contaminated, and 520 as being Non-PCB. In addition, 224 pieces were identified, from the manufacturer's nameplate, as being Non-PCB (10). **Section 5.5.1** presents a summary of the program including sample locations and dates.

As stated above, the majority of the issues related to PCB containing equipment have been resolved. There are some PCB issues that have been addressed as part of the IRP (i.e., CW-7, FTMM-47, and FTMM-09). A few issues related to PCBs remain unresolved. Storage of transformers behind Building 167 took place in the past. No documented spills were noted and no environmental samples were collected in the area. Additionally, a subset of current/former transformer pads had samples of the surrounding soil collected and analyzed for PCBs. PCBs were detected in some soil samples (11). Records of remediation were found, except for Building 292.

1.2.9 Asbestos-Containing Materials

Fort Monmouth has actively investigated and managed asbestos-containing materials (ACM). Out of 470 buildings managed as part of the DPW asbestos program, 191 buildings have been surveyed and an additional 153 buildings are similar enough to surveyed buildings so that survey results can be used to assess the building status. FTMM also has actively removed asbestos as part of building renovations. A total of 72 buildings have been gutted or constructed after 1987 so that there are no ACM concerns. There are 54 buildings where a survey has not been performed. **Section 5.6** presents a summary of asbestos surveys, remediation, and results at FTMM. Due to the age of the facilities and the limited number of buildings remediated thus far, ACM potentially exists at the majority of buildings on FTMM (12,13).

1.2.10 Lead-Based Paint

Most facilities and buildings at FTMM were constructed before the DoD ban on the use of lead-based paint (LBP) in 1978 and are likely to contain one or more coats of such paint. In addition, some facilities constructed immediately after the ban may also contain LBP, because inventories of such paints that were in the supply network were likely to have been used up at these facilities (14,15,18).

The first LBP Risk Assessment was conducted in 1996. The residential buildings assessed were divided into four groups based on similar construction histories and a representative group of surveys was conducted for each area. The majority of the areas where LBP was identified were subsequently demolished or renovated. However, some residential structures have not had any removal or encapsulation performed (14,15,18). Currently there are 177 residential buildings at FTMM, many of which contain multiple housing units. The current status of the 177 residential buildings includes: 29 buildings that have been completely gutted and all exterior LBP surfaces removed or encapsulated; 55 have had all exterior LBP encapsulated; and 93 have had no abatement. **Section 5.7** presents a discussion LBP issues.

1.2.11 Radiological Materials

The presence of RAM at FTMM has been predominantly limited to certain areas and functions of the installation. Historically, laboratory R&D in the areas of radio and electronics, use of vacuum tubes and radium dials, use of ionizing radiation-producing machines, and use of military support equipment such as night vision goggles that contain radioactive commodities, have been among the activities most commonly using

associated with historical operations at this building are discussed in **Section 5.4.2** of this report.

- Building 1105 (silver brazing) (37). Building 1105 is currently used for administrative purposes by the Directorate of Emergency Services (DES) Police Union (building trustee list). No evidence of an environmental release associated with this operation was identified as part of this ECP.

4.3.2.1.8 Pool Chlorinator Facility

Building 114 – Main Post Indoor Pool. The FTMM MP Indoor Pool (Building 114) was built in 1954 and has a 160,600-gallon recirculation type heated pool. It has one pump with a design recirculation capacity of 400 gallons per minute (gpm) and a vacuum type diatomaceous earth filter with a surface area of 300 square feet. Originally, disinfection was accomplished by the continuous addition of chlorine gas to the recirculated water and the chlorinator was not separated from the pool personnel offices. USAEHA personnel recommended enclosing the chlorinator area to separate it from the office area for safety concerns associated with the chlorine gas (31). There have been no reported problems with the water quality at this pool. At the time of the VSI, the chlorinator was located in a separate small building adjacent to Building 114 which was dedicated to the chlorinator and the storage of pool treatment chemicals. Chlorination is currently performed through the addition of liquid sodium hypochlorite. A review of the DPW map and engineering drawings repository showed pool drain and backwash connections leading from Building 114 to sewage pump station Building 114A. Sanitary and storm mains are shown connected to Building 114A; although the storm piping is labeled "normally closed" (74). No evidence of an environmental release associated with this operation was identified as part of this ECP.

4.3.2.1.9 Commercial

Building 282 – Fire Station. Building 282 is the MP fire station. Floor drains were noted in the building, and a sump was located in the basement during the VSI. According to plans from 1933, both are connected to the sanitary sewer system (75). No evidence of an environmental release associated with this operation was identified as part of this ECP.

Building 1002 – Post Exchange. Building 1002 is the FTMM Post Exchange which sells pre-packaged household cleaning supplies, garden supplies and pesticides. During the 2006 VSI, floor drains were noted in the basement, and stormwater intakes (possible dry wells) were located in the courtyard outside the building. No plans for the building were found in the DPW map and engineering drawings repository. Transformers currently located on a concrete pad are Non-PCB class equipment. Previous transformers were designated PCB-contaminated class equipment [50-499 parts per million (ppm)] (see **Section 5.2.1.2**, Site FTMM-47). No evidence of an environmental release associated with these current operations was identified as part of this ECP.

from soil borings located adjacent to the piezometer locations, which contained the highest product thickness. Groundwater samples were collected using the Geoprobe® and analyzed for VOA +15 and semivolatile constituents. No concentrations detected exceeded the NJDEP Groundwater Quality Criteria for those constituents tested. The extent of the contaminated soil has been delineated both vertically and horizontally as well as the areal extent of floating product. Limited migration of contaminants from the source area has occurred. Based on the results of the investigation, a remedial design consisting of the excavation and removal of contaminated soil exceeding the NJDEP Residential Direct Contact Soil Cleanup Criteria for TPHC of 10,000 ppm and the recovery of free-phase petroleum hydrocarbons was initiated in November 2002. Soil excavation activities were completed in February 2003. An estimated 4,000 tons of excessively contaminated soil was removed from the site. In January 2003, five monitoring wells were installed to establish the areal extent of petroleum hydrocarbon impacts to groundwater and serve as sentinel wells. Groundwater samples are collected on a quarterly basis. The installation of an automated product recovery system consisting of eight 6-inch diameter recovery wells and air driven product recovery pumps was completed in February 2003. Although the system was constructed, it was never used due to an insufficient amount of product to recover. An RA report is currently being prepared and will be submitted to the NJDEP upon its completion. Currently, as part of the monitoring program, five groundwater monitoring wells are sampled on a quarterly basis and five recovery wells are sampled on an annual basis. The cleanup strategy is to perform compliance monitoring of five groundwater monitoring wells as a key component of monitored natural attenuation.

5.2.1.2 Main Post NFA IRP Sites

The following sites at MP are listed as response complete in the FTMM AEDBR. An NFA determination for seven of these sites (FTMM-07, FTMM-09, FTMM-10, FTMM-11, FTMM-13, FTMM-17, and FTMM-21) was approved by the NJDEP in 1994. An NFA determination for FTMM-19 was approved by the NJDEP in 1996. One site, FTMM-47, is described in the Installation Action Plan (IAP) as NFA approved; however, the date of NJDEP approval is not indicated. NJDEP approval of an NFA determination for sites FTMM-04, FTMM-14, FTMM-15, FTMM-16, and FTMM-20 has yet to be received.

Table 5-10 lists the MP NFA IRP sites.

Table 5-10
Main Post No Further Action Installation
Restoration Program Sites

AEDB-R Number	Site Name	Associated Buildings	Status
FTMM-04	M-4 Landfill	none	NFA pending NJDEP approval
FTMM-06	M-6 Burning Area	none	NFA (incorporated into FTMM-03)
FTMM-07	M-7 Burning Area	Building 697 incinerator	NFA approved by NJDEP 1994

AEDB-R Number	Site Name	Associated Buildings	Status
FTMM-09	M-9 Former PCB Transformer Site	Buildings 1150 and 1152	NFA approved by NJDEP 1994
FTMM-10	M-10 Asbestos Storage Area	Building 1220	NFA approved by NJDEP 1994
FTMM-11	M-11 Elevated Water Tank	Building 557	NFA approved by NJDEP 1994
FTMM-13	M-13 Pathogenic Waste Incinerator	PAHC, Building 1076	NFA approved by NJDEP 1994
FTMM-14	M-14 Landfill	none	NFA pending NJDEP approval
FTMM-15	M-15 Water Tank	Building 486	RI with NFA recommendation will be submitted
FTMM-16	M-16 Former Pesticide Storage Area	Building 498	RA report with NFA recommendation will be submitted
FTMM-17	M-17 Former Pesticide Storage Area	Former Building 65	NFA approved by NJDEP 1994
FTMM-19	AOC 3 Former MP Sanitary Treatment Plant	none	NFA approved by NJDEP 1996
FTMM-20	Pre-1941 Former MP Sanitary Treatment Plant	none	NFA pending NJDEP approval
FTMM-21	Former MP Firing Range	none	NFA approved by NJDEP 1994
FTMM-47	Former PCB Transformer Sites	Buildings 292, 686, 718, 1002, 1004, 1208, 1209, 1220	NFA approved (date unknown)

A summary of each site listed above in **Table 5-10** follows. Unless otherwise noted, all information pertaining to these sites was obtained from communications with FTMM DPW personnel during document reviews associated with the assembly of this report.

FTMM-04: M-4 Landfill. The M-4 landfill is located on MP in the area bounded by Avenue of Memories to the south, North Drive to the north, Mill Creek to the west and Wilson Avenue to the east. The 1.4-acre landfill operated from 1955 until 1956. The types of materials disposed of in the landfill have been reported to include: construction debris, scrap metal, ACMS, vegetative waste, unwashed containers which previously held hazardous materials/wastes, outdated photographic chemicals, small quantities of outdated drugs, sludge from the STP, soot and boiler scale, incinerator ash, oil spill debris, oil filters, batteries, fluorescent tubes, and electronic components. Under the SI phase, three monitoring wells were installed to evaluate groundwater quality. All samples were analyzed for TCL + 30 parameters, TAL metals and cyanide. A single pesticide (4,4'-DDT) was detected in an upgradient monitoring well above NJDEP Groundwater Quality Criteria. As of 2002, 15 consecutive quarterly rounds of groundwater samples had been collected for subsequent analysis. Lead was initially

collected from the former wastewater discharge point at Parkers Creek. The sediment sample was analyzed for TAL metals. Arsenic, cadmium, chromium and zinc were detected at concentrations slightly exceeding NJDEP Sediment Criteria and background levels. Under the RI phase, additional sediment samples were collected to further delineate the extent of the heavy metal contamination at the site. The RI work was completed in April 2000. The findings of the RI revealed that heavy metal concentrations at the site were consistent with background metal concentrations from nearby, undisturbed locations. An RI report requesting an NFA determination was submitted to the NJDEP in March of 2004. No response has been received from the NJDEP.

FTMM-21: Former Main Post Firing Range. Evidence of an outdoor pistol range located in the 1200 area of the MP was uncovered during preparation of the PA report. The former range was located just east of Building 1220, along North Drive. A long-term DPW employee indicated that the pistol range was operational between the late 1930s and the early 1950s. The range was closed with the onset of construction activities in the 1200 area. Small arms training was moved to NWS Earle following closure of the MP facility. The former location of the pistol range has been developed for some forty years, no evidence of the former range exists at this time. Grounds in the general vicinity of the former range, which were not affected by construction, are completely grass covered. An NFA determination was approved by the NJDEP in 1994 (November 7, 1994, NJDEP correspondence, included in **Appendix N**).

FTMM-47: Former PCB Transformer Sites. FTMM-47 was investigated under the IRP. The following is a description of work done under the IRP. For additional discussion of FTMM transformers, refer to **Section 5.5**. All locations where PCB transformers had formerly been located were inspected for evidence of spills. Eight sites were identified where a PCB transformer was either formerly located over soil and/or concrete with signs of visible oil staining. The former PCB transformer locations on MP are as follows: Buildings 292, 686, 718, 1002, 1004, 1208, 1209, and 1220. PCB transformers formerly utilized at Buildings 292, 686, 718, and 1004 were located over soil. Transformers formerly utilized at Buildings 1002, 1208, and 1209 were located over concrete. Transformers formerly utilized at Building 1220 were located both over soil and concrete. Under the SI phase, soil and concrete chip samples were collected for PCB analysis. PCB results for all soil samples were detected below the NJDEP Direct Contact Soil Cleanup Criteria. Elevated PCB levels were identified in the concrete samples collected from Buildings 1002, 1208, and 1209. Upon further evaluation conducted under the IRP, the oil staining at each of these locations is generally minor in nature, both in their horizontal distribution and in the depth at which the staining penetrates the concrete. These minor source areas are not a threat to human health or the environment. At present the active use of transformers at Buildings 1002, 1208, and 1209 preclude the possibility of any remedial work. At such time when the transformers are replaced or removed from service, the minor PCB source areas shall be addressed accordingly. An NFA determination was approved by the NJDEP.

(32,34,35,36). Building 485 was demolished in 1997 (53). Building 485 is considered a REC due to the potential for releases from historical operations.

5.5 PCBs

PCB-Class oils are defined by TSCA as oils containing 500 ppm PCBs or greater. PCB-contaminated oils are defined by TSCA as oils containing between 50 ppm and 499 ppm of PCBs. Non-PCB oils are defined by TSCA as oils containing less than 50 ppm PCBs. Electrical oil having PCB concentrations at or less than 49 ppm is considered a Class D recyclable material in the state of New Jersey (8).

5.5.1 Transformers

The electrical distribution system located on FTMM properties is owned and operated by the U.S. Army. The electrical distribution system is comprised of transformers, oil switches, circuit breakers, and voltage regulators. The MP has approximately 372 oil-filled pieces of electrical equipment of which 194 units are pole mounted, 135 pieces are outside pad mounted units and 43 pieces are inside pad mounted units. The CWA has approximately 254 oil-filled pieces of electrical equipment of which 171 units are pole mounted and 83 pieces are outside pad mounted units. Presently, five electrical substations are maintained and operated by the DPW. Three substations are located on the MP, and two substations are located in the CWA (8).

The FTMM PCB management program consists of determining the level of PCB in all electrical transformers and removing all PCB-class transformers. Prior to 1988, all oil-filled electrical equipment at FTMM was assumed to be PCB-class equipment and was labeled as such. In November 1988, FTMM initiated a program to sample and analyze all equipment that did not have a manufacturer's label indicating that it was non-PCB. Testing of all oil-filled transformers, capacitors, voltage regulators, and switches was completed by June 1990. Thirty-three pieces of equipment were identified (CWA, MP and Evans) as being PCB class, 96 as being PCB-contaminated, and 520 as being Non-PCB. In addition, 224 pieces were identified from the manufacturer's nameplate as being Non-PCB (10).

To fulfill the requirements of TSCA, FTMM initiated an action to remove or remediate all PCB-class equipment. Of the 33 PCB-class pieces of equipment, all of which were transformers, 29 were removed. The other 4 transformers were drained, and the PCB oil was replaced with Non-PCB oil. The four transformers were resampled and tested for PCB content within 90 days after being retrofilled. All four transformers now have PCB levels less than 50 ppm and are classified as being Non-PCB. Therefore, there are currently no PCB-class pieces of equipment at FTMM (10).

Per the 1993 Investigation of Suspected Hazardous Waste Sites at Fort Monmouth (10), the locations of each of the 33 former PCB-class transformers were visually inspected for evidence of leaks or spills and sampling was proposed. A list of these locations can be found in the report. Of the samples collected, four of the eight transformers at the MP (Buildings 1002, 1208, 1209, and northwest side of 292) were found to have PCBs

in soil or concrete above applicable cleanup criteria. A final report in 1995 stated that additional soil sampling was to be conducted at Building 292 (11). No records were identified indicating that this sampling had been carried out. One of four samples at the CWA (northeast of Building 2000) was found to have PCBs in soil or concrete above applicable cleanup criteria (11). Building 2000 is the CW-7 IRP site. These sites are discussed further in this section. PCB-contaminated (50 to 500 ppm) transformer areas were not evaluated.

At the time of the Investigation of Suspected Hazardous Waste Sites (10), FTMM had begun to remove and/or retrofill PCB-contaminated equipment. Since 2003, all transformers on FTMM have been Non-PCB. The CWA was completed in 1996 and the MP was completed in 2003 (7). The PCB Annual Document Reports are included in **Appendix M**. During the 2006 VSI, numerous transformer pad sites and substations were inspected. During these inspections, there were no transformers labeled as PCB and no signs of active leaks or spills. No RECs are associated with these activities.

CW-7: Building 2000, Former PCB Transformer Site. The 1980 IA report (48) listed Site CW-7 at CWA as “PCB (transformers)” but did not provide any additional information. The location identified on the site map is where Buildings 2000, 2018, 2019, 2020, 2021, and 2067 are located. Three transformers from this area were determined to be PCB transformers and were removed in 1990 (10). The CW-7 site (FTMM-29) exhibited elevated levels of PCBs within site soil. Under the RI phase, additional soil samples were collected to further delineate the extent of the PCB contamination at the site. The RI work was completed in July 1996. The RA for the CW-7 site (FTMM-29) involved the removal and off-site disposal of soil contaminated by PCBs. Cleanup activities for the CW-7 site were completed in June 1998. An RA report was submitted to NJDEP recommending NFA. No response has been received from NJDEP (124). This site is considered to be a REC.

FTMM-47: Buildings 1002, 1208, and 1209 Former PCB Transformer Site. Elevated PCB levels were identified in the concrete samples collected from Buildings 1002, 1208, and 1209. Upon further evaluation, the oil staining at each of these locations is generally minor in nature, both in their horizontal distribution and in the depth at which the staining penetrates the concrete. These minor source areas are not a threat to human health or the environment. At present, the active use of transformers at Buildings 1002, 1208, and 1209 preclude the possibility of any remedial work. At such time when the transformers are replaced or removed from service, the minor PCB source areas shall be addressed accordingly. NFA determination was approved by the NJDEP (124). During the 2006 VSI of Building 1002, stormwater intakes (possible dry wells) were located in the courtyard outside the building. No engineering drawings for the building were found in the DPW map and engineering drawings repository. This site is considered a REC.

FTMM-09: Buildings 1150 and 1152 (Main Post) Former PCB Transformer Site. The 1980 IA report (48) listed Site M-9 on the MP as “PCB (Transformer)” but did not provide any additional information. The location identified in the IA is where Buildings 1150 and 1152 are located. In the 1995 SI, it was reported that these transformers had

Attachment C

Correspondence

1. NJDEP letter to the Army dated 17 April 2007, Subject: *Community Environmental Response Facilitation Act (CERFA) Report and Environmental Condition of Property Report, Fort Monmouth, New Jersey.*



State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Division of Remediation Management & Response
P.O. Box 413
Trenton, New Jersey 08625-0413

JON S. CORZINE
Governor

LISA P. JACKSON
Commissioner

April 17, 2007

Colonel Ricki L. Sullivan
U.S. Army Garrison, Fort Monmouth
286 Sanger Avenue
Fort Monmouth, NJ 07703-5101

RE: Community Environmental Response Facilitation Act (CERFA) Report and
Environmental Condition of Property (ECP) Report
Fort Monmouth, NJ

Dear Colonel Sullivan:

The NJDEP Division of Remediation Management & Response (DRMR) has reviewed the following reports on Fort Monmouth:

1. Community Environmental Response Facilitation Act (CERFA) Report dated 29 January 2007,
2. Environmental Condition of Property (ECP) Report dated 29 January 2007.

Our comments are attached. NJDEP did not review the entire ECP Report and Appendices. Our review concentrated on the classification of properties in the CERFA Report, which is based upon the ECP Report. As you will see, NJDEP disagrees with the classification of several parcels on both the Main Post and the Charles Wood Area. Therefore, we don't concur with the CERFA and ECP Reports in their current form. However, we have not taken issue with any of the parcels that were designated as "uncontaminated property".

Thank you for the opportunity to comment on the CERFA and ECP Reports. I look forward to continuing to work with your staff to address the remaining site remediation areas of concern at Fort Monmouth.

You or your staff may contact me at 609-633-0766 with any questions on the enclosed comments, or any other site remediation matters at Fort Monmouth.

Sincerely,

A handwritten signature in cursive script, appearing to read "Larry Quinn".

Larry Quinn, P.E., CHMM, Case Manager
Bureau of Case Management

Attachiment

C:

Joseph Fallon, DPW, Fort Monmouth

NJDEP COMMENTS ON CERFA REPORT & ECP REPORT
FORT MONMOUTH SITE

1. ECP Parcel Category Definitions: NJDEP has the following concerns regarding the category definitions:
 - a) Category 2 is defined as "Areas where **only** release or disposal of petroleum products has occurred" (emphasis added). That language could lead outside parties to conclude that such areas are of no environmental concern, when in fact, sites where gasoline has been released can be of great environmental concern. This category also gives no indication that response actions have been initiated or completed, as the hazardous substance categories do.
 - b) Category 7 is defined as "Areas that are not evaluated **or** require additional evaluation" (emphasis added). The "or" creates uncertainty, as the category could be read as simply "Areas that are not evaluated", with no further action taken. A clearer definition would be "Areas that require further evaluation".
2. FTMM-4 and FTMM-14 Landfills: NJDEP concurs with these AOCs as Category 5. However, they shouldn't be grouped with "NFA sites" in Section 5.2.1.2 of the ECP report. NJDEP hasn't prepared official written comments yet, but based upon preliminary reviews, NFA won't be issued for these sites in their present condition.
3. FTMM-15 (Parcel 78, Water Tank) and FTMM-16 (Parcel 81, Former Pesticide Storage Area): These are both designated as Category 4 in the ECP. They should both be changed to Category 5, pending submission and approval of the RA Reports, as it is possible that additional sampling or cleanup will be needed at these AOCs.
4. FTMM-20 (Parcel 75, Pre-1941 Former Main Post STP): This AOC is designated as Category 3. Category 7 would be more appropriate, pending NJDEP review of the NFA request.
5. FTMM-47 (Buildings 1002, 1208, 1209 Former PCB Transformer Sites): This AOC is designated as Category 2 (Building 1002) and Category 1 (Buildings 1208 & 1209). Since the report text states that the minor PCB source areas will be addressed when the transformers are replaced or removed from service, all 3 areas should be Category 5. Also, we found no confirmation of the statement on Page 5-64 of the ECP Report that "NFA determination was approved by the NJDEP."
6. Parcel 53 (700 Area): This AOC is designated as Category 4. NJDEP has recently determined that ground water sampling and additional delineation of soil contamination are required at this AOC. Therefore, Category 5 is the appropriate classification.

NJDEP COMMENTS ON CERFA REPORT & ECP REPORT
FORT MONMOUTH SITE

7. Parcel 56 (800 Area): This AOC is designated as Category 4. NJDEP has recently determined that ground water sampling and additional delineation of soil contamination are required at this AOC. Therefore, Category 5 is the appropriate classification.
8. Parcel 82: The ECP Parcel Summary in Appendix A states that PCB contaminated soil was excavated at this small AOC within the 400 Area. However, no description of such a cleanup could be found in the text. The narrative on "Site Number 12, Buildings 121, 122 & 123" in Section 5.5.2 appears to discuss this area, but with no mention of a cleanup. NJDEP is therefore unable to concur with the Category 4 designation for Parcel 82. We would concur if all soils with PCBs greater than 0.49 mg/kg were removed and ground water wasn't impacted.
9. FTMM-23 (CW-2 Wastewater Treatment Lime Pit): This AOC is not specifically shown on CERFA Figure 1, but falls within Parcel 15, which is designated as Category 7. This AOC should be shown on Figure 1 and designated as Category 5, pending NJDEP review of the NFA request.
10. FTMM-28 (Parcel 7, CW-6 Former Pesticide Storage Building): This AOC is designated as Category 4. Category 5 would be more appropriate, pending NJDEP review of the NFA request.
11. FTMM-29 (Parcel 12, CW-7 Former PCB Transformer Location): This AOC is designated as Category 4. NJDEP has recently determined that PCBs in soil greater than the RDCSCC of 0.49 mg/kg were left at this AOC, so Category 5 is the appropriate classification.
12. Radiological AOCs: The Final "Historical Site Assessment and Addendum to Environmental Condition of Property Report" dated January 2007, by Cabrera Services addresses potential radiological areas of concern. Section 5.8 of the ECP Report summarizes the findings of that report. Neither report definitively states what future actions will be taken at the identified radiological AOCs. The ECP Report states on page 5-75 "The buildings and survey areas found to be potentially impacted include building Nos. 275, 283, 292, and 2540," yet nothing is said about future actions. Those 4 buildings should be fully investigated and remediated if necessary, and should also be Category 5 in the CERFA Report.

Bc:

K. Petrone, BCM

J. Prendergast, BEERA

L. Whitesell, BGWPA

B. Venner, BCM

E. Putnam, RRE

K. Koschek, Environmental Regulation

Attachment D
Building 1002 IRA Report



1 November 2016

Mr. William R. Colvin, PMP, CHMM, PG
Fort Monmouth BRAC Environmental Coordinator
P.O. Box 148
Oceanport, New Jersey 07757

**Re: Interim Removal Action at Building 1002,
Fort Monmouth, Oceanport, New Jersey
Contract Number W912DY-10-D-0015, Task Order 0007
DCN: TTEC-WERS-17-0022**

ATTACHMENTS:

1. Figures
2. Photographs
3. Tabulated Analytical Results
4. Laboratory Analytical Results
5. New Jersey Requirements for Soil Compliance Averaging N.J.A.C. 7:26E-4.9(c)3i
6. Waste Disposal Information

Dear Mr. Colvin:

The purpose of this letter report is to document the tasks and methods associated with completing the interim removal action (IRA) of polychlorinated biphenyl- (PCB-) contaminated soil and concrete at Building 1002 to facilitate the transfer of property from Fort Monmouth (FTMM) to the private sector under the Base Realignment and Closure (BRAC) program.

SITE DESCRIPTION

Fort Monmouth is a former installation of the Department of the Army (Army) in Monmouth County, New Jersey. The post is surrounded by the communities of Eatontown, Tinton Falls and Oceanport, New Jersey, and is located about 5 miles from the Atlantic Ocean. The post covers nearly 1,126 acres of land, from the Shrewsbury River on the east, to Route 35 on the west; this area is referred to as 'Main Post'. A separate area (Camp Charles Wood) to the west includes post housing, a golf course, and additional office and laboratory facilities; this area was previously transferred to the Fort Monmouth Economic Revitalization Authority.

The installation began operation in September 1917. Additional land was purchased, and at its peak during World War II, FTMM measured 1,713 acres, and had billeting space for 1,559 officers and 19,786 enlisted personnel. The post was home to 1) several units of the U.S. Army Materiel Command; 2) offices of the Army Acquisition Executive that research and manage Command and Control, Communications, Computing, Intelligence, Surveillance and Reconnaissance capabilities and related technology; 3) an academic preparatory school; 4) an explosive ordnance disposal unit; 5) a garrison services unit; 6) an Army health clinic; and 7) a Veterans Administration health clinic. Other agencies, including the Federal Bureau of Investigation, Federal Emergency Management Agency and the National Security Agency, were also located at FTMM.

Tetra Tech, Inc.

1093 Commerce Park Drive Suite 100, Oak Ridge, Tennessee 37830
Tel 865.483.9900 Fax 865.425.1182 www.tetrattech.com



The post was selected for closure by the BRAC Program in 2005. Most Army functions and personnel were required to be moved to Army facilities in Maryland, such as Aberdeen Proving Ground, and Ohio by 2011. FTMM officially closed on September 15, 2011.

SCOPE OF WORK

In June 2015, a records review conducted by FTMM identified three areas with documented PCB spills that had been sampled but had not achieved regulatory closure. Building 1002 was identified as a transformer site requiring additional action due to the presence of PCBs in concrete. During a 1989 investigation, oil from the transformer was found to contain PCBs. This transformer was replaced in 1990. An area of stained concrete was first noted in 1995 and concrete sample results exhibited a PCB concentration of 8,400 milligrams per kilogram (mg/kg).

Tetra Tech was tasked with conducting an IRA for the PCB-contaminated slab at Building 1002.

ANALYTICAL RESULTS

Tetra Tech completed initial concrete sampling at Building 1002 on 13 October 2015. Surficial concrete samples were collected using a hammer drill and chisel bit from 0 to 0.5 inches (in.). The samples were collected and any remaining concrete residue was removed. Deeper samples (1 to 4 in.) were also collected using a hammer drill.

Photographs 1 and 2 (Attachment 2) taken prior to and after the sampling event document conditions and sample locations. A total of eight samples were collected from four sample points along the centerline (lengthwise) of the former transformer location as follows:

- Sample points S1 and S2 were located to the south and north of the center point, respectively, offset by 20-inches from the center. Samples S101/S201 were collected at 0 to 0.5 in. depth; samples S102/S202 were collected at 1 to 4 in. depth.
- Sample points S3 and S4 were off set from S1 and S2, respectively, by 20 in. along the centerline; samples S301/S401 were collected at 0 to 0.5 in. depth; samples S302/S402 were collected at 1 to 4 in. depth.

The New Jersey Site Remediation Program has established residential and non-residential direct contact Soil Remediation Standards (SRS) for PCBs. The Residential SRS (RSRS) is 0.2 mg/kg and the Nonresidential SRS (NRSRS) is 1 mg/kg.

The four surficial samples were positive for the presence of Aroclor-1254. Only two of the four exceeded the RSRS. Total PCB concentrations for the surficial samples are as follows:

- S101 at 0.49 mg/kg (exceeds RSRS)
- S201 at 0.75 mg/kg (exceeds RSRS)
- S301 at 0.10 mg/kg
- S401 at 0.14 mg/kg

The deeper samples (1 to 4 in. depth) were all non-detect for PCBs. Sample results from the October 2015 sampling event are summarized in **Table 1**.

In December 2015, Tetra Tech removed an approximately 6 in. thick, PCB-impacted concrete slab that was 8.5 feet (ft.) by 6.5 ft. (**Photograph 3**). Twenty-four sub-slab soil samples were collected at 17 locations following the concrete removal. In addition, concrete samples were collected at two adjacent locations, 008 and 012 (**Figure 1**).



Nineteen soil samples had Aroclor detections with six exceeding the total Aroclor RSRS of 0.2 mg/kg and six exceeding the total Aroclor NRSRS of 1.0 mg/kg. Three shallow and three deep soil samples exceeded the total Aroclor RSRS of 0.2 mg/kg. Four shallow and two deeper soil samples exceeded the total Aroclor NRSRS of 1.0 mg/kg. The two concrete samples taken at locations 008 and 012 also exceeded the total Aroclor RSRS. The highest total Aroclor concentration of 5.7 mg/kg was detected at shallow soil sample location 014. The sample locations and results are shown on **Figure 1**. **Table 1** summarizes the laboratory results for this event.

In accordance with Letter Work Plan dated 2 June 2016, *Removal of PCB-Contaminated Materials at Buildings 1002, 1208 and 1209 and Parcel 97 (Building 978)*, removal of PCB-impacted concrete and soil above the total Aroclor RSRS of 0.2 mg/kg and soil confirmation sampling was completed.

In August 2016, Tetra Tech and its subcontractor AWT Environmental Services removed concrete and soil from areas identified during the December 2015 investigation. **Figure 2** shows the 2 ft. by 2 ft. area of concrete removed at sample locations 008 and 012. Soil was then excavated to a depth of 1.5 ft. below where the concrete slab was removed in both December and July (**Photograph 4**).

Seven soil confirmation samples and two field duplicates were collected at or adjacent to previous PCB exceedances and analyzed for PCBs and extractable petroleum hydrocarbons (EPH) to verify concentrations below the RSRS had been achieved (**Figure 2** and **Table 2**). There were no EPH detections in any of the confirmation samples. Two samples had Aroclor detections at 0.043 mg/kg at location 023 (below the RSRS of 0.2 mg/kg) and 0.46 mg/kg at location 012 (above the RSRS). The requirements of N.J.A.C. 7:26E-4.9(c)3i (**Attachment 5**) allow the average contaminant concentration of an area of remediation to determine compliance with remediation standards or soil cleanup criteria rather than the individual sample concentration. Using the confirmation sampling results from the most recent samples, including the exceedance at sample location 012, a compliance average of 0.0664 mg/kg was calculated, which is below the RSRS of 0.2 mg/kg. The calculation of the compliance average is provided in **Table 3**. The confirmation sample results are below the Toxic Substances Control Act (TSCA) unrestricted use standard of 1 mg/kg.

On 1-3 August 2016, Tetra Tech coordinated the loadout of potentially PCB-impacted soils from Building 1002 in conjunction with the loadout of materials from Buildings 1208, 1209, and 978 (Parcel 97). The material was transported to the Wayne Disposal, Inc. landfill facility in Belleville, Michigan. Water collected during the decontamination activities for Buildings 1002, 1208, and 1209 was stored in three 55-gallon drums and removed on 29 August 2016 to Cycle Chem. Inc. in Elizabeth, New Jersey for disposal. Waste disposition documentation is provided in **Attachment 6**.

CONCLUSIONS AND RECOMMENDATIONS

This letter report summarizes the IRA of PCB-impacted soil and concrete at Building 1002. As presented herein, concrete and soil impacted by PCBs have been successfully removed under the IRA meeting New Jersey RSRS and TSCA unrestricted use standards. As such, no further remediation is recommended in Building 1002. Should you have any questions or require additional information, please do not hesitate to contact the undersigned at (865) 220-4757 or via e-mail at mikael.spangberg@tetratech.com.

Sincerely,

Mikael L. Spangberg, P.E., PMP
Program Manager



Document Distribution List

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Attn: William Colvin
100 Barton Ave.
Oceanport, NJ 07757

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ATTACHMENT 1

FIGURES

BUILDING 1002 INTERIOR

CONCRETE FLOOR

AROCLOL RESULTS

- Detect > NRSRS
- Detect > RSRS < NRSRS
- Detect < RSRS
- Not Detected
- Not Sampled

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S006-01	Aroclor (Total)	0.6-0.7	1.94	0.027
FM-1002-S006-01	Aroclor-1242	0.6-0.7	1.2	0.027
FM-1002-S006-01	Aroclor-1254	0.6-0.7	0.74	0.027

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S003-01	Aroclor (Total)	0.6-0.7	0.14	0.026
FM-1002-S003-01	Aroclor-1242	0.6-0.7	0.14	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S005-01	Aroclor (Total)	0.6-0.7	1.05	0.027
FM-1002-S005-01	Aroclor-1242	0.6-0.7	0.52	0.027
FM-1002-S005-01	Aroclor-1254	0.6-0.7	0.53	0.027
FM-1002-S005-02	Aroclor (Total)	0.8-1.0	0.24	0.027

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S007-01	Aroclor (Total)	0.6-0.7	0.63	0.027
FM-1002-S007-01	Aroclor-1242	0.6-0.7	0.40	0.027
FM-1002-S007-01	Aroclor-1254	0.6-0.7	0.23	0.027

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S010-01	Aroclor (Total)	0.6-0.7	0.77	0.027
FM-1002-S010-01	Aroclor-1242	0.6-0.7	0.50	0.027
FM-1002-S010-01	Aroclor-1254	0.6-0.7	0.27	0.027
FM-1002-S010-02	Aroclor (Total)	0.8-1.0	1.82	0.028
FM-1002-S010-02	Aroclor-1242	0.8-1.0	1.2	0.028
FM-1002-S010-02	Aroclor-1254	0.8-1.0	0.62	0.028

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S009-01	Aroclor (Total)	0.6-0.7	1.95	0.027
FM-1002-S009-01	Aroclor-1242	0.6-0.7	1.3	0.027
FM-1002-S009-01	Aroclor-1254	0.6-0.7	0.65	0.027
FM-1002-S009-02	Aroclor (Total)	0.6-0.7	0.22	0.026
FM-1002-S009-02	Aroclor-1242	0.6-0.7	0.22	0.026

Sample ID	Depth (ft)	Analyte	Result	RL
FM-1002-C012-01	0.0-0.04	Aroclor (Total)	0.74	0.026
FM-1002-C012-01	0.0-0.04	Aroclor-1254	0.59	0.026

Sample ID	Depth (ft)	Analyte	Result	RL
FM-1002-C008-01	0.0-0.04	Aroclor (Total)	0.455	0.026
FM-1002-C008-01	0.0-0.04	Aroclor-1254	0.37	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S011-01	Aroclor (Total)	0.6-0.7	0.12	0.027
FM-1002-S011-01	Aroclor-1242	0.6-0.7	0.12	0.027
FM-1002-S011-02	Aroclor (Total)	0.8-1.0	1.7	0.027
FM-1002-S011-02	Aroclor-1242	0.8-1.0	0.91	0.027
FM-1002-S011-02	Aroclor-1254	0.8-1.0	0.79	0.027

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S014-01	Aroclor (Total)	0.6-0.7	5.7	0.027
FM-1002-S014-01	Aroclor-1242	0.6-0.7	4.3	0.027
FM-1002-S014-01	Aroclor-1254	0.6-0.7	1.4	0.027

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S016-01	Aroclor (Total)	0.6-0.7	0.052	0.026
FM-1002-S016-01	Aroclor-1242	0.6-0.7	0.052	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S017-01	Aroclor (Total)	0.6-0.7	0.14	0.026
FM-1002-S017-01	Aroclor-1242	0.6-0.7	0.14	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S019-01	Aroclor (Total)	0.6-0.7	0.064	0.026
FM-1002-S019-01	Aroclor-1242	0.6-0.7	0.064	0.026

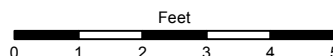
Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S017-01	Aroclor (Total)	0.6-0.7	0.057	0.026
FM-1002-S017-01	Aroclor-1242	0.6-0.7	0.057	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S015-01	Aroclor (Total)	0.6-0.7	0.43	0.026
FM-1002-S015-01	Aroclor-1242	0.6-0.7	0.43	0.026
FM-1002-S015-02	Aroclor (Total)	0.8-1.0	0.76	0.027
FM-1002-S015-02	Aroclor-1242	0.8-1.0	0.54	0.027
FM-1002-S015-02	Aroclor-1254	0.8-1.0	0.22	0.027

CONCRETE REMOVED
NO SOIL REMOVED



TETRA TECH



NOTES:

1. All results are expressed in units of mg/kg.
2. RL = Reporting Limit
3. The Impact to GW Residential Soil Screening Level and Residential Soil Remediation Standard (RSRS) is 0.2 mg/kg. Exceedances are shaded orange.
4. The Non-Residential Soil Remediation Standard (NRSRS) is 1.0 mg/kg. Exceedances are shaded red.
5. Detections beneath the Residential Cleanup Standard are shaded yellow.

FORT MONMOUTH, NJ

FIGURE 1
BLDG. 1002 SAMPLING RESULTS - DEC. 2015

AROCLOL RESULTS

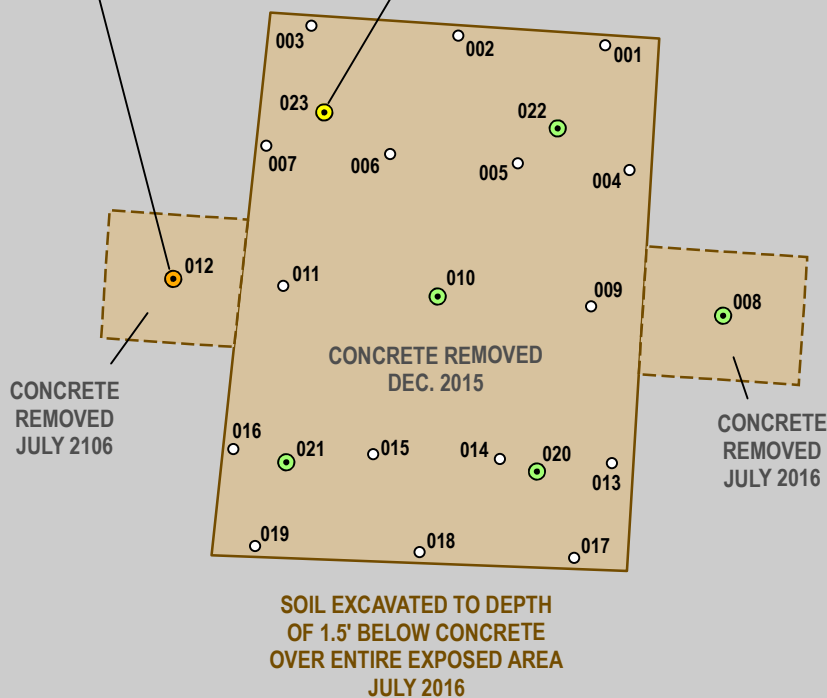
- Detect > RSRS < NRSRS
- Detect < RSRS
- Not Detected
- Not Sampled

BUILDING 1002 INTERIOR

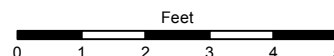
CONCRETE FLOOR

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S012-01	Aroclor (Total)	2.0-2.1	0.46	0.027
FM-1002-S012-01	Aroclor-1242	2.0-2.1	0.46	0.027

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1002-S023-01	Aroclor (Total)	2.0-2.1	0.043	0.027
FM-1002-S023-01	Aroclor-1242	2.0-2.1	0.043	0.027



TETRA TECH



NOTES:
 1. All results are expressed in units of mg/kg.
 2. RL = Reporting Limit
 3. The Impact to GW Residential Soil Screening Level and Residential Soil Remediation Standard (RSRS) is 0.2 mg/kg. Exceedances are shaded orange.
 4. The Non-Residential Soil Remediation Standard (NRSRS) is 1.0 mg/kg. Exceedances are shaded red.
 5. Detections beneath the Residential Cleanup Standard are shaded yellow.

FORT MONMOUTH, NJ
FIGURE 2
BLDG. 1002 SAMPLING RESULTS - JULY 2016

ATTACHMENT 2
PHOTOGRAPHS



Photograph 1. Building 1002, PCB concrete sampling locations S3, S1, S2, and S4 from left to right in photo, view west, 13 October 2015.



Photograph 2. Building 1002, PCB concrete sample locations, view west October 2015.



Photograph 3. Building 1002, PCB soil and concrete sample locations, view north, 18 December 2015.



Photograph 4. Building 1002, PCB soil sample locations, view northeast, 2 August 2016.

ATTACHMENT 3
TABULATED ANALYTICAL RESULTS

Table 1
PCB Remediation at Building 1002
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

Analytical Method Parameter Units RSRS (mg/kg) NRSRS (mg/kg)					EPA 8082A Aroclor (Total) mg/kg 0.2 1	EPA 8082A Aroclor-1016 mg/kg 0.2 1	EPA 8082A Aroclor-1221 mg/kg 0.2 1	EPA 8082A Aroclor-1232 mg/kg 0.2 1	EPA 8082A Aroclor-1242 mg/kg 0.2 1	EPA 8082A Aroclor-1248 mg/kg 0.2 1	EPA 8082A Aroclor-1254 mg/kg 0.2 1	EPA 8082A Aroclor-1260 mg/kg 0.2 1
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix								
FM 1002-S101	10/13/2015	0	0.04	Concrete	0.49	ND	ND	ND	ND	ND	0.49	ND
FM 1002-S102	10/13/2015	0.1	0.3	Concrete	ND	ND	ND	ND	ND	ND	ND	ND
FM 1002-S201	10/13/2015	0	0.04	Concrete	0.75	ND	ND	ND	ND	ND	0.75	ND
FM 1002-S202	10/13/2015	0.1	0.3	Concrete	ND	ND	ND	ND	ND	ND	ND	ND
FM 1002-S301	10/13/2015	0	0.04	Concrete	0.1	ND	ND	ND	ND	ND	0.1	ND
FM 1002-S302	10/13/2015	0.1	0.3	Concrete	ND	ND	ND	ND	ND	ND	ND	ND
FM 1002-S401	10/13/2015	0	0.04	Concrete	0.14	ND	ND	ND	ND	ND	0.14	ND
FM 1002-S402	10/13/2015	0.1	0.3	Concrete	ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-C008-01	12/17/2015	0	0.04	Concrete	0.455	ND	ND	ND	0.085	ND	0.37	ND
FM-1002-C008-02	12/17/2015	0.2	0.3	Concrete	ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-C012-01	12/17/2015	0	0.04	Concrete	0.74	ND	ND	ND	0.15	ND	0.59	ND
FM-1002-C012-02	12/17/2015	0.2	0.3	Concrete	0.055	ND	ND	ND	ND	0.055	ND	ND
FM-1002-S001-01	12/16/2015	0.6	0.7	SOIL	ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S002-01	12/16/2015	0.6	0.7	SOIL	ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S003-01	12/16/2015	0.6	0.7	SOIL	0.14	ND	ND	ND	0.14	ND	ND	ND
FM-1002-S004-01	12/16/2015	0.6	0.7	SOIL	ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S005-01	12/16/2015	0.6	0.7	SOIL	1.05	ND	ND	ND	0.52	ND	0.53	ND
FM-1002-S005-02	12/16/2015	0.8	1	SOIL	0.24	ND	ND	ND	0.11	ND	0.13	ND
FM-1002-S006-01	12/16/2015	0.6	0.7	SOIL	1.94	ND	ND	ND	1.2	ND	0.74	ND
FM-1002-S007-01	12/16/2015	0.6	0.7	SOIL	0.63	ND	ND	ND	0.4	ND	0.23	ND
FM-1002-S009-01	12/16/2015	0.6	0.7	SOIL	1.95	ND	ND	ND	1.3	ND	0.65	ND
FM-1002-S009-02	12/16/2015	0.8	1	SOIL	0.22	ND	ND	ND	0.22	ND	ND	ND
FM-1002-S010-01	12/16/2015	0.6	0.7	SOIL	0.77	ND	ND	ND	0.5	ND	0.27	ND
FM-1002-S010-02	12/16/2015	0.8	1	SOIL	1.82	ND	ND	ND	1.2	ND	0.62	ND
FM-1002-S011-01	12/16/2015	0.6	0.7	SOIL	0.12	ND	ND	ND	0.12	ND	ND	ND
FM-1002-S011-02	12/16/2015	0.8	1	SOIL	1.7	ND	ND	ND	0.91	ND	0.79	ND
FM-1002-S013-01	12/16/2015	0.6	0.7	SOIL	ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S013-01 FD	12/16/2015	0.6	0.7	SOIL	ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S014-01	12/16/2015	0.6	0.7	SOIL	5.7	ND	ND	ND	4.3	ND	1.4	ND
FM-1002-S015-01	12/16/2015	0.6	0.7	SOIL	0.43	ND	ND	ND	0.43	ND	ND	ND
FM-1002-S015-02	12/16/2015	0.8	1	SOIL	0.76	ND	ND	ND	0.54	ND	0.22	ND
FM-1002-S016-01	12/16/2015	0.6	0.7	SOIL	0.052	ND	ND	ND	0.052	ND	ND	ND

Table 1
PCB Remediation at Building 1002
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

					Parameter	Aroclor (Total)	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260
					Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
					RSRS (mg/kg)	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
					NRSRS (mg/kg)	1	1	1	1	1	1	1	1
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix									
FM-1002-S017-01	12/16/2015	0.6	0.7	SOIL		0.14	ND	ND	ND	0.14	ND	ND	ND
FM-1002-S018-01	12/16/2015	0.6	0.7	SOIL		0.057	ND	ND	ND	0.057	ND	ND	ND
FM-1002-S018-01 FD	12/16/2015	0.6	0.7	SOIL		0.18	ND	ND	ND	0.18	ND	ND	ND
FM-1002-S019-01	12/16/2015	0.6	0.7	SOIL		0.064	ND	ND	ND	0.064	ND	ND	ND
FM-1002-S008-01	8/2/2016	2	2.1	SOIL		ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S010-03	8/2/2016	2	2.1	SOIL		ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S010-03 FD	8/2/2016	2	2.1	SOIL		ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S012-01	8/2/2016	2	2.1	SOIL		0.46	ND	ND	ND	0.46	ND	ND	ND
FM-1002-S020-01	8/2/2016	2	2.1	SOIL		ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S021-01	8/2/2016	2	2.1	SOIL		ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S021-01 FD	8/2/2016	2	2.1	SOIL		ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S022-01	8/2/2016	2	2.1	SOIL		ND	ND	ND	ND	ND	ND	ND	ND
FM-1002-S023-01	8/2/2016	2	2.1	SOIL		0.043	ND	ND	ND	0.043	ND	ND	ND

Notes:

mg/kg milligrams per kilogram
New Jersey Department of
Environmental Protection (NJDEP) Soil
Remediation Standards (June 2, 2008)
RSRS Residential criteria.
New Jersey Department of
Environmental Protection (NJDEP) Soil
Remediation Standards (June 2, 2008)
NRSRS Non-Residential criteria.
FD Field Duplicate
ND Not Detected
NA No criterion derived for this constituent.

	Detected result less than RSRS and less than NRSRS criteria shown.
	Detected result exceeds RSRS but less than NRSRS criteria shown.
	Detected result exceeds RSRS and exceeds NRSRS criteria shown.

Table 1
PCB Remediation at Building 1002
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

Analytical Method Parameter Units RSRS (mg/kg) NRSRS (mg/kg)					EPA 8082A Aroclor-1262 mg/kg NA NA	EPA 8082A Aroclor-1268 mg/kg NA NA
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix		
FM 1002-S101	10/13/2015	0	0.04	Concrete	ND	ND
FM 1002-S102	10/13/2015	0.1	0.3	Concrete	ND	ND
FM 1002-S201	10/13/2015	0	0.04	Concrete	ND	ND
FM 1002-S202	10/13/2015	0.1	0.3	Concrete	ND	ND
FM 1002-S301	10/13/2015	0	0.04	Concrete	ND	ND
FM 1002-S302	10/13/2015	0.1	0.3	Concrete	ND	ND
FM 1002-S401	10/13/2015	0	0.04	Concrete	ND	ND
FM 1002-S402	10/13/2015	0.1	0.3	Concrete	ND	ND
FM-1002-C008-01	12/17/2015	0	0.04	Concrete	ND	ND
FM-1002-C008-02	12/17/2015	0.2	0.3	Concrete	ND	ND
FM-1002-C012-01	12/17/2015	0	0.04	Concrete	ND	ND
FM-1002-C012-02	12/17/2015	0.2	0.3	Concrete	ND	ND
FM-1002-S001-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S002-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S003-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S004-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S005-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S005-02	12/16/2015	0.8	1	SOIL	ND	ND
FM-1002-S006-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S007-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S009-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S009-02	12/16/2015	0.8	1	SOIL	ND	ND
FM-1002-S010-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S010-02	12/16/2015	0.8	1	SOIL	ND	ND
FM-1002-S011-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S011-02	12/16/2015	0.8	1	SOIL	ND	ND
FM-1002-S013-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S013-01 FD	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S014-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S015-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S015-02	12/16/2015	0.8	1	SOIL	ND	ND
FM-1002-S016-01	12/16/2015	0.6	0.7	SOIL	ND	ND

Table 1
PCB Remediation at Building 1002
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Parameter	Aroclor-1262	Aroclor-1268
				Units	mg/kg	mg/kg
				RSRS (mg/kg)	NA	NA
				NRSRS (mg/kg)	NA	NA
Matrix						
FM-1002-S017-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S018-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S018-01 FD	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S019-01	12/16/2015	0.6	0.7	SOIL	ND	ND
FM-1002-S008-01	8/2/2016	2	2.1	SOIL	ND	ND
FM-1002-S010-03	8/2/2016	2	2.1	SOIL	ND	ND
FM-1002-S010-03 FD	8/2/2016	2	2.1	SOIL	ND	ND
FM-1002-S012-01	8/2/2016	2	2.1	SOIL	ND	ND
FM-1002-S020-01	8/2/2016	2	2.1	SOIL	ND	ND
FM-1002-S021-01	8/2/2016	2	2.1	SOIL	ND	ND
FM-1002-S021-01 FD	8/2/2016	2	2.1	SOIL	ND	ND
FM-1002-S022-01	8/2/2016	2	2.1	SOIL	ND	ND
FM-1002-S023-01	8/2/2016	2	2.1	SOIL	ND	ND

Notes:

mg/kg milligrams per kilogram
New Jersey Department of
Environmental Protection (NJDEP) Soil
Remediation Standards (June 2, 2008)
RSRS Residential criteria.
New Jersey Department of
Environmental Protection (NJDEP) Soil
Remediation Standards (June 2, 2008)
NRSRS Non-Residential criteria.
FD Field Duplicate
ND Not Detected
NA No criterion derived for this constituent.

	Detected result less than RSRS and less than NRSRS criteria shown.
	Detected result exceeds RSRS but less than NRSRS criteria shown.
	Detected result exceeds RSRS and exceeds NRSRS criteria shown.

Table 2
PCB Remediation at Building 1002
Excavation Confirmation EPH Sample Results
Fort Monmouth, New Jersey

						Analytical Method	NJEPHRev3B
						Parameter	C9-C40
						Units	mg/kg
						RSRS (mg/kg)	NA
						NRSRS (mg/kg)	NA
Location	Sample ID	Collection Date	(ft bgs)	End Depth	LabSampleID	Matrix	
Building 1002	FM-1002-S008-01	8/2/2016	2	2.1	AC92742-001	Soil	ND
Building 1002	FM-1002-S010-03	8/2/2016	2	2.1	AC92742-002	Soil	ND
Building 1002	FM-1002-S010-03 FD	8/2/2016	2	2.1	AC92742-003	Soil	ND
Building 1002	FM-1002-S012-01	8/2/2016	2	2.1	AC92742-004	Soil	ND
Building 1002	FM-1002-S020-01	8/2/2016	2	2.1	AC92742-005	Soil	ND
Building 1002	FM-1002-S021-01	8/2/2016	2	2.1	AC92742-006	Soil	ND
Building 1002	FM-1002-S021-01 FD	8/2/2016	2	2.1	AC92742-007	Soil	ND
Building 1002	FM-1002-S022-01	8/2/2016	2	2.1	AC92742-008	Soil	ND
Building 1002	FM-1002-S023-01	8/2/2016	2	2.1	AC92742-009	Soil	ND

Notes:

mg/kg milligrams per kilogram

RSRS New Jersey Department of Environmental Protection (NJDEP) Soil Remediation Standards (June 2, 2008) Residential criteria.

NRSRS New Jersey Department of Environmental Protection (NJDEP) Soil Remediation Standards (June 2, 2008) Non-Residential criteria.

FD Field Duplicate

ND Not Detected

N/A No criterion derived for this constituent.

Table 3
PCB Remediation at Building 1002
Compliance Averaging Calculation
Fort Monmouth, New Jersey

Analytical Method Parameter Units RSRS (mg/kg) NRSRS (mg/kg)						EPA 8082A Aroclor (Total) mg/kg 0.2 1	EPA 8082A Aroclor-1242 mg/kg 0.2 1
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	LabSampleID	Matrix		
FM-1002-S008-01	8/2/2016	2	2.1	AC92742-001	Soil	0.0135	0.0135
FM-1002-S010-03	8/2/2016	2	2.1	AC92742-002	Soil	0.0135	0.0135
FM-1002-S010-03 FD	8/2/2016	2	2.1	AC92742-003	Soil	0.0135	0.0135
FM-1002-S012-01	8/2/2016	2	2.1	AC92742-004	Soil	0.46	0.46
FM-1002-S020-01	8/2/2016	2	2.1	AC92742-005	Soil	0.0135	0.0135
FM-1002-S021-01	8/2/2016	2	2.1	AC92742-006	Soil	0.0135	0.0135
FM-1002-S021-01 FD	8/2/2016	2	2.1	AC92742-007	Soil	0.0135	0.0135
FM-1002-S022-01	8/2/2016	2	2.1	AC92742-008	Soil	0.0135	0.0135
FM-1002-S023-01	8/2/2016	2	2.1	AC92742-009	Soil	0.043	0.043
Average of Results						0.0664	0.0664

Notes:

mg/kg

milligrams per kilogram

New Jersey Department of Environmental Protection (NJDEP) Soil Remediation Standards

RSRS

(June 2, 2008) Residential criteria.

New Jersey Department of Environmental Protection (NJDEP) Soil Remediation Standards

NRSRS

(June 2, 2008) Non-Residential criteria.

FD

Field Duplicate

Not Detected, 1/2 detection limit used

NA No criterion derived for this constituent.

Detected result less than RSRS and less than NRSRS criteria shown.

Detected result exceeds RSRS but less than NRSRS criteria shown.

Detected result exceeds RSRS and exceeds NRSRS criteria shown.

ATTACHMENT 4

LABORATORY ANALYTICAL REPORTS

Building 1002 Sample Cross-Reference

Area	Field Sample	Collected	Matrix	Lab Sample ID	Lab SDG
Building 1002	FM 1002-S101	10/13/2015	Concrete	AC87535-001	5101303
Building 1002	FM 1002-S102	10/13/2015	Concrete	AC87535-002	5101303
Building 1002	FM 1002-S201	10/13/2015	Concrete	AC87535-003	5101303
Building 1002	FM 1002-S202	10/13/2015	Concrete	AC87535-004	5101303
Building 1002	FM 1002-S301	10/13/2015	Concrete	AC87535-005	5101303
Building 1002	FM 1002-S302	10/13/2015	Concrete	AC87535-006	5101303
Building 1002	FM 1002-S401	10/13/2015	Concrete	AC87535-007	5101303
Building 1002	FM 1002-S402	10/13/2015	Concrete	AC87535-008	5101303
Building 1002	FM-1002-S001-01	12/16/2015	Soil	AC88799-001	5121716
Building 1002	FM-1002-S002-01	12/16/2015	Soil	AC88799-003	5121716
Building 1002	FM-1002-S003-01	12/16/2015	Soil	AC88799-004	5121716
Building 1002	FM-1002-S004-01	12/16/2015	Soil	AC88799-006	5121716
Building 1002	FM-1002-S005-01	12/16/2015	Soil	AC88799-007	5121716
Building 1002	FM-1002-S006-01	12/16/2015	Soil	AC88799-008	5121716
Building 1002	FM-1002-S007-01	12/16/2015	Soil	AC88799-009	5121716
Building 1002	FM-1002-S009-01	12/16/2015	Soil	AC88799-010	5121716
Building 1002	FM-1002-S009-02	12/16/2015	Soil	AC88799-011	5121716
Building 1002	FM-1002-S010-01	12/16/2015	Soil	AC88799-012	5121716
Building 1002	FM-1002-S010-02	12/16/2015	Soil	AC88799-013	5121716
Building 1002	FM-1002-S011-01	12/16/2015	Soil	AC88799-014	5121716
Building 1002	FM-1002-S011-02	12/16/2015	Soil	AC88799-015	5121716
Building 1002	FM-1002-S013-01	12/16/2015	Soil	AC88799-017	5121716
Building 1002	FM-1002-S013-01 FD	12/16/2015	Soil	AC88799-018	5121716
Building 1002	FM-1002-S014-01	12/16/2015	Soil	AC88799-019	5121716
Building 1002	FM-1002-S015-01	12/16/2015	Soil	AC88799-020	5121716
Building 1002	FM-1002-S016-01	12/16/2015	Soil	AC88799-021	5121716
Building 1002	FM-1002-S017-01	12/16/2015	Soil	AC88799-022	5121716
Building 1002	FM-1002-S018-01	12/16/2015	Soil	AC88799-024	5121716
Building 1002	FM-1002-S018-01 FD	12/16/2015	Soil	AC88799-025	5121716
Building 1002	FM-1002-S019-01	12/16/2015	Soil	AC88799-026	5121716
Building 1002	FM-1002-S015-02	12/16/2015	Soil	AC88799-028	5121716
Building 1002	FM-1002-S005-02	12/16/2015	Soil	AC88799-029	5121716
Building 1002	FM-1002-C008-01	12/17/2015	Concrete	AC88850-001	5122105
Building 1002	FM-1002-C008-02	12/17/2015	Concrete	AC88850-002	5122105
Building 1002	FM-1002-C012-01	12/17/2015	Concrete	AC88850-003	5122105
Building 1002	FM-1002-C012-02	12/17/2015	Concrete	AC88850-004	5122105
Building 1002	FM-1002-S014-01	12/17/2015	Soil	AC88850-005	5122105
Building 1002	FM-1002-S008-01	8/2/2016	Soil	AC92742-001	6080302
Building 1002	FM-1002-S010-03	8/2/2016	Soil	AC92742-002	6080302
Building 1002	FM-1002-S010-03 FD	8/2/2016	Soil	AC92742-003	6080302
Building 1002	FM-1002-S012-01	8/2/2016	Soil	AC92742-004	6080302
Building 1002	FM-1002-S020-01	8/2/2016	Soil	AC92742-005	6080302
Building 1002	FM-1002-S021-01	8/2/2016	Soil	AC92742-006	6080302
Building 1002	FM-1002-S021-01 FD	8/2/2016	Soil	AC92742-007	6080302
Building 1002	FM-1002-S022-01	8/2/2016	Soil	AC92742-008	6080302
Building 1002	FM-1002-S023-01	8/2/2016	Soil	AC92742-009	6080302

Hampton-Clarke Report Of Analysis

Client: Tetra Tech Inc.

HC Project #: 5101303

Project: PCB for Bldg 1002

Sample ID: FM 1002-S101

Collection Date: 10/13/2015

Lab#: AC87535-001

Receipt Date: 10/13/2015

Matrix: Concrete

% Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	1	percent		100

PCB 8082

Analyte	DF	Units	RL	Result		
Aroclor (Total)	1	mg/kg	0.025	0.49		
Aroclor-1016	1	mg/kg	0.025	ND		
Aroclor-1221	1	mg/kg	0.025	ND		
Aroclor-1232	1	mg/kg	0.025	ND		
Aroclor-1242	1	mg/kg	0.025	ND		
Aroclor-1248	1	mg/kg	0.025	ND		
Aroclor-1254	1	mg/kg	0.025	0.49		
Aroclor-1260	1	mg/kg	0.025	ND		
Aroclor-1262	1	mg/kg	0.025	ND		
Aroclor-1268	1	mg/kg	0.025	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	91.42	100	30	150	91	
TCMX-Surrogate	88.19	100	30	150	88	
DCB-Surrogate	113.11	100	30	150	113	
DCB-Surrogate	120.15	100	30	150	120	

Sample ID: FM 1002-S102**Lab#: AC87535-002****Matrix: Concrete****Collection Date: 10/13/2015****Receipt Date: 10/13/2015****% Solids SM2540G**

Analyte	DF	Units	RL	Result
%Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result		
Aroclor (Total)	1	mg/kg	0.026	ND		
Aroclor-1016	1	mg/kg	0.026	ND		
Aroclor-1221	1	mg/kg	0.026	ND		
Aroclor-1232	1	mg/kg	0.026	ND		
Aroclor-1242	1	mg/kg	0.026	ND		
Aroclor-1248	1	mg/kg	0.026	ND		
Aroclor-1254	1	mg/kg	0.026	ND		
Aroclor-1260	1	mg/kg	0.026	ND		
Aroclor-1262	1	mg/kg	0.026	ND		
Aroclor-1268	1	mg/kg	0.026	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	101.05	100	30	150	101	
TCMX-Surrogate	100.69	100	30	150	101	
DCB-Surrogate	119.34	100	30	150	119	
DCB-Surrogate	126.10	100	30	150	126	

Sample ID: FM 1002-S201

Lab#: AC87535-003

Matrix: Concrete

Collection Date: 10/13/2015

Receipt Date: 10/13/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	1	percent		99

PCB 8082

Analyte	DF	Units	RL	Result		
Aroclor (Total)	1	mg/kg	0.025	0.75		
Aroclor-1016	1	mg/kg	0.025	ND		
Aroclor-1221	1	mg/kg	0.025	ND		
Aroclor-1232	1	mg/kg	0.025	ND		
Aroclor-1242	1	mg/kg	0.025	ND		
Aroclor-1248	1	mg/kg	0.025	ND		
Aroclor-1254	1	mg/kg	0.025	0.75		
Aroclor-1260	1	mg/kg	0.025	ND		
Aroclor-1262	1	mg/kg	0.025	ND		
Aroclor-1268	1	mg/kg	0.025	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	97.22	100	30	150	97	
TCMX-Surrogate	94.38	100	30	150	94	
DCB-Surrogate	114.95	100	30	150	115	
DCB-Surrogate	120.88	100	30	150	121	

Sample ID: FM 1002-S202**Lab#: AC87535-004****Matrix: Concrete****Collection Date: 10/13/2015****Receipt Date: 10/13/2015****% Solids SM2540G**

Analyte	DF	Units	RL	Result
%Solids	1	percent		99

PCB 8082

Analyte	DF	Units	RL	Result		
Aroclor (Total)	1	mg/kg	0.025	ND		
Aroclor-1016	1	mg/kg	0.025	ND		
Aroclor-1221	1	mg/kg	0.025	ND		
Aroclor-1232	1	mg/kg	0.025	ND		
Aroclor-1242	1	mg/kg	0.025	ND		
Aroclor-1248	1	mg/kg	0.025	ND		
Aroclor-1254	1	mg/kg	0.025	ND		
Aroclor-1260	1	mg/kg	0.025	ND		
Aroclor-1262	1	mg/kg	0.025	ND		
Aroclor-1268	1	mg/kg	0.025	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	100.67	100	30	150	101	
TCMX-Surrogate	101.42	100	30	150	101	
DCB-Surrogate	118.92	100	30	150	119	
DCB-Surrogate	126.28	100	30	150	126	

Sample ID: FM 1002-S301

Lab#: AC87535-005

Matrix: Concrete

Collection Date: 10/13/2015

Receipt Date: 10/13/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	1	percent		100

PCB 8082

Analyte	DF	Units	RL	Result		
Aroclor (Total)	1	mg/kg	0.025	0.1		
Aroclor-1016	1	mg/kg	0.025	ND		
Aroclor-1221	1	mg/kg	0.025	ND		
Aroclor-1232	1	mg/kg	0.025	ND		
Aroclor-1242	1	mg/kg	0.025	ND		
Aroclor-1248	1	mg/kg	0.025	ND		
Aroclor-1254	1	mg/kg	0.025	0.10		
Aroclor-1260	1	mg/kg	0.025	ND		
Aroclor-1262	1	mg/kg	0.025	ND		
Aroclor-1268	1	mg/kg	0.025	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	100.66	100	30	150	101	
TCMX-Surrogate	120.94	100	30	150	121	
DCB-Surrogate	113.17	100	30	150	113	
DCB-Surrogate	109.24	100	30	150	109	

Sample ID: FM 1002-S302

Lab#: AC87535-006

Matrix: Concrete

Collection Date: 10/13/2015

Receipt Date: 10/13/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	1	percent		99

PCB 8082

Analyte	DF	Units	RL	Result		
Aroclor (Total)	1	mg/kg	0.025	ND		
Aroclor-1016	1	mg/kg	0.025	ND		
Aroclor-1221	1	mg/kg	0.025	ND		
Aroclor-1232	1	mg/kg	0.025	ND		
Aroclor-1242	1	mg/kg	0.025	ND		
Aroclor-1248	1	mg/kg	0.025	ND		
Aroclor-1254	1	mg/kg	0.025	ND		
Aroclor-1260	1	mg/kg	0.025	ND		
Aroclor-1262	1	mg/kg	0.025	ND		
Aroclor-1268	1	mg/kg	0.025	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	92.69	100	30	150	93	
TCMX-Surrogate	97.60	100	30	150	98	
DCB-Surrogate	106.85	100	30	150	107	
DCB-Surrogate	115.56	100	30	150	116	

Sample ID: FM 1002-S401

Lab#: AC87535-007

Matrix: Concrete

Collection Date: 10/13/2015

Receipt Date: 10/13/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	1	percent		99

PCB 8082

Analyte	DF	Units	RL	Result		
Aroclor (Total)	1	mg/kg	0.025	0.14		
Aroclor-1016	1	mg/kg	0.025	ND		
Aroclor-1221	1	mg/kg	0.025	ND		
Aroclor-1232	1	mg/kg	0.025	ND		
Aroclor-1242	1	mg/kg	0.025	ND		
Aroclor-1248	1	mg/kg	0.025	ND		
Aroclor-1254	1	mg/kg	0.025	0.14		
Aroclor-1260	1	mg/kg	0.025	ND		
Aroclor-1262	1	mg/kg	0.025	ND		
Aroclor-1268	1	mg/kg	0.025	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	99.68	100	30	150	100	
TCMX-Surrogate	126.63	100	30	150	127	
DCB-Surrogate	112.14	100	30	150	112	
DCB-Surrogate	108.15	100	30	150	108	

Sample ID: FM 1002-S402

Lab#: AC87535-008

Matrix: Concrete

Collection Date: 10/13/2015

Receipt Date: 10/13/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
%Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result		
Aroclor (Total)	1	mg/kg	0.026	ND		
Aroclor-1016	1	mg/kg	0.026	ND		
Aroclor-1221	1	mg/kg	0.026	ND		
Aroclor-1232	1	mg/kg	0.026	ND		
Aroclor-1242	1	mg/kg	0.026	ND		
Aroclor-1248	1	mg/kg	0.026	ND		
Aroclor-1254	1	mg/kg	0.026	ND		
Aroclor-1260	1	mg/kg	0.026	ND		
Aroclor-1262	1	mg/kg	0.026	ND		
Aroclor-1268	1	mg/kg	0.026	ND		
Surrogate	Conc.	Spike	Low Limit	High Limit	Recovery	Flags
TCMX-Surrogate	98.48	100	30	150	98	
TCMX-Surrogate	110.46	100	30	150	110	
DCB-Surrogate	112.49	100	30	150	112	
DCB-Surrogate	120.96	100	30	150	121	

Hampton-Clarke, Inc. (WBE/DBE/SBE) 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004 Ph: 800-426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458 Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054 Ph (Service Center): 856-780-6057 Fax: 856-780-6056			 CHAIN OF CUSTODY RECORD A Women-Owned, Disadvantaged, Small Business Enterprise			Project # (Lab Use Only) 5101303		Page 1 of 1			
3) Reporting Requirements (Please Circle)											
Customer Information 1a) Customer: <u>Tetra Tech</u> Address: <u>1093 Commerce Park Dr. Suite 100</u> <u>Oak Ridge, TN 37830</u> 1b) Email/Cell/Fax/Ph: <u>Roberto.Rolon@tetra-tech.com</u> 1c) Send Invoice to: _____ 1d) Send Report to: _____			Project Information 2a) Project: <u>PCB for Bldg 1002</u> 2b) Project Mgr: <u>Rob Rolon</u> 2c) Project Location (City/State): _____ 2d) Quote/PO # (If Applicable): <u>100-TEM-T33367</u>			Turnaround When Available: 1 Business Day (100%)* 2 Business Days (75%)* 3 Business Days (50%)* 4 Business Days (35%)* 5 Business Days (25%)* 10 Business Days (Stand.) Other: _____		Report Type Data Summary Results + QC (Waste) <u>NJ Reduced</u> NY Reduced PA Reduced Full / Category B Category A Electronic (PDF)		Electronic Deliv. Hazsite/CSV EnviroData <u>Excel - NJ Regulatory</u> Excel - NY Regulatory Excel - PA Regulatory EQulS (specify below): 4-File/EZ/NYS/Reg. 2 or 5 Other: <u>PDF</u>	
* Expedited TAT Not Always Available. Please Check with Lab.											
7) Analysis (specify methods & parameter lists)											
<=== Check If Contingent <===											
8) # of Bottles											
None MeOH En Core NaOH HCl H2SO4 HNO3 Other:											
9) Comments											
>=== Check If Contingent >===											
Matrix Codes DW - Drinking Water S - Soil A - Air GW - Ground Water SL - Sludge WW - Waste Water OL - Oil OT - Other (please specify under item 9, Comments)											
Sample Type											
Composite (C) Grab (G)											
5) Matrix 6) Sample Date Time											
Lab Sample # 4) Customer Sample ID											
-001 FM 1002-S101 OT 10/13/15 9:52 X X -002 FM 1002-S102 10:02 -003 FM 1002-S201 10:10 -004 FM 1002-S202 10:20 -005 FM 1002-S301 10:22 -006 FM 1002-S302 10:22 -007 FM 1002-S401 10:30 -008 FM 1002-S402 10:34											
10) Relinquished by: <u>[Signature]</u> Accepted by: <u>[Signature]</u> Date: <u>10/13/15</u> Time: <u>12:00</u>											
Comments, Notes, Special Requirements, HAZARDS											
Indicate if low-level methods required to meet current groundwater standards (SPLP for soil): ☐ BN or BNA (8270D SIM) ☐ VOC (8260C SIM or 8011) ☐ SPLP (BN, BNA, Metals) Check if applicable: ☐ Project-Specific Reporting Limits ☐ High Contaminant Concentrations ☐ NJ LSRP Project (also check boxes above/right)											
For NNJ LSRP projects, indicate which standards need to be met: ☐ NJDEP GWQS ☐ NJDEP SRS ☐ NJDEP SPLP ☐ Other (specify):											
Additional Notes											
11) Sampler (print name): <u>John Baker</u> Date: <u>10/13/15</u> Please note NUMBERED items. If not completed your analytical work may be delayed. A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.											

HC Report of Analysis

Client: Tetra Tech Inc.**HC Project #:** 5121716**Project:** Concrete Removal for PCB**Sample ID:** FM-1002-S001-01**Collection Date:** 12/16/2015**Lab#:** AC88799-001**Receipt Date:** 12/17/2015**Matrix:** Soil**% Solids SM2540G**

Analyte	DF	Units	RL	Result
% Solids	1	percent		94

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S002-01
Lab#: AC88799-003
Matrix: Soil

Collection Date: 12/16/2015
Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		90

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1002-S003-01

Lab#: AC88799-004

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		93

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.14
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.14
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S004-01

Lab#: AC88799-006

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		94

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S005-01

Lab#: AC88799-007

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	1.05
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.52
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	0.53
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S006-01

Lab#: AC88799-008

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		92

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	1.94
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	1.2
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	0.74
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S007-01

Lab#: AC88799-009

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.63
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.40
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	0.23
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S009-01

Lab#: AC88799-010

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		92

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	1.95
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	1.3
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	0.65
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S009-02

Lab#: AC88799-011

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		95

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	0.22
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	0.22
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	ND
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1002-S010-01

Lab#: AC88799-012

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.77
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.50
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	0.27
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S010-02

Lab#: AC88799-013

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		90

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	1.82
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	1.2
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	0.62
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1002-S011-01

Lab#: AC88799-014

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		94

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.12
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.12
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S011-02

Lab#: AC88799-015

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		92

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	1.7
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.91
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	0.79
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S013-01

Lab#: AC88799-017

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		94

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S013-01 FD

Lab#: AC88799-018

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		94

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S014-01

Lab#: AC88799-019

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	10	mg/kg	0.27	5.7
Aroclor-1016	10	mg/kg	0.27	ND
Aroclor-1221	10	mg/kg	0.27	ND
Aroclor-1232	10	mg/kg	0.27	ND
Aroclor-1242	10	mg/kg	0.27	4.3
Aroclor-1248	10	mg/kg	0.27	ND
Aroclor-1254	10	mg/kg	0.27	1.4
Aroclor-1260	10	mg/kg	0.27	ND
Aroclor-1262	10	mg/kg	0.27	ND
Aroclor-1268	10	mg/kg	0.27	ND

Sample ID: FM-1002-S015-01

Collection Date: 12/16/2015

Lab#: AC88799-020

Receipt Date: 12/17/2015

Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		95

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	0.43
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	0.43
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	ND
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1002-S016-01

Lab#: AC88799-021

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		94

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.052
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.052
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S017-01

Lab#: AC88799-022

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		93

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.14
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.14
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S018-01

Lab#: AC88799-024

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		90

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	0.057
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	0.057
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1002-S018-01 FD

Lab#: AC88799-025

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.18
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.18
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S019-01
Lab#: AC88799-026
Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		93

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.064
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.064
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S015-02

Lab#: AC88799-028

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		94

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.76
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.54
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	0.22
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S005-02

Lab#: AC88799-029

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.24
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.11
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	0.13
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

5121716 0037

Hampton-Clarke, Inc. (WBE/DBE/SBE)175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458

Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054

Ph (Service Center): 856-780-6057 Fax: 856-780-6056



A Women-Owned, Disadvantaged, Small Business Enterprise

**CHAIN OF CUSTODY
RECORD**

Project # (Lab Use Only)

5121716

Page 1 of 3

3) Reporting Requirements (Please Circle)**Turnaround****When Available:**

1 Business Day (100%)*

2 Business Days (75%)*

3 Business Days (50%)*

4 Business Days (35%)*

5 Business Days (25%)*

10 Business Days (Stand.)

Other:

Report Type

Data Summary

Results + QC (Waste)

NJ Reduced

NY Reduced

PA Reduced

Full / Category B

Category A

Electronic (PDF)

Electronic Deliv.

Hazsite/CSV

EnviroData

Excel - NJ Regulatory

Excel - NY Regulatory

Excel - PA Regulatory

EQUIS (specify below):

4-File/EZ/NYS/Reg. 2 or 5

Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information1a) Customer: Tetra TechAddress: 1093 Commerce Park Dr. Ste 100Oak Ridge TN 37830

1b) Email/Cell/Fax/Ph:

1c) Send Invoice to: Mikael.spangberg@tetratech.com1d) Send Report to: Muureen.mcmyler@tetratech.com**Project Information**2a) Project: Concrete Removal for PCBimpacted locations2b) Project Mgr: Mikael Spangberg2c) Project Location (City/State): Fe. MonmouthOceanport N.J.Quote/PO # (If Applicable): 100-TEN-T33367**FOR LAB
USE
ONLY**

Batch #

AC86799

Matrix Codes

DW - Drinking Water S - Soil A - Air
 GW - Ground Water SL - Sludge
 WW - Waste Water OL - Oil
 OT - Other (please specify under item 9, Comments)

Sample
TypeComposite (C)
Grab (G)

PCB 8082

7) Analysis (specify methods & parameter lists)

<=== Check If Contingent <===

8)

of Bottles

None MeOH En Core NaOH HCl H2SO4 HNO3 Other:

9) Comments

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample	
			Date	Time
-001 FM	1002-S001-01	S	12/16/15	1210 hrs
-002 FM	1002-S001-02			1230 hrs
-003 FM	1002-S002-01			1250 hrs
-004 FM	1002-S003-01			1300 hrs
-005 FM	1002-S003-02			1300 hrs
-006 FM	1002-S004-01			1305 hrs
-007 FM	1002-S005-01			1310 hrs
-008 FM	1002-S006-01			1320 hrs
-009 FM	1002-S007-01			1324 hrs
-010 FM	1002-S009-01			1438 hrs

10) Relinquished by:

Accepted by:

Date

Time

Comments, Notes, Special Requirements, HAZARDS

Rob Polon
 Dan W. White

Dan W. White

12/17/15 0945 hrs
 12/17/15 14:00

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

☐ BN or BNA (8270D SIM)
☐ VOC (8260C SIM or 8011)
☐ SPLP (BN, BNA, Metals)

Check if applicable:

☐ Project-Specific Reporting Limits
☐ High Contaminant Concentrations
☐ NJ LSRP Project (also check boxes above/right)

For NNJ LSRP projects, indicate which standards need to be met:

☐ NJDEP GWQS
☐ NJDEP SRS
☐ NJDEP SPLP
☐ Other (specify):

Additional Notes

Cooler Temperature

28

11) Sampler (print name):

Date:

Please note NUMBERED items. If not completed your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

5121716 0038

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004

Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458

Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054

Ph (Service Center): 856-780-6057 Fax: 856-780-6056



WBE/DBE/SBE 800-426-9992

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**CHAIN OF CUSTODY
RECORD**

Project # (Lab Use Only)

5121716

Page 2 of 3

3) Reporting Requirements (Please Circle)**Turnaround****When Available:**

1 Business Day (100%)*

2 Business Days (75%)*

3 Business Days (50%)*

4 Business Days (35%)*

5 Business Days (25%)*

10 Business Days (Stand.)

Other: _____

Report Type

Data Summary

Results + QC (Waste)

NJ Reduced

NY Reduced

PA Reduced

Full / Category B

Category A

Electronic (PDF)

Electronic Deliv.

Hazsite/CSV

EnviroData

Excel - NJ Regulatory

Excel - NY Regulatory

Excel - PA Regulatory

EQuIS (specify below):

4-File/EZ/NYS/Reg. 2 or 5

Other: _____

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer:

Tebm Tech

Address:

1093 Commerce Park Dr. Ste 100

Oak Ridge TN 37830

1b) Email/Cell/Fax/Ph:

1c) Send Invoice to:

Mikael.spangberg@tebmtech.com

1d) Send Report to:

Maureen.mcmyler@tebmtech.com

Project Information

2a) Project:

Concrete Removal for PCB

Impacted Locations

2b) Project Mgr:

Mikael Spangberg

2c) Project Location (City/State):

Ft. Monmouth

Oceanport N.J.

2d) Quote/PO # (If Applicable):

100-TEN-T33867

**FOR LAB
USE
ONLY**

Batch #

AC88799

Matrix Codes

DW - Drinking Water S - Soil A - Air

GW - Ground Water SL - Sludge

WW - Waste Water OL - Oil

OT - Other (please specify under item 9, Comments)

**Sample
Type**

Composite (C)

Grab (G)

7) Analysis (specify methods & parameter lists)

==== Check If Contingent =====

<==== Check If Contingent <=====

Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample		Composite (C)	Grab (G)											8) # of Bottles							Other:	9) Comments
			Date	Time													None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3		
-011	FM-1002-S009-02	S	12/16/15	1441 hrs	✓	✓											✓								Hold
-012	FM-1002-S010-01			1445 hrs	✓	✓																			
-013	FM-1002-S010-02			1450 hrs	✓	✓																			Hold
-014	FM-1002-S011-01			1508 hrs	✓	✓																			
-015	FM-1002-S013-02		1512	1519 hrs	✓	✓																			Hold
-016	FM-1002-S011-02 FD			1512 hrs	✓	✓																			Hold
-017	FM-1002-S013-01			1519 hrs	✓	✓																			
-018	FM-1002-S013-01 FD			1519 hrs	✓	✓																			
-019	FM-1002-S014-01			1523 hrs	✓	✓																			
-020	FM-1002-S015-01			1524 hrs	✓	✓																			

10) Relinquished by:

Rob Rolon

Accepted by:

Dan W. Williams

Date

12/17/15

Time

0945 hrs

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

- ☐ BN or BNA (8270D SIM)
☐ VOC (8260C SIM or 8011)
☐ SPLP (BN, BNA, Metals)

Check if applicable:

- ☐ Project-Specific Reporting Limits
☐ High Contaminant Concentrations
☐ NJ LSRP Project (also check boxes above/right)

For NNJ LSRP projects, indicate which standards need to be met:

- ☐ NJDEP GWQS
☐ NJDEP SRS
☐ NJDEP SPLP
☐ Other (specify):

Additional Notes

Cooler Temperature

2.8

11) Sampler (print name):

Date:

Please note NUMBERED items. If not completed your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

5121716 0039

Hampton-Clarke, Inc. (WBE/DBE/SBE) 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004 Ph: 800-426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458 Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054 Ph (Service Center): 856-780-6057 Fax: 856-780-6056			 CHAIN OF CUSTODY RECORD A Women-Owned, Disadvantaged, Small Business Enterprise			Project # (Lab Use Only) 5121716		Page 3 of 3																																																																																																																																																																											
NELAC/NJ #07071 PA #68-00463 NY #11408 CT #PH-0671 KY #90124 DE HSCA Approved																																																																																																																																																																																			
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9) Comments																																																																																																																																																																																			
<table border="1"><thead><tr><th>Lab Sample #</th><th>4) Customer Sample ID</th><th>5) Matrix</th><th>6) Sample Date</th><th>6) Sample Time</th><th>Sample Type</th><th>Composite (C)</th><th>Grab (G)</th><th>None</th><th>MeOH</th><th>En Core</th><th>NaOH</th><th>HCl</th><th>H2SO4</th><th>HNO3</th><th>Other:</th><th>9) Comments</th></tr></thead><tbody><tr><td>-021</td><td>FM-1002-S016-01</td><td>S</td><td>12/16/15</td><td>1534 hrs</td><td>PCB 8082</td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>-022</td><td>FM-1002-S017-01</td><td></td><td></td><td>1537 hrs</td><td></td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>-023</td><td>FM-1002-S017-02</td><td></td><td></td><td>1540 hrs</td><td></td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Hold</td></tr><tr><td>-024</td><td>FM-1002-S018-01</td><td></td><td></td><td>1546 hrs</td><td></td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>-025</td><td>FM-1002-S018-01 FD</td><td></td><td></td><td>1546 hrs</td><td></td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>-026</td><td>FM-1002-S019-01</td><td></td><td></td><td>1549 hrs</td><td></td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>-027</td><td>FM-1002-S019-02</td><td></td><td></td><td>1551 hrs</td><td></td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Hold</td></tr><tr><td>-028</td><td>FM-1002-S015-02</td><td></td><td></td><td>1531 hrs</td><td></td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Hold</td></tr><tr><td>-029</td><td>FM-1002-S005-02</td><td></td><td></td><td>1314 hrs</td><td></td><td>✓</td><td>✓</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Hold</td></tr></tbody></table>										Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type	Composite (C)	Grab (G)	None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments	-021	FM-1002-S016-01	S	12/16/15	1534 hrs	PCB 8082	✓	✓										-022	FM-1002-S017-01			1537 hrs		✓	✓										-023	FM-1002-S017-02			1540 hrs		✓	✓									Hold	-024	FM-1002-S018-01			1546 hrs		✓	✓										-025	FM-1002-S018-01 FD			1546 hrs		✓	✓										-026	FM-1002-S019-01			1549 hrs		✓	✓										-027	FM-1002-S019-02			1551 hrs		✓	✓									Hold	-028	FM-1002-S015-02			1531 hrs		✓	✓									Hold	-029	FM-1002-S005-02			1314 hrs		✓	✓									Hold
Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample Date	6) Sample Time	Sample Type	Composite (C)	Grab (G)	None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:	9) Comments																																																																																																																																																																			
-021	FM-1002-S016-01	S	12/16/15	1534 hrs	PCB 8082	✓	✓																																																																																																																																																																												
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-024	FM-1002-S018-01			1546 hrs		✓	✓																																																																																																																																																																												
-025	FM-1002-S018-01 FD			1546 hrs		✓	✓																																																																																																																																																																												
-026	FM-1002-S019-01			1549 hrs		✓	✓																																																																																																																																																																												
-027	FM-1002-S019-02			1551 hrs		✓	✓									Hold																																																																																																																																																																			
-028	FM-1002-S015-02			1531 hrs		✓	✓									Hold																																																																																																																																																																			
-029	FM-1002-S005-02			1314 hrs		✓	✓									Hold																																																																																																																																																																			
10) Relinquished by: Rob Rolan Dana W...										Accepted by: Dana W...										Date 12/17/15 Time 0945 hrs 12/17/15 11:00																																																																																																																																																															
Additional Notes										Comments, Notes, Special Requirements, HAZARDS Indicate if low-level methods required to meet current groundwater standards (SPLP for soil): ☐ BN or BNA (8270D SIM) ☐ VOC (8260C SIM or 8011) ☐ SPLP (BN, BNA, Metals) Check if applicable: ☐ Project-Specific Reporting Limits ☐ High Contaminant Concentrations ☐ NJ LSRP Project (also check boxes above/right) 11) Sampler (print name): Please note NUMBERED items. If not completed your analytical work may be delayed. A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.										For NNJ LSRP projects, indicate which standards need to be met: ☐ NJDEP GWQS ☐ NJDEP SRS ☐ NJDEP SPLP ☐ Other (specify): Cooler Temperature 2.8																																																																																																																																																															

HC Report of Analysis

Client: Tetra Tech Inc.**HC Project #:** 5122105**Project:** Concrete Removal for PCB**Sample ID:** FM-1002-C008-01**Collection Date:** 12/17/2015**Lab#:** AC88850-001**Receipt Date:** 12/21/2015**Matrix:** Concrete**% Solids SM2540G**

Analyte	DF	Units	RL	Result
% Solids	1	percent		97

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	0.455
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	0.085
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	0.37
Aroclor-1260	1	mg/kg	0.026	ND
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1002-C008-02

Lab#: AC88850-002

Matrix: Concrete

Collection Date: 12/17/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	ND
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	ND
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1002-C012-01

Lab#: AC88850-003

Matrix: Concrete

Collection Date: 12/17/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		97

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	0.74
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	0.15
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	0.59
Aroclor-1260	1	mg/kg	0.026	ND
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1002-C012-02

Lab#: AC88850-004

Matrix: Concrete

Collection Date: 12/17/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		97

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	0.055
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	0.055
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	ND
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1002-S014-01

Lab#: AC88850-005

Matrix: Soil

Collection Date: 12/17/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		94

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	1.99
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	1.3
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	0.69
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

HC Report of Analysis

Client: Tetra Tech Inc.

HC Project #: 6080302

Project: Fort Monmouth Bldg 12002

Sample ID: FM-1002-S008-01

Collection Date: 8/2/2016

Lab#: AC92742-001

Receipt Date: 8/3/2016

Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		93

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	65	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S010-03

Lab#: AC92742-002

Matrix: Soil

Collection Date: 8/2/2016

Receipt Date: 8/3/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		92

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	65	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S010-03 FD

Lab#: AC92742-003

Matrix: Soil

Collection Date: 8/2/2016

Receipt Date: 8/3/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		92

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	65	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S012-01

Lab#: AC92742-004

Matrix: Soil

Collection Date: 8/2/2016

Receipt Date: 8/3/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	66	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.46
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.46
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S020-01

Lab#: AC92742-005

Matrix: Soil

Collection Date: 8/2/2016

Receipt Date: 8/3/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		92

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	65	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S021-01

Lab#: AC92742-006

Matrix: Soil

Collection Date: 8/2/2016

Receipt Date: 8/3/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	66	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S021-01 FD

Lab#: AC92742-007

Matrix: Soil

Collection Date: 8/2/2016

Receipt Date: 8/3/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		91

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	66	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S022-01

Lab#: AC92742-008

Matrix: Soil

Collection Date: 8/2/2016

Receipt Date: 8/3/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		92

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	65	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S023-01

Lab#: AC92742-009

Matrix: Soil

Collection Date: 8/2/2016

Receipt Date: 8/3/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		93

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	65	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.043
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.043
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

6080302

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004

Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458

Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054

Ph (Service Center): 856-780-6057 Fax: 856-780-6056



WBE/DBE/SBE 800-426-9992

A Women-Owned, Disadvantaged, Small Business Enterprise

CHAIN OF CUSTODY RECORD

Project # (Lab Use Only)

6080302

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround

When Available:

1 Business Day (100%)*

2 Business Days (75%)*

3 Business Days (50%)*

4 Business Days (35%)*

5 Business Days (25%)*

10 Business Days (Stand.)

Other:

Report Type

Data Summary

Results + QC (Waste)

NJ Reduced

NY Reduced

PA Reduced

Full / Category B

Category A

Electronic (PDF)

Electronic Deliv.

Hazsite/CSV

EnviroData

Excel - NJ Regulatory

Excel - NY Regulatory

Excel - PA Regulatory

EQuIS (specify below):

4-File/EZ/NYS/Reg. 2 or 5

Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer:

Tetra Tech

Address:

1093 Commerce Park Dr. Ste 100

Oak Ridge TN 37830

1b) Email/Cell/Fax/Ph:

Rob Rabin 407-448-9553

1c) Send Invoice to:

Maureen McMyler 856-220-4762

1d) Send Report to:

Maureen McMyler

Project Information

2a) Project:

FE Monmouth

Bldg. 1002

2b) Project Mgr:

Mikael Springberg

2c) Project Location (City/State):

FE Monmouth

NJ

2d) Quote/PO # (If Applicable):

4817

FOR LAB
USE
ONLY
↓

Batch #

AC92742

Matrix Codes

DW - Drinking Water S - Soil A - Air

GW - Ground Water SL - Sludge

WW - Waste Water OL - Oil

OT - Other (please specify under item 9, Comments)

Sample
Type

Composite (C)

Grab (G)

==== Check If Contingent ====

6) Sample

Date Time

5) Matrix

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

S

Analysis (specify methods & parameter lists)

<==== Check If Contingent <====

8)

of Bottles

None MeOH En Core NaOH HCl H2SO4 HNO3 Other:

9) Comments

10) Relinquished by:

Accepted by:

Date

Time

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

☐ BN or BNA (8270D SIM)
☐ VOC (8260C SIM or 8011)
☐ SPLP (BN, BNA, Metals)

Check if applicable:

☐ Project-Specific Reporting Limits
☐ High Contaminant Concentrations
☐ NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:

☐ NJDEP GWQS
☐ NJDEP SRS
☐ NJDEP SPLP
☐ Other (specify):

Cooler Temperature

2 + 2

11) Sampler (print name):

Date:

Please note NUMBERED items. If not completed your analytical work may be delayed.

A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

Additional Notes

ATTACHMENT 5

**NEW JERSEY REQUIRMENTS FOR SOIL COMPLIANCE AVERAGING
N.J.A.C. 7:26E-4.9(c)3i**

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Compliance Averaging

By: Brian J. Sogorka,
[Bureau of Environmental Evaluation & Risk Assessment](#)

The average contaminant concentration in an area of concern may be used to determine compliance with remediation standards or the [Soil Cleanup Criteria](#) rather than the contaminant concentration of individual samples. This approach is called "compliance averaging." An article describing the department's policies on compliance averaging appeared in the November 1993 *Site Remediation News*. The department's policy on the use of the multiplication factors has been modified (see item [4d below](#)) and new policies have been added (see [items 5, 6 and 7 below](#)). The department's current requirements for using compliance averaging are described below.

To minimize the impact of the new policy described in 4d below on sites currently undergoing remediation, this policy will not be effective until July 1, 1995, except as follows. Remedial action workplans approved before the effective date need not comply with the new guidance, subject to case by case review by the department. However, remediation, including sampling or cleanup activities, conducted prior to the effective date of the guidance without remedial action workplan approval will be evaluated by the department for substantial compliance with the new guidance. Any questions regarding implementation of the department's guidance should be directed to your Case Manager.

1. Compliance averaging can only be used after a remedial investigation has been completed which fully delineates the nature and extent of the contamination present. See [N.J.A.C. 7:26E, the Technical Requirements for Site Remediation](#) (Technical Rules), Subchapter 4 for the requirements of a remedial investigation.

It is not appropriate to use compliance averaging based upon the information obtained in a site investigation. The objective of a site investigation is to determine if contamination is present above any applicable remediation standards or Soil Cleanup Criteria. Sample locations used during the site investigation must be biased to the suspected location of greatest contamination and therefore, results cannot be averaged. If such biased samples are contaminated above any applicable remediation standards or Soil Cleanup Criteria, then contaminant delineation in a remedial investigation is required.

2. The Technical Rules, at N.J.A.C. 7:26E-4.9(c)3i, specify certain requirements for averaging data:
 - a. The arithmetic mean must be used to calculate the average contaminant concentration;
 - b. One-half of the method detection limit for non-detectable results from samples which have not been diluted must be used to calculate the average contaminant concentration. Any estimated values (also known as "J" values) must be used "as reported" to calculate the average contaminant concentration;
 - c. Non-detectable results for samples which have been diluted may not be used to calculate the average contaminant concentration;
 - d. The requirement at 4.9(c)3i(5) excludes from compliance averaging any samples from a "clean" buffer zone identified around a contaminated area. A suspected area of concern is often reduced or expanded based on remedial investigation delineation sampling and only samples which lie within the modified area of concern (excluding clean zones) can be utilized for compliance averaging (see [Figure 1](#));
 - e. The requirement at 4.9(c)3i(5) also specifies that samples from different depth intervals may not be averaged together to determine compliance. However, under certain circumstances it may be appropriate to average data for two or more vertical sample increments. For example, if only the "Impact to Ground Water" Soil Cleanup Criteria are driving the cleanup, it may be appropriate, based on site specific conditions, to average data for two or more vertical sample increments. If a "direct contact" Soil Cleanup Criterion is driving the cleanup but the soil is unlikely to be disturbed (for example, beneath a building or greater than ten feet deep), it may also be appropriate to average data for two or more vertical sample increments. Such requests require a variance decision pursuant to N.J.A.C. 7:26E-1.6(d).

3. Samples exceeding the 10,000 ppm total organic limit or the 1,000 ppm total volatile organic limit cannot be averaged for compliance because these samples represent "gross" contaminant levels and, therefore, no samples may exceed these limits.
4. There is a limit on the maximum allowable concentration for individual samples when compliance averaging through the application of a multiplication factor which is applied to the Soil Cleanup Criterion or health based criterion, whichever is lower (see item [4d below](#) for more details). The multiplication factors vary depending on the specific Soil Cleanup Criterion. No single sample can exceed the applicable Soil Cleanup Criteria for a specific contaminant as follows:
 - a. If the Soil Cleanup Criterion is 10 ppm or less, then individual soil samples cannot exceed the Soil Cleanup Criterion by more than a factor of 10 or 50 ppm (ceiling level), whichever is less;
 - b. If the applicable Soil Cleanup Criterion is greater than 10 ppm but less than or equal to 100 ppm, then individual soil samples cannot exceed the Soil Cleanup Criterion by more than a factor of 5 or 200 ppm (ceiling level), whichever is less;
 - c. If the applicable Soil Cleanup Criterion is greater than 100 ppm, then individual soil samples cannot exceed the Soil Cleanup Criterion by more than a factor of 2.

- d. The department's guidance, as described in the November 1993 *Site Remediation News*, was to apply the multiplication factors to the Soil Cleanup Criteria. However, the department's current guidance is to apply the factors to health based criteria, not Soil Cleanup Criteria which are based on natural background or practical quantitation levels (PQLs). The department believes that applying the multiplication factors to health based criteria is more consistent with the intent of the factors, that is, to limit exposure to high concentrations of the contaminant. This change in guidance has the following implications:

1) Elimination of the option to average for *arsenic and thallium*:

The 20 ppm Soil Cleanup Criterion for arsenic is based on natural background which is already 50 times higher than the health based number for arsenic (0.4 ppm). Therefore, allowing individual samples to exceed the Soil Cleanup Criterion would not be appropriate unless a site specific remediation standard was developed.

Exceedances of the 20 ppm arsenic criterion due to natural background conditions would not require cleanup but would require a site specific remediation standard to document that local natural background was greater than 20 ppm.

The 2 ppm Soil Cleanup Criterion for thallium is based on a PQL but the health based number is zero. Therefore, averaging is not appropriate. Exceedances of the 2 ppm thallium criterion would require a site specific remediation standard.

2) More stringent compliance criteria for *benzo(a)pyrene and dibenz(a,h)anthracene*:

The 0.66 ppm Soil Cleanup Criteria for these compounds are based on a PQL which is approximately 7 times higher than the health based number (0.09 ppm). Applying the 10x factor to 0.09 ppm means that, when averaging is applied, no sample may exceed 0.9 ppm.

3) More stringent compliance criteria for *beryllium*:

The 1 ppm Soil Cleanup Criterion for beryllium is based on a PQL which is 5 times higher than the health based number (0.2 ppm). Applying the 10x factor to 0.2 ppm means that, when averaging is applied, no sample may exceed 2 ppm.

4) Other contaminants affected by this policy are *bis(2-chloroethyl)ether, hexachlorobenzene, and N-nitrosodi-n-propylamine*. As these contaminants are not commonly encountered in site remediation, the department should be contacted on a case specific basis to address any compliance averaging issues.

5. The Soil Cleanup Criteria for PCBs are based on the total PCB concentration of the sample. As there is no standard laboratory protocol for reporting and averaging total PCBs, the department uses the following approach:

To calculate total PCBs for an individual sample, add together any "hits" for the individual Arochlors. If there are no "hits", report the highest method detection limit as the total PCB method detection limit. When averaging total PCB data for two or more samples, first calculate total PCBs for each sample as above, then apply the applicable averaging requirements described in this article.

6. The department has found that strict adherence to the Soil Cleanup Criteria is sometimes overly conservative for small areas of moderately contaminated soil. In general, the smaller the area of contamination, the less likely it is that there will be significant exposure to the contaminants. In addition, if the contamination is at depth in the soil column (two feet below ground surface or deeper), the potential for exposure is even further reduced. It is usually not possible to use compliance averaging for such isolated areas of contamination because it is not permissible to average clean zone samples with the contaminated area samples.

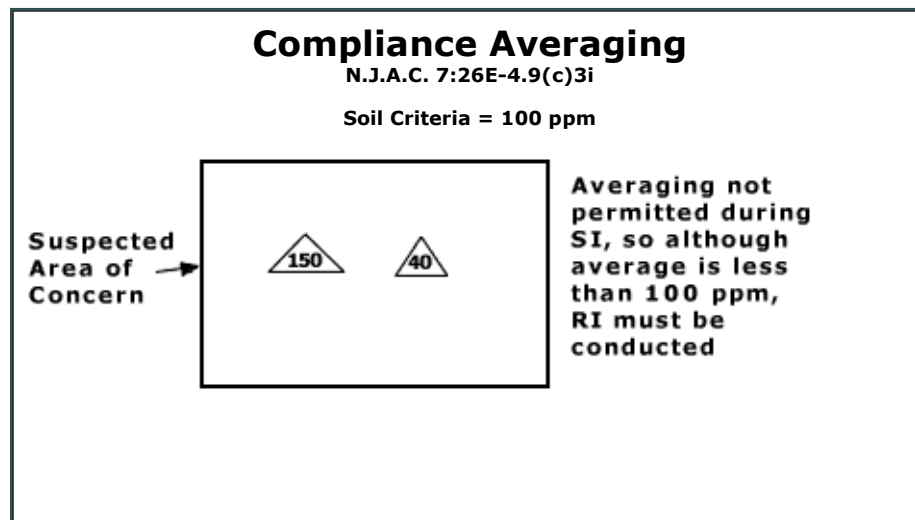
Therefore, the following approach may be used if, after completion of a remedial investigation, contaminated soils at an area of concern are not in compliance with a Soil Cleanup Criterion after averaging, but the data indicate that there is only a de minimis amount of contaminated soil. The department will consider "no further action" proposals without environmental restrictions if all the following criteria are met:

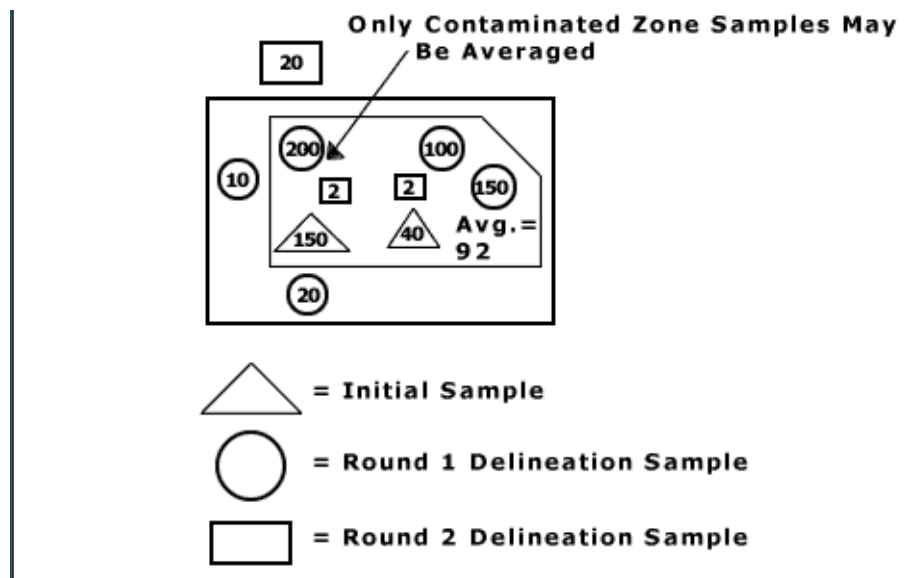
- a. Contaminant levels are "moderate"; that is, below the multiplication factor limits or ceiling levels, and below the 10,000 ppm total organic limit and the 1,000 ppm total volatile organic limit;
- b. Since the multiplication factor limits are applied to health-based numbers, the restrictions applicable to averaging also apply to de minimis exemptions. Therefore, the de minimis exemption cannot be applied to arsenic or thallium contamination;
- c. Sample data document that there is only a de minimis amount of contaminated soil remaining in the area of concern. In general, a de minimis area of contaminated soil is considered to be a six inch layer of soil over a ten foot radius. In addition, only contaminated soil at two or more feet below ground surface will be considered for this exemption. Considering the depth and the limited areal extent of the contaminants, direct soil exposure is expected to be relatively infrequent.

It may sometimes be acceptable to apply the de minimis exemption to larger areas as well, but this should be reviewed on a site specific basis. Exception decisions should consider such factors as contaminant concentration, the volume of contaminated soil, and the size of the area where exposure to the contaminants may occur. For example, assume that the Soil Cleanup Criterion is 5 ppm, the isolated "hit" is 6 ppm, and the "clean zone" is 20 feet away. In this situation, although the de minimis criteria above have not been met, the de minimis exemption might still be appropriate because the contamination is present at a concentration only slightly above the Soil Cleanup Criterion.

- d. An evaluation of the contaminant mass, persistence and location indicates limited potential for significant human health or environmental impacts, including ground water impacts; and
 - e. There can be only one de minimis exemption per area of concern.
7. Sample results for contaminated soil remaining in an area of concern may be averaged after remedial actions when soils have been excavated or otherwise permanently remediated if the following conditions are met:
- a. Data from clean fill used to replace contaminated soils in the area of concern cannot be included to calculate the average;
 - b. Sidewall sample data from excavated areas may be used in the average if sample data from the same six inch depth increment are averaged; and
 - c. Post remediation bottom sample data may be averaged with other sample data from the same six-inch depth increment.

Figure 1





To report an environmental incident impacting NJ, call the Toll-Free 24-Hour Hotline
1-877-WARNDEP / 1-877-927-6337

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Last Updated: August 15, 2013

ATTACHMENT 6
WASTE DISPOSAL DOCUMENTATION

**FREEHOLD CARTAGE INC.**P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924**BILL OF LADING**
FCI EPA ID NO. NJD054126164**S 595163**350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fax: (302) 658-6229175 Bartow Mun. Airport
Bartow, FL 33830
Phone: (863) 533-4599
Fax: (863) 533-16135533 Dunham Road
Maple Heights, OH 44137
Phone: (330) 835-3473
Fax: (330) 835-3732108 Monahan Avenue
Dunmore, PA 18512
Phone: (570) 342-7232
Fax: (570) 342-7367132 Myrtle Beach Hwy.
Sumter, SC 29153
Phone: (803) 773-2611
Fax: (803) 773-2942

SHIPPER NAME/ADDRESS <i>Removal</i>		PHONE		APPOINTMENT TIME 15:00	
		(AREA CODE)			
TRACTOR 19C		TRAILER 4105			
FCI REP. LOADING (PRINT) <i>Removal</i>	PROCEDURE <i>Removal</i>	EQUIP. SPOTTED —	EQUIP. REMOVED <i>1970</i>	TIME AT SHIPPER 12:45	(MILITARY TIME ONLY)
				ARRIVAL TIME	DEPARTURE TIME
COMMENTS OR DELAYS AT SHIPPER <i>Subcontract Lead not coming till 2nd when I can not do it</i>				EQUIPMENT USED —	

BROKER:		MANIFEST / DOCUMENT NO.
PO #:	WO #:	

(X) HM	PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
1	<i>Selenium dust</i>	<i>9</i>	<i>34132</i>	<i>III</i>	<i>1</i>	<i>cm</i>	<i>20</i>	<i>g</i>		
2										
3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER.

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE <i>Bill McNichols</i>	SHIPPER'S SIGNATURE <i>[Signature]</i> X	DATE LOADED <i>07/02/16</i>
I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.		MO. DAY YR.

CONSIGNEE NAME/ADDRESS <i>Bill McNichols MI</i>		PHONE		APPOINTMENT TIME :	
		(AREA CODE)			
TRACTOR		TRAILER			
FCI REP. UNLOADING (PRINT)	PROCEDURE <i>Dump</i>	EQUIP. SPOTTED	EQUIP. REMOVED	TIME AT CONSIGNEE	(MILITARY TIME ONLY)
				ARRIVAL TIME	DEPARTURE TIME
COMMENTS OR DELAYS AT CONSIGNEE				EQUIPMENT USED	

PLEASE PRINT NAME/TITLE	CONSIGNEE SIGNATURE X	DATE UNLOADED / /
		MO. DAY YR.

AR H-0257	MD HWH-167	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	2001-OPV-2335	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203	ME ME-HWT-47	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
DE-SW-203	ME-WOT-47	NJ S-2265	PA PA-AH-0067	
IL UPW-0190713-OH	MI UPW-0190713-OH	15939	QUEBEC, CANADA QC-6ML-047	
MA MA-294	MN UPW-0190713-OH	NY NJ-113	RI RI-535	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF
Gold - Retained by Generator**S 595163**

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NJ0210020507	2. Page 1 of 1	3. Emergency Response Phone 732-613-1000	4. Manifest Tracking Number 001871775 FLE	
5. Generator's Name and Mailing Address US Dept of Army Fort Monmouth - Main Post P.O. Box 140 Oceanport, NJ 07757			Generator's Site Address (if different than mailing address) Main Post Fort Monmouth, NJ 07703			
6. Transporter 1 Company Name Frederick Carriage, Inc.			U.S. EPA ID Number NR0054174104			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Wayne Disposal, Inc. 5000 Landon 49350 N. 104 Service Drive Belleville, MI 48111			U.S. EPA ID Number MI004800633			
Facility's Phone: 800-502-5489						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	X	1. RC, UN-3432, Polychlorinated Biphenyls, Solid, Waste, Class 2 PG II EPCW 171	XXI	C64		7
		2.				
		3.				
		4.				
14. Special Handling Instructions and Additional Information 115018SWCH PCB Soil & Concrete AWI PO. # 14485-MP						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name MATHEN CRATER		Signature 		Month Day Year 02 02 16		
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____					
	17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name _____ Signature _____ Month Day Year _____ Transporter 2 Printed/Typed Name _____ Signature _____ Month Day Year _____					
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
	Manifest Reference Number: _____					
	18b. Alternate Facility (or Generator) _____ U.S. EPA ID Number _____ Facility's Phone: _____					
18c. Signature of Alternate Facility (or Generator) _____ Month Day Year _____						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name _____		Signature _____		Month Day Year _____		



P.O. Box 128
Sayreville, N.J. 08871

TELEPHONE 732-613-1660
FAX 732-613-1536

Sold To:

Tetra Tech (TN)
1093 Commerce Park Drive, Suite 100
Oak Ridge, TN 37830
Attn: Mikael Spangberg

Invoice No.: 22591
Date: 08/31/2016
P.O. #: 1118785
Job #: 14485
Terms: Net 45
SM: Timothy J. Roper
Est: EG

Date	Description	Amount
	Project Location: Fort Monmouth, NJ	
	Tetra Tech Prime Contact: W912DY-10-D-0015	
	Transportation and disposal invoice:	
	Transportation of five (5) roll-offs to disposal facility @ \$4,625.00/load	23,125.00
	Loading/unloading demurrage - four (4) hours @ \$105.00/hr.	420.00
	Container rental - 56 days @ \$15.00/day	840.00
	Disposal of 103.68 tons of PCB impacted soil @ \$145.00/ton	15,033.60
	Transportation of drums of PCB impacted water to facility	625.00
	Disposal of sixteen (16) drums of PCB impacted water @ \$925.00/drum	14,800.00
	Subtotal	54,843.60
TOTAL AMOUNT DUE		\$54,843.60
1 ½% Monthly Finance Charge on All Past Due Accounts		

◆ SITE REMEDIATION
◆ LEAD ABATEMENT
◆ WASTE MANAGEMENT/LAB PACKS
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**FREEHOLD CARTAGE INC.**P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924**BILL OF LADING**
FCI EPA ID NO. NJD054126164**S 590773**350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fax: (302) 658-6229175 Bartow Mun. Airport
Bartow, FL 33830
Phone: (863) 533-4599
Fax: (863) 533-16135533 Dynham Road
Maple Heights, OH 44137
Phone: (330) 835-3473
Fax: (330) 835-3732108 Monahan Avenue
Dunmore, PA 18512
Phone: (570) 342-7232
Fax: (570) 342-7367132 Myrtle Beach Hwy
Sumter, SC 29153
Phone: (803) 773-2611
Fax: (803) 773-2942

SHIPPER NAME/ADDRESS US Army Ft. Monmouth Occupant WS		PHONE (AREA CODE) TRACTOR 800		TRAILER 24445		APPOINTMENT TIME :	
FCI REP. LOADING (PRINT) D. W. H.	PROCEDURE Transfer	EQUIP. SPOTTED	EQUIP. REMOVED 0714		TIME AT SHIPPER 14:30		(MILITARY TIME ONLY) 15:30
COMMENTS OR DELAYS AT SHIPPER					ARRIVAL TIME 14:30		
					DEPARTURE TIME 15:30		
					EQUIPMENT USED		

BROKER:		MANIFEST / DOCUMENT NO: 01185257057K	
PO #:	WO #:	1117613	

(X) HM	PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN NO	PACKING GROUP	NO. CONT.	CONT TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
1	See Manifest	-	-	-	1	CM	30	Yds	-	5
2										
3										

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SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE William R Colvin	SHIPPER'S SIGNATURE William R Colvin for US Army I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.	DATE LOADED 8/13/16 MO. DAY YR.
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CONSIGNEE NAME/ADDRESS White Supersal Bellefonte, PA		PHONE (AREA CODE) TRACTOR 595		TRAILER 4445		APPOINTMENT TIME :	
FCI REP. UNLOADING (PRINT) D. W. H.	PROCEDURE Dump	EQUIP. SPOTTED	EQUIP. REMOVED 0714		TIME AT CONSIGNEE 16:30		(MILITARY TIME ONLY) 18:15
COMMENTS OR DELAYS AT CONSIGNEE					ARRIVAL TIME 16:30		
					DEPARTURE TIME 18:15		
					EQUIPMENT USED		

PLEASE PRINT NAME/TITLE	CONSIGNEE SIGNATURE X [Signature]	DATE UNLOADED 8/14/16 MO. DAY YR.
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AR H-0257	MD HWH-167	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	2001-OPV-2335	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203	ME ME-HWT-47	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
DE-SW-203	ME-WOT-47	NJ S-2265	PA PA-AH-0067	
IL UPW-0190713-OH	MI UPW-0190713-OH	15939	QUEBEC, CANADA QC-6ML-047	
MA MA-294	MN UPW-0190713-OH	NY NJ-113	RI RI-535	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF
Gold - Retained by Generator**S 590773**

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NJ321002F567	2. Page 1 of 2	3. Emergency Response Phone NJ 813 1234	4. Manifest Tracking Number 011852570 JJK						
		5. Generator's Name and Mailing Address US Dept of Army-Fort Monmouth - Main Post P.O. Box 148 Oceanport, NJ 07757 Generator's Phone: _____		Generator's Site Address (if different than mailing address) Main Post Fort Monmouth, NJ 07703							
6. Transporter 1 Company Name Freehold Cartage Inc. (FCI)					U.S. EPA ID Number NJ104126164						
7. Transporter 2 Company Name					U.S. EPA ID Number						
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site #2 Larkfield 49350 N. 194 Service Drive Bellefonte, MI 48811 Facility's Phone: 800-592-5489					U.S. EPA ID Number MI10418000033						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit WL/Vol.	13. Waste Codes			
				No.	Type						
	X	1. RCL UN 3432, Polychlorinated biphenyls, Solid Mixture, Class B, PG III, EPC# 1/1		XXI	CM	18,000	kg	PCB1			
		2. 11/7613									
		3.									
		4.									
14. Special Handling Instructions and Additional Information 11541185WDL - PCB Soil & Concrete Truck # 895 Trailer # 4445 AWT PO # 14485 MP Box # 0714											
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.											
Generator's/Officer's Printed/Typed Name William R. Colaro		Signature <i>[Signature]</i>				Month 08	Day 03	Year 16			
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: _____ Date leaving U.S.: _____								
	Transporter signature (for exports only): _____										
	17. Transporter Acknowledgment of Receipt of Materials										
	Transporter 1 Printed/Typed Name Freehold Cartage Inc.		Signature <i>[Signature]</i>				Month 08	Day 03	Year 16		
	Transporter 2 Printed/Typed Name		Signature <i>[Signature]</i>				Month	Day	Year		
DESIGNATED FACILITY	18. Discrepancy										
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection										
	Manifest Reference Number: _____										
	18b. Alternate Facility (or Generator)						U.S. EPA ID Number				
	Facility's Phone: _____										
	18c. Signature of Alternate Facility (or Generator)						Month	Day	Year		
	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
	1. PCB	2.	3.	4.							
	20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
	Printed/Typed Name William R. Colaro				Signature <i>[Signature]</i>				Month 08	Day 03	Year 16

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

AWT ENVIRONMENTAL SERVICES, INC.
ATTN: ACCOUNTS PAYABLE
P.O. BOX 128
SAYERVILLE, NJ 08871

Receipt ID: 1266872
EQ Account #: 1070
Manifest / BOL: 011852570JJK
Transporter: FCI
Date: 08/04/2016
Time In: 4:38 PM
Time Out: 5:54 PM

Line	Description Generator	Qty. Unit
1 - 1	I150185WDI - PCB Concrete	21.050 TONS
	Hazardous Surcharge Ton	21.050 TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST	
	Gross: 79,020 Tare: 36,920 Net: 42,100	
2	Wayne Disposal Host Community Agreement Royalty Fee	21.050 TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST	
	Gross: 79,020 Tare: 36,920 Net: 42,100	



FREEHOLD CARGAGE INC.
P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924

BILL OF LADING
FCI EPA ID NO. NJD054126164
S 590931

350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fax: (302) 658-6229

175 Bartow Mun. Airport
Bartow, FL 33830
Phone: (863) 533-4599
Fax: (863) 533-1613

5533 Dunham Road
Maple Heights, OH 44137
Phone: (330) 835-3473
Fax: (330) 835-3732

108 Monahan Avenue
Dunmore, PA 18512
Phone: (570) 342-7232
Fax: (570) 342-7367

132 Myrtle Beach Hwy
Sumter, SC 29153
Phone: (803) 773-2611
Fax: (803) 773-2942

SHIPPER NAME/ADDRESS H. Monahan		PHONE (AREA CODE) 796		TRAILER 4105		APPOINTMENT TIME :	
FCI REP. LOADING (PRINT) Robert Maurer		PROCEDURE Removal		EQUIP. SPOTTED —		EQUIP. REMOVED 2450	
TIME AT SHIPPER 12:00		(MILITARY TIME ONLY) 13:30		ARRIVAL TIME		DEPARTURE TIME	
COMMENTS OR DELAYS AT SHIPPER Lead Transferred (941060501) (RM)				EQUIPMENT USED 0504			

BROKER:		MANIFEST / DOCUMENT NO.								
PO#:	WO#:	1116968								
(X) HM	PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
1	See Manifest	9	34130	III	1	CM	30	Y		
2										
3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER.		
SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.		
Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.		
PLEASE PRINT NAME/TITLE William E. (du)	SHIPPER'S SIGNATURE X [Signature] for U.S. Army I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT	DATE LOADED 8 / 3 / 16 MO. DAY YR.

CONSIGNEE NAME/ADDRESS Belle Mead		PHONE (AREA CODE) 796		TRAILER 4105		APPOINTMENT TIME :	
FCI REP. UNLOADING (PRINT) Ken Maurer		PROCEDURE Dump		EQUIP. SPOTTED —		EQUIP. REMOVED 0504	
TIME AT CONSIGNEE 13:30		(MILITARY TIME ONLY) 15:—		ARRIVAL TIME		DEPARTURE TIME	
COMMENTS OR DELAYS AT CONSIGNEE				EQUIPMENT USED			
PLEASE PRINT NAME/TITLE		CONSIGNEE SIGNATURE X [Signature]		DATE UNLOADED 8 / 9 / 16 MO. DAY YR.			

AR H-0257	MD HWH-167	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	2001-OPV-2335	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203	ME ME-HWT-47	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
DE-SW-203	ME-WOT-47	NJ S-2265	PA PA-AH-0067	
IL UPW-0190713-OH	MI UPW-0190713-OH	15939	QUEBEC, CANADA QC-6ML-047	
MA MA-294	MN UPW-0190713-OH	NY NJ-113	RI RI-535	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF
Gold - Retained by Generator

S 590931

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NJ3240020867	2. Page 1 of 1	3. Emergency Response Phone 732 613 1830	4. Manifest Tracking Number 011852565 JJK
5. Generator's Name and Mailing Address US Dept of Army-Fort Monmouth - Main Post P O Box 143 Fort Monmouth, NJ 07707			Generator's Site Address (if different than mailing address) Main Post Fort Monmouth, NJ 07707		
Generator's Phone:					
6. Transporter 1 Company Name Freehold Cartage Inc. (FCI)			U.S. EPA ID Number NJD 054126164		
7. Transporter 2 Company Name NA			U.S. EPA ID Number NA		
8. Designated Facility Name and Site Address Wynne Disposal, Inc. 400 W 21 and J 400 W 21 & J Service Drive Belleville, NJ 08003 800-552-2400			U.S. EPA ID Number MTX004000213		
Facility's Phone:					
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity
			No.	Type	12. Unit Wt/Vol
	1.	1. POLYCHLORINATED BIPHENYLS, LIQUID, MIXTURE, CLASS III, PCBs III, EPCW 111	XXI	1M	30,000 Kg
	2.				
	3.				
4.					
14. Special Handling Instructions and Additional Information 1150180000-PCB coils & concrete AWT PO # 14485 RPT Truck # 796, Trailer # 405 Box # 9450 00001 Rm					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator's/Offor's Printed/Typed Name William C. [Signature]		Signature [Signature]		Month Day Year 08 03 16	
INTL	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____ Transporter signature (for exports only): _____ Date leaving U.S.: _____				
	17. Transporter Acknowledgment of Receipt of Materials				
TRANSPORTER	Transporter 1 Printed/Typed Name K. [Signature]		Signature [Signature]		Month Day Year 08 03 16
	Transporter 2 Printed/Typed Name		Signature		Month Day Year
DESIGNATED FACILITY	18. Discrepancy				
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection				
	Manifest Reference Number:				
	18b. Alternate Facility (or Generator)		U.S. EPA ID Number		
	Facility's Phone:				
18c. Signature of Alternate Facility (or Generator)					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1. PLB		2.		3.	
4.		5.		6.	
20. Designated Facility Owner or Operator Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name [Signature]		Signature [Signature]		Month Day Year 08 03 16	

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

AWT ENVIRONMENTAL SERVICES, INC
ATTN: ACCOUNTS PAYABLE
P.O. BOX 128
SAYERVILLE, NJ 08871

Receipt ID: 1267046
EQ Account #: 1070
Manifest / BOL: 011852565JJK
Transporter: FCI
Date: 08/09/2016
Time In: 1:42 PM
Time Out: 2:42 PM

Line	Description Generator	Qty.	Unit
1 - 1	1150185WDI - PCB Concrete	21.020	TONS
	Hazardous Surcharge Ton	21.020	TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST		
	Gross: 78,600 Tare: 36,560 Net: 42,040		
2	Wayne Disposal Host Community Agreement Royalty Fee	21.020	TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST		
	Gross: 78,600 Tare: 36,560 Net: 42,040		

**FREEHOLD CARTAGE INC.**P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924**BILL OF LADING**
FCI EPA ID NO. NJD054126164**S 590772**350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fax: (302) 658-6229175 Bartow Mun. Airport
Bartow, FL 33830
Phone: (863) 533-4599
Fax: (863) 533-16135533 Dunham Road
Maple Heights, OH 44137
Phone: (330) 835-3473
Fax: (330) 835-3732108 Monahan Avenue
Dunmore, PA 18512
Phone: (570) 342-7232
Fax: (570) 342-7367132 Myrtle Beach Hwy
Sumter, SC 29153
Phone: (803) 773-2611
Fax: (803) 773-2942

SHIPPER NAME/ADDRESS <i>US Army / Fort Monmouth, NJ</i>		PHONE (AREA CODE) TRACTOR <i>855</i> TRAILER <i>9445</i>		APPOINTMENT TIME : :	
FCI REP. LOADING (PRINT) <i>D. Wolk</i>	PROCEDURE <i>Removal</i>	EQUIP. SPOTTED	EQUIP. REMOVED <i>0605</i>	TIME AT SHIPPER <i>14:15</i>	(MILITARY TIME ONLY) <i>15:45</i>
COMMENTS OR DELAYS AT SHIPPER				ARRIVAL TIME DEPARTURE TIME	
				EQUIPMENT USED	

BROKER:PO#: WO#: *1116839***MANIFEST / DOCUMENT NO.** *01155 256434*

(X) HM	PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
1	<i>See Manifest</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>1</i>	<i>24</i>	<i>30</i>	<i>HD</i>	<i>-</i>	<i>5</i>
2										
3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER.

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE <i>William R. Colvin</i>	SHIPPER'S SIGNATURE <i>X William R. Colvin Gen US Army</i> I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT	DATE LOADED <i>5/1/16</i> MO. DAY YR.
---	---	---

CONSIGNEE NAME/ADDRESS <i>Waste Services Bartow, FL</i>		PHONE (AREA CODE) TRACTOR <i>892</i> TRAILER <i>372</i>		APPOINTMENT TIME : :	
FCI REP. UNLOADING (PRINT) <i>D. Wolk</i>	PROCEDURE <i>Drop</i>	EQUIP. SPOTTED	EQUIP. REMOVED <i>0605</i>	TIME AT CONSIGNEE <i>15:00</i>	(MILITARY TIME ONLY) <i>16:15</i>
COMMENTS OR DELAYS AT CONSIGNEE				ARRIVAL TIME DEPARTURE TIME	
				EQUIPMENT USED	

PLEASE PRINT NAME/TITLE	CONSIGNEE SIGNATURE <i>X [Signature]</i>	DATE UNLOADED <i>5/1/16</i> MO. DAY YR.
-------------------------	---	---

AR H-0257	MD HWH-167	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	2001-OPV-2335	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203	ME ME-HWT-47	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
DE-SW-203	ME-WOT-47	NJ S-2265	PA PA-AH-0067	
IL UPW-0190713-OH	MI UPW-0190713-OH	15939	QUEBEC, CANADA QC-6ML-047	
MA MA-294	MN UPW-0190713-OH	NY NJ-113	RI RI-535	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF
Gold - Retained by Generator

S 590772

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NJ3210020597	2. Page 1 of 1	3. Emergency Response Phone 732-612-1691	4. Manifest Tracking Number 011852564 JJK	
5. Generator's Name and Mailing Address US Dept of Army Fort Monmouth - Main Post - P.O. Box 148 Oceanport, NJ 07757			Generator's Site Address (if different than mailing address) Main Post Fort Monmouth, NJ 07703			
6. Transporter 1 Company Name Freehold Cartage Inc.			U.S. EPA ID Number NJ01 054126144			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Wayne Industrial Inc. Site #21 Landfill 49350 M 104 Service Drive Belle Mead, NJ 08502			U.S. EPA ID Number NJ01 054126144			
Facility's Phone: 609-661-5550						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity
				No.	Type	12. Unit WL/Vol.
	1.	1. RQ, UN 3077, Polychlorinated Biphenyls, Solid, Ignitable, Class 3, PCBs, 1135# 171		20	KG	KG
		Truck # 895 Box 0605				
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1150 HWY 1 - PCB DUMPS Concrete ASPH 10 # 1135 MP Truck # 895 Box # 0605						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name William L. ...			Signature [Signature]		Month Day Year 12/01/12	
INT'L	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:					
	Transporter signature (for exports only):					
TRANSPORTER	17. Transporter Acknowledgment of Receipt of Materials					
	Transporter 1 Printed/Typed Name			Signature		Month Day Year
	Transporter 2 Printed/Typed Name			Signature		Month Day Year
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
	Manifest Reference Number:					
	18b. Alternate Facility (or Generator)			U.S. EPA ID Number		
	Facility's Phone:					
18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. 1135		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name			Signature		Month Day Year	

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

AWT ENVIRONMENTAL SERVICES, INC.
ATTN: ACCOUNTS PAYABLE
P.O. BOX 128
SAYERVILLE, NJ 08871

Receipt ID: 1267113
EQ Account #: 1070
Manifest / BOL: 011852564JJK
Transporter: FCI
Date: 08/10/2016
Time In: 3:22 PM
Time Out: 4:26 PM

Line	Description Generator	Qty. Unit
1 - 1	I150185WDI - PCB Concrete	20 950 TONS
	Hazardous Surcharge Ton	20 950 TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST	
	Gross: 78,980 Tare: 37,080 Net: 41,900	
2	Wayne Disposal Host Community Agreement Royalty Fee	20 950 TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST	
	Gross: 78,980 Tare: 37,080 Net: 41,900	



FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924

BILL OF LADING
FCI EPA ID NO. NJD054126164

S 590953

350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fax: (302) 658-6229

175 Bartow Mun. Airport
Bartow, FL 33830
Phone: (863) 533-4599
Fax: (863) 533-1613

5533 Dunham Road
Maple Heights, OH 44137
Phone: (330) 835-3473
Fax: (330) 835-3732

108 Monahan Avenue
Dunmore, PA 18512
Phone: (570) 342-7232
Fax: (570) 342-7367

132 Myrtle Beach Hwy
Sumter, SC 29153
Phone: (803) 773-2611
Fax: (803) 773-2942

SHIPPER NAME/ADDRESS <i>Full Member</i>			PHONE (AREA CODE)								
TRACTOR <i>796</i>			TRAILER <i>L105</i>			APPOINTMENT TIME _____:					
FCI REP. LOADING (PRINT) <i>Robert M...</i>		PROCEDURE <i>Removal</i>		EQUIP. SPOTTED		EQUIP. REMOVED <i>1901</i>		TIME AT SHIPPER (MILITARY TIME ONLY)			
ARRIVAL TIME		DEPARTURE TIME		COMMENTS OR DELAYS AT SHIPPER <i>Original In House - Lost by Wayne Salt House</i>		EQUIPMENT USED					
BROKER:			MANIFEST / DOCUMENT NO.								
PO#:			WO#:								
(X) HM	PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM	
<i>X</i>	<i>1</i>	<i>9</i>	<i>34137</i>	<i>III</i>	<i>1</i>	<i>CM</i>	<i>300</i>	<i>Y</i>			
	<i>2</i>										
	<i>3</i>										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER.

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE	SHIPPER'S SIGNATURE <i>X</i>	DATE LOADED <i>8/1/16</i>
	I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT	MO. DAY YR.

CONSIGNEE NAME/ADDRESS <i>Wayne Distinct</i>			PHONE (AREA CODE)								
TRACTOR <i>796</i>			TRAILER <i>L105</i>			APPOINTMENT TIME _____:					
FCI REP. UNLOADING (PRINT) <i>Robert M...</i>		PROCEDURE <i>Dump</i>		EQUIP. SPOTTED		EQUIP. REMOVED		TIME AT CONSIGNEE (MILITARY TIME ONLY)			
ARRIVAL TIME		DEPARTURE TIME		COMMENTS OR DELAYS AT CONSIGNEE <i>Original In House - Lost by Wayne Salt House</i>		EQUIPMENT USED					
PLEASE PRINT NAME/TITLE			CONSIGNEE SIGNATURE <i>X</i>			DATE UNLOADED <i>8/2/16</i>					
						MO. DAY YR.					

AR H-0257	MD HWH-167	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	2001-OPV-2335	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203	ME ME-HWT-47	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
DE-SW-203	ME-WOT-47	NJ S-2265	PA PA-AH-0067	
IL UPW-0190713-OH	MI UPW-0190713-OH	15939	QUEBEC, CANADA QC-6ML-047	
MA MA-294	MN UPW-0190713-OH	NY NJ-113	RI RI-535	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF

S 590953

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 1130185WDT	2. Page 1 of 1	3. Emergency Response Phone 732 613 1000	4. Manifest Tracking Number 011852563 JJK	
5. Generator's Name and Mailing Address U.S. Army Fort Monmouth, NJ 08034 Attn: EPA Campus 1300			Generator's Site Address (if different than mailing address) Attn: EPA Fort Monmouth, NJ 08034			
Generator's Phone						
6. Transporter 1 Company Name Fleet Maintenance			U.S. EPA ID Number NJ D005129100			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address 1130185WDT - PCB Soil & Concrete Denville, NJ 07834			U.S. EPA ID Number NJ D005129100			
Facility's Phone						
9a HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt/Vol	13. Waste Codes
		No.	Type			
1	1130185WDT - PCB Soil & Concrete Truck # 746	XXI	100	32.00	Kg	PCB
2						
3						
4						
14. Special Handling Instructions and Additional Information 1130185WDT - PCB Soil & Concrete AWT PO. # 14485-MP 7/05/16						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Officer's Printed/Typed Name William R. Colvin Jr. US Army		Signature [Signature]		Month 08	Day 01	Year 16
16. International Shipments Transporter signature (for exports only):		☐ Import to U.S. ☐ Export from U.S.		Port of entry/exit: Date leaving U.S.:		
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Robert M. [Signature]		Signature [Signature]		Month 08	Day 01	Year 16
Transporter 2 Printed/Typed Name		Signature		Month	Day	Year
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection						
18b. Alternate Facility (or Generator)			Manifest Reference Number: U.S. EPA ID Number			
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)			Month Day Year			
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.	2.	3.	4.			
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 18a						
Printed/Typed Name [Signature]		Signature [Signature]		Month	Day	Year

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

AWT ENVIRONMENTAL SERVICES, INC.
ATTN: ACCOUNTS PAYABLE
P.O. BOX 128
SAYERVILLE, NJ 08871

Receipt ID: 1266731
EQ Account #: 1070
Manifest / BOL: 011852563.IJK
Transporter: FCI
Date: 08/02/2016
Time In: 8:58 AM
Time Out: 10:19 AM

Line	Description Generator	Qty. Unit
1 - 1	I150185WDI - PCB Concrete	20 360 TONS
	Hazardous Surcharge Ton	20 350 TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST	
	Gross: 78,020 Tare: 37,300 Net: 40,720	
2	Wayne Disposal Host Community Agreement Royalty Fee	20 360 TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST	
	Gross: 78,020 Tare: 37,300 Net: 40,720	



FREEHOLD CARTAGE INC.

P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924BILL OF LADING
FCI EPA ID NO. NJD054126164

S 579185

350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fax: (302) 658-6229175 Bartow Mun. Airport
Bartow, FL 33830
Phone: (863) 533-4599
Fax: (863) 533-16135533 Dunham Road
Maple Heights, OH 44137
Phone: (330) 835-3473
Fax: (330) 835-3732108 Monahan Avenue
Dunmore, PA 18512
Phone: (570) 342-7232
Fax: (570) 342-7367132 Myrtle Beach Hwy
Sumter, SC 29153
Phone: (803) 773-2611
Fax: (803) 773-2942

SHIPPER NAME/ADDRESS US Dept of Army - Fort Monmouth - main post PO Box 148 Fort Monmouth NJ		PHONE 732 303-1660 (AREA CODE)		S T R T M A N I F E S T	
TRACTOR 7417		TRAILER		APPOINTMENT TIME :	
FCI REP. LOADING (PRINT) K. Reeves	PROCEDURE Remove	EQUIP. SPOTTED	EQUIP. REMOVED 9741	TIME AT SHIPPER 12:15 ARRIVAL TIME	(MILITARY TIME ONLY) 12:30 DEPARTURE TIME
COMMENTS OR DELAYS AT SHIPPER				EQUIPMENT USED	

BROKER:		MANIFEST / DOCUMENT NO 011852566 SSK									
PO #:		WO #:		1116967							
(X) HM	PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM	
X	See manifest	9	3432	III	01	CM	EST 20 m	K	PERI	S	
2											
3											

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER.

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE William R Colvin	SHIPPER'S SIGNATURE x [Signature] for U.S. Army I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT	DATE LOADED 08/08/16 MO. DAY YR.
---	--	--

CONSIGNEE NAME/ADDRESS Wayne Disposal Belleville MI		PHONE 800 592-2489 (AREA CODE)		S T R T M A N I F E S T	
TRACTOR 880		TRAILER 335		APPOINTMENT TIME :	
FCI REP. UNLOADING (PRINT) Snyder	PROCEDURE Unload	EQUIP. SPOTTED 9741	EQUIP. REMOVED	TIME AT CONSIGNEE 16:00 ARRIVAL TIME	(MILITARY TIME ONLY) 17:00 DEPARTURE TIME
COMMENTS OR DELAYS AT CONSIGNEE				EQUIPMENT USED	

PLEASE PRINT NAME/TITLE	CONSIGNEE SIGNATURE X [Signature]	DATE UNLOADED 8/9/16 MO. DAY YR.
-------------------------	--------------------------------------	--

AR H-0257	MD HWH-167	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	2001-OPV-2335	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203	ME ME-HWT-47	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
DE-SW-203	ME-WOT-47	NJ S-2265	PA PA-AH-0067	
IL UPW-0190713-OH	MI UPW-0190713-OH	15939	QUEBEC, CANADA QC-6ML-047	
MA MA-294	MN UPW-0190713-OH	NY NJ-113	RI RI-535	

White - FCI Original
 Yellow - FCI Billing
 Blue - FCI Office/Customer
 Green - Retained by TSDF
 Gold - Retained by Generator

S 579185

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number 113718020597		2. Page 1 of 1		3. Emergency Response Phone 732-413-1600		4. Manifest Tracking Number 011852566 JJK		
		5. Generator's Name and Mailing Address US Dept of Army - Fort Monmouth - Main Post P O Box 148 Oceanport, NJ 07757		Generator's Site Address (if different than mailing address) Main Post Fort Monmouth, NJ 07703		6. Transporter 1 Company Name Freehold Carbage Inc. (FCI)		U.S. EPA ID Number MSD 054126114		
7. Transporter 2 Company Name NA		U.S. EPA ID Number NA		8. Designated Facility Name and Site Address Wayne Disposal Inc Site #2 Landfill 49350 N. 104 Service Drive Belleville, MI 48111		U.S. EPA ID Number MI0048090631		Facility's Phone: 800-582-5460		
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))			10. Containers		11. Total Quantity	12. Unit Wt/Vol	13. Waste Codes	
	X	1. RQ, UN-3432, Polychlorinated Biphenyls, Solid Mixture, Class 9, PG III, ERG# 171			XX1	CM	29000	Kg	PCB1	
		2.								
		3.								
		4.								
14. Special Handling Instructions and Additional Information 1150185WPI - PCB Soil & Concrete Truck # 747 Box # 0741 AWT PO # 14485 MP ESD 8-0-16										
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.										
Generator's/Offor's Printed/Typed Name William R Colvin										
Signature <i>William R Colvin</i> Month Day Year 08 03 16										
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: 1 Transporter signature (for exports only): Date leaving U.S.:									
	17. Transporter Acknowledgment of Receipt of Materials									
Transporter 1 Printed/Typed Name Ken Brown										
Signature <i>Ken Brown</i> Month Day Year 08 03 16										
Transporter 2 Printed/Typed Name Signature Month Day Year										
DESIGNATED FACILITY	18. Discrepancy									
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection									
	Manifest Reference Number:									
	18b. Alternate Facility (or Generator) U.S. EPA ID Number									
	Facility's Phone:									
18c. Signature of Alternate Facility (or Generator) Month Day Year										
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)										
1. PLD 2. 3. 4.										
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a										
Printed/Typed Name Signature Month Day Year William R Colvin <i>William R Colvin</i> 08 03 16										

Wayne Disposal, Inc.
49350 North I-94 Service Drive, Belleville, Michigan 48111

Receipt

AWT ENVIRONMENTAL SERVICES, INC.
ATTN: ACCOUNTS PAYABLE
P.O. BOX 128
SAYERVILLE, NJ 08871

Receipt ID: 1267058
EQ Account #: 1070
Manifest / BOL: 011852566JJJ
Transporter: FCI
Date: 08/09/2016
Time In: 4:18 PM
Time Out: 5:03 PM

Line	Description Generator	Qty. Unit
1 - 1	1150185WDI - PCB Concrete	20.300 TONS
	Hazardous Surcharge Ton	20.300 TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST	
	Gross: 77,720 Tare: 37,120 Net: 40,600	
2	Wayne Disposal Host Community Agreement Royalty Fee	20.300 TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST	
	Gross: 77,720 Tare: 37,120 Net: 40,600	

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NJ3210020597	2. Page 1 of 1	3. Emergency Response Phone 732-613-1660	4. Manifest Tracking Number 011852576 JJK	
5. Generator's Name and Mailing Address US Dept of Army-Fort Monmouth - Main Post P.O. Box 148 Oceanport, NJ 07757			Generator's Site Address (if different than mailing address) Main Post Fort Mounmouth, NJ 07703			
6. Transporter 1 Company Name Maumee Express, Inc.			U.S. EPA ID Number NJD986607380			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Cycle Chem, Inc. 217 South First Street Elizabeth, NJ 07206 908-355-5800			U.S. EPA ID Number NJ0002200046			
Facility's Phone:						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))		10. Containers		11. Total Quantity	12. Unit WL/Vol
			No.	Type		
	X 1. UN-2315 - Polychlorinated Biphenyls - Liquid, Class 9, PG II		16	DM	5,600	X P
	2.					
	3.					
4.						
14. Special Handling Instructions and Additional Information PCB Contaminated Water 90-100%, Sol/Debris 0-10% AWT P.O. # 14485-MP 980839						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offero's Printed/Typed Name William R. Colvin for US Army			Signature <i>William R. Colvin for US Army</i>		Month 08	Day 29
16. International Shipments ☐ Import to U.S. ☐ Export from U.S.			Port of entry/exit: Date leaving U.S.:			
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name M. Anderson			Signature <i>M. Anderson</i>		Month 8	Day 29
Transporter 2 Printed/Typed Name			Signature		Month	Day
18. Discrepancy						
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection 14-1) 2545 14-1) R 14-1) 058 8/29/16 732 3835140						
18b. Alternate Facility (or Generator) U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator) Month Day Year						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H111		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in item 19a						
Printed/Typed Name R. Gibson			Signature <i>R. Gibson</i>		Month 08	Day 29

Attachment E
Building 1208 and 1209 IRA Report



October 18, 2016

Mr. James Moore
U.S. Army Corps of Engineers, New York District
Attn: CENAN-PP-E
26 Federal Plaza, Room 1811
New York, NY 10278

**Subject: Soil/Concrete Removal and Confirmation Sampling at Buildings 1208 and 1209 for PCB Analysis Report for the Environmental Contamination Assessments/Support Project at Fort Monmouth, Oceanport, New Jersey
Contract Number W912DY-10-D-0015, Task Order 0007
DCN: TTEC-WERS-17-0009**

Dear Mr. Moore:

In accordance with the requirements of the Performance Work Statement for Task Order 0007 of Contract Number W9128DY-10-D-0015 as amended, Tetra Tech is pleased to submit this Letter Report for the removal and confirmation sampling of polychlorinated biphenyl (PCB)-impacted soil and concrete at Buildings 1208 and 1209, Fort Monmouth, New Jersey. Copies of this letter report have also been submitted to the recipients on the attached distribution list, quantities as indicated.

SCOPE OF WORK

The purpose of this letter report is to document the tasks and methods associated with completing the removal of PCB-impacted soil and concrete at Buildings 1208 and 1209 to facilitate the transfer of property from Fort Monmouth to the private sector under the Base Realignment and Closure (BRAC) program.

In June 2015, a records review conducted by Fort Monmouth identified three areas (Buildings 1002, 1208 and 1209) with documented PCB spills that had been sampled but had not achieved regulatory closure. Tetra Tech was tasked with conducting remedial actions for the PCB-contaminated slabs at Buildings 1208 and 1209. Building 1002 will be addressed under a separate letter report.

REPORT ORGANIZATION

Figures for each site are provided in **Attachment 1**, photographs documenting site activities in **Attachment 2**, and summary analytical tables in **Attachment 3**. The laboratory analytical reports are provided as **Attachment 4**. **Attachment 5** contains the requirements for New Jersey soil compliance averaging for site remediation. **Attachment 6** contains the waste disposal documentation.

PCB REMOVAL AT BUILDING 1208

In December 2015 Tetra Tech removed a 16.5 foot (ft.) by 7 ft. area of the PCB-impacted concrete slab approximately 4 inches (in.) thick (**Photograph 1**). Fifteen sub-slab soil and six concrete samples were collected at 19 locations following the concrete removal (**Figure 1**).

The duplicate soil sample at sample 018 had an Aroclor-1260 detection of 0.039 mg/kg which was below the Aroclor Residential Soil Remediation Standard (RSRS) of 0.2 mg/kg. Aroclor-1260 was detected in all six concrete samples with four (sample locations 007, 012, 013, and 016) exceeding the Aroclor RSRS of 0.2 mg/kg and two (sample locations 004 and 008) exceeding the Aroclor Non-Residential Soil Remediation

Tetra Tech, Inc.

1093 Commerce Park Drive Suite 100, Oak Ridge, Tennessee 37830

Tel 865.483.9900 Fax 865.425.1182

www.tetrattech.com



Standard (NRSRS) of 1.0 mg/kg. The highest Aroclor-1260 concentration of 69 mg/kg was along the east side at concrete sample 004. The sample locations and results are shown on **Figure 1**. **Table 1** summarizes the laboratory results for the December 2015 investigation.

Additional Work

In accordance with the Letter Work Plan dated June 2, 2016, *Removal of PCB-Contaminated Materials at Buildings 1002, 1208 and 1209 and Parcel 97 (Building 978)*, removal of PCB-impacted concrete and soil above the RSRS of 0.2 mg/kg and soil confirmation sampling was conducted based on the results of the December 2015 investigation.

In July 2016, Tetra Tech and its subcontractor AWT Environmental Services removed the identified concrete and soil at Building 1208. **Figure 2** shows the approximately 3 ft. by 11 ft. area of concrete removed along the east side of the excavation as well as a 2 ft. by 11 ft. area on the west side. Soil was then excavated to a depth of 0.5 ft. below the concrete depth (**Photograph 2**).

Six soil confirmation samples and one field duplicate were collected at locations with previous Aroclor-1260 exceedances and analyzed for PCBs and EPH (**Figure 2**). There were no EPH detections in any of the confirmation samples (**Table 2**). Two of the six samples had Aroclor-1260 detections, 0.038 mg/kg at sample location 007 and 0.037 mg/kg at sample location 012, both below the RSRS of 0.2 mg/kg (**Table 1**).

PCB REMOVAL AT BUILDING 1209

In December 2015 Tetra Tech removed an area of PCB-impacted concrete slab approximately 12.5 ft. by 6 ft. and 4 in. thick (**Photograph 3**). Nineteen sub-slab soil and six concrete confirmation samples were collected at 19 locations following the concrete removal (**Figure 3**).

Thirteen of 17 soil samples had Aroclor-1260 detections. Five detections were below the RSRS. Two detections at sample locations 015 and 019 had Aroclor-1260 detections of 0.059 and 0.071 mg/kg, respectively in the deep samples which were below the Aroclor RSRS, and six detections (two duplicate samples), all located at the south part of the cut out, exceeded the NRSRS. Aroclor-1260 concentrations for these samples ranged from 1.1 mg/kg in the duplicate at sample location 014 to 11 mg/kg at location 017. Aroclor-1260 was detected in all six concrete samples with one (sample location 012) exceeding the Aroclor RSRS of 0.2 mg/kg and five (sample locations 004, 007, 008, 013, and 016) exceeding the Aroclor NRSRS of 1.0 mg/kg. The highest Aroclor-1260 concentration of 4.7 mg/kg was along the west side at concrete location 016. The sample locations and results are shown on **Figure 3**. **Table 3** summarizes the laboratory results for the investigation.

Additional Work

In accordance with Letter Work Plan dated 2 June 2016, *Removal of PCB-Contaminated Materials at Buildings 1002, 1208 and 1209 and Parcel 97 (Building 978)*, removal of PCB concrete and soil above the Aroclor RSRS of 0.2 mg/kg and soil confirmation sampling was proposed based on areas identified in the December 2015 investigation.

In July 2016, Tetra Tech and its subcontractor AWT Environmental Services removed concrete and soil from areas identified in the December 2015 investigation. **Figure 4** shows the approximately 2 ft. by 11 ft. of concrete removed along the east side of the excavation as well as a 2 ft. by 12 ft. area on the west side. Soil was then excavated to a depth of 0.5 ft. below the concrete removed in July (**Photographs 4 and 5**). Approximately 1.5 ft. of soil below the concrete at the south end of the excavation was removed for the Aroclor-1260 exceedances identified in December 2015.

Eight soil confirmation samples and one concrete confirmation sample were collected at locations with previous Aroclor-1260 exceedances and analyzed for PCBs and EPH. One soil sample had an Aroclor-1260 detection of 0.052 mg/kg at location 022, which was below the RSRS of 0.2 mg/kg. The concrete sample collected at location 071 had an Aroclor-1260 detection of 0.42 mg/kg, which exceeded the RSRS. The requirements of N.J.A.C. 7:26E-4.9(c)3i (**Attachment 5**) allows that the average contaminant concentration of an area of remediation be used to determine compliance with remediation standards or soil cleanup criteria rather than the individual sample concentration. Using the confirmation sampling results from the latest samples, including the exceedance at sample location 071, a compliance average of 0.0643 mg/kg was calculated, which is below the RSRS of 0.2 mg/kg (**Table 4**). There were no EPH detections in any of the confirmation samples (**Table 5**).

Excavated material from Buildings 1208 and 1209 was disposed of off-site on 1-3 August 2016 concurrent with materials from Building 1002 as well as Building 978 (Parcel 97). Waste disposition documentation is provided in **Attachment 6**.

CONCLUSION

This report summarizes the removal of PCB-impacted soil and concrete and confirmation sampling at Buildings 1208 and 1209 to facilitate the transfer of property from Fort Monmouth to the private sector under the BRAC program. The implemented removal action has successfully removed PCB-impacts to the concrete slab and underlying soils to meet residential unrestricted use standards; therefore, no further action is recommended at the two facilities. Should you have any questions or require additional information, please do not hesitate to contact the undersigned at (865) 220-4757 or via e-mail at mikael.spangberg@tetratech.com.

Sincerely,

Mikael L. Spangberg, P.E., PMP
Program Manager

Attachments:

- Attachment 1 – Figures
- Attachment 2 – Photographs
- Attachment 3 – Tabulated Analytical Results
- Attachment 4 – Laboratory Analytical Results
- Attachment 5 – New Jersey Requirements for Soil Compliance Averaging
- Attachment 6 – Waste Disposal Documentation



Document Distribution List

U.S. Army Engineering & Support Center, Huntsville
Project Manager and Contracting Officer's Representative
Attn: CEHNC-ED-CS-P (Mary Young)
4820 University Square
Huntsville, AL 35816-1822

1 electronic (via email)

U.S. Army Corps of Engineers, New York District
Attn: CENAN-PP-E (Mr. James Moore)
26 Federal Plaza, Room 1811
New York, NY 10278

1 electronic (via email)

ATTACHMENT 1

FIGURES

BUILDING 1208
INTERIOR

AROCLOR RESULTS

- Detect > NRSRS
- Detect > RSRS < NRSRS
- Detect < RSRS
- Not Detected

BUILDING 1208
INTERIOR

BUILDING 1208
INTERIOR
CONCRETE
FLOOR

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1208-CO07-01	Aroclor (Total)	0.0-0.04	0.63	0.026
FM-1208-CO07-01	Aroclor-1260	0.0-0.04	0.63	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1208-CO12-01	Aroclor (Total)	0.0-0.04	0.78	0.026
FM-1208-CO12-01	Aroclor-1260	0.0-0.04	0.78	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1208-CO16-01	Aroclor (Total)	0.0-0.04	0.27	0.026
FM-1208-CO16-01	Aroclor-1260	0.0-0.04	0.27	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1208-CO04-01	Aroclor (Total)	0.0-0.04	69	2.6
FM-1208-CO04-01	Aroclor-1260	0.0-0.04	69	2.6

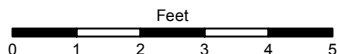
Sample ID	Analyte	Depth (ft)	Result	RL
FM-1208-CO08-01	Aroclor (Total)	0.0-0.04	1.3	0.026
FM-1208-CO08-01	Aroclor-1260	0.0-0.04	1.3	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1208-CO13-01	Aroclor (Total)	0.0-0.04	0.67	0.026
FM-1208-CO13-01	Aroclor-1260	0.0-0.04	0.67	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1208-SO18-01 D	Aroclor (Total)	0.3-0.5	0.039	0.026
FM-1208-SO18-01 D	Aroclor-1260	0.3-0.5	0.039	0.026

NO SOIL
EXCAVATION

CONCRETE REMOVED
DECEMBER 2015



TETRA TECH

NOTES:

1. All results are expressed in units of mg/kg.
2. RL = Reporting Limit
3. The Impact to GW Residential Soil Screening Level and Residential Soil Remediation Standard (RSRS) is 0.2 mg/kg. Exceedances are shaded orange.
4. The Non-Residential Soil Remediation Standard (NRSRS) is 1.0 mg/kg. Exceedances are shaded red.
5. Detections beneath the Residential Cleanup Standard are shaded yellow.

FORT MONMOUTH, NJ

FIGURE 1
BLDG. 1208 SAMPLING RESULTS - DEC. 2015

BUILDING 1208 INTERIOR

AROCLOR RESULTS

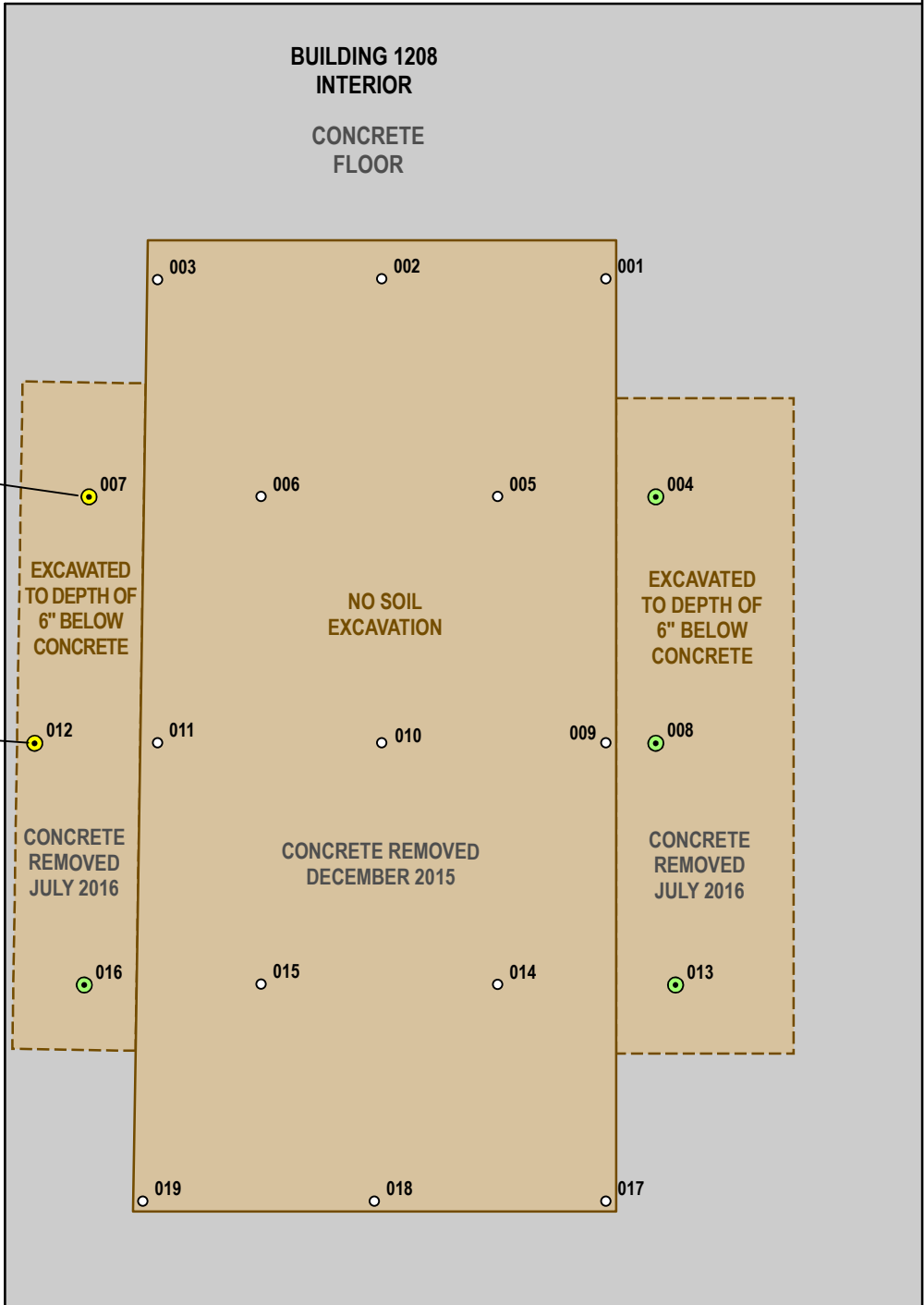
- Detect < RSRS
- Not Detected
- Not Sampled

BUILDING 1208 INTERIOR

BUILDING 1208 INTERIOR CONCRETE FLOOR

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1208-S007-01	Aroclor (Total)	0.8-0.9	0.038	0.29
FM-1208-S007-01	Aroclor-1260	0.8-0.9	0.038	0.29

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1208-S012-01	Aroclor (Total)	0.8-0.9	0.037	0.29
FM-1208-S012-01	Aroclor-1260	0.8-0.9	0.037	0.29



Feet
0 1 2 3 4 5



TETRA TECH

NOTES:

1. All results are expressed in units of mg/kg.
2. RL = Reporting Limit
3. The Impact to GW Residential Soil Screening Level and Residential Soil Remediation Standard (RSRS) is 0.2 mg/kg. Exceedances are shaded orange.
4. The Non-Residential Soil Remediation Standard (NRSRS) is 1.0 mg/kg. Exceedances are shaded red.
5. Detections beneath the Residential Cleanup Standard are shaded yellow.

FORT MONMOUTH, NJ

FIGURE 2
BLDG. 1208 SAMPLING RESULTS - JULY 2016

AROCLOR RESULTS

- Detect > NRSRS
- Detect > RSRS < NRSRS
- Detect < RSRS
- Not Detected

BUILDING 1209
INTERIOR

BUILDING 1209
INTERIOR

CONCRETE
FLOOR

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-SO03-01	Aroclor (Total)	0.3-0.5	0.057	0.031
FM-1209-SO03-01	Aroclor-1260	0.3-0.5	0.057	0.031

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-SO10-01	Aroclor (Total)	0.3-0.5	0.067	0.031
FM-1209-SO10-01	Aroclor-1260	0.3-0.5	0.067	0.031

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-SO05-01	Aroclor (Total)	0.3-0.5	0.053	0.031
FM-1209-SO05-01	Aroclor-1260	0.3-0.5	0.053	0.031

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-CO07-01	Aroclor (Total)	0.0-0.04	1.8	0.13
FM-1209-CO07-01	Aroclor-1260	0.0-0.04	1.8	0.13

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-CO04-01	Aroclor (Total)	0.0-0.04	2.0	0.13
FM-1209-CO04-01	Aroclor-1260	0.0-0.04	2.0	0.13

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-CO12-01	Aroclor (Total)	0.0-0.04	0.44	0.026
FM-1209-CO12-01	Aroclor-1260	0.0-0.04	0.44	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-CO08-01	Aroclor (Total)	0.0-0.04	1.8	0.13
FM-1209-CO08-01	Aroclor-1260	0.0-0.04	1.8	0.13

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-CO16-01	Aroclor (Total)	0.0-0.04	4.7	0.26
FM-1209-CO16-01	Aroclor-1260	0.0-0.04	4.7	0.26

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-CO13-01	Aroclor (Total)	0.0-0.04	3.5	0.26
FM-1209-CO13-01	Aroclor-1260	0.0-0.04	3.5	0.26

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-SO15-01	Aroclor (Total)	0.3-0.5	4.3	0.31
FM-1209-SO15-01	Aroclor-1260	0.3-0.5	4.3	0.31

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-SO14-01	Aroclor (Total)	0.3-0.5	0.71	0.031
FM-1209-SO14-01	Aroclor-1260	0.3-0.5	0.71	0.031

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-SO19-01	Aroclor (Total)	0.3-0.5	0.21	0.031
FM-1209-SO19-01	Aroclor-1260	0.3-0.5	0.21	0.031

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-SO18-01	Aroclor (Total)	0.3-0.5	1.6	0.031
FM-1209-SO18-01	Aroclor-1260	0.3-0.5	1.6	0.031

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-SO17-01	Aroclor (Total)	0.3-0.5	11.0	0.30
FM-1209-SO17-01	Aroclor-1260	0.3-0.5	11.0	0.30
FM-1209-SO17-02	Aroclor (Total)	0.7-0.8	2.1	0.030
FM-1209-SO17-02	Aroclor-1260	0.7-0.8	2.1	0.030

BUILDING 1209
INTERIOR



TETRA TECH



Feet
0 1 2 3 4 5

NOTES:

1. All results are expressed in units of mg/kg.
2. RL = Reporting Limit
3. The Impact to GW Residential Soil Screening Level and Residential Soil Remediation Standard (RSRS) is 0.2 mg/kg. Exceedances are shaded orange.
4. The Non-Residential Soil Remediation Standard (NRSRS) is 1.0 mg/kg. Exceedances are shaded red.
5. Detections beneath the Residential Cleanup Standard are shaded yellow.

FORT MONMOUTH, NJ

FIGURE 3

BLDG. 1209 SAMPLING RESULTS - DEC. 2015

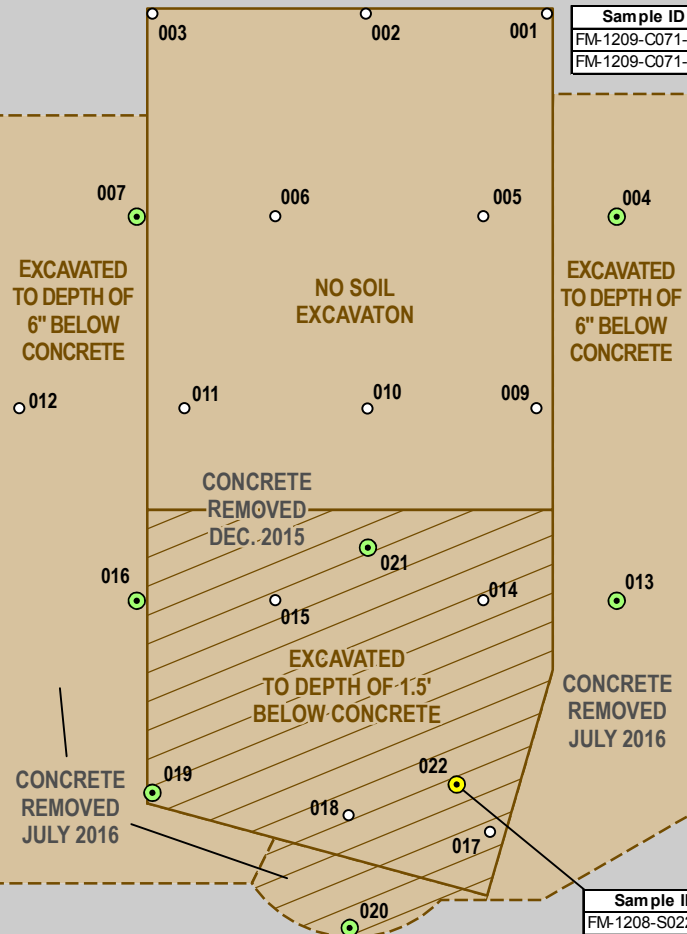
AROCLOR RESULTS

- Detect > RSRS < NRSRS
- Detect < RSRS
- Not Detected
- Not Sampled

BUILDING 1209
INTERIOR

CONCRETE
FLOOR

BUILDING 1209
INTERIOR



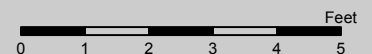
Sample ID	Analyte	Depth (ft)	Result	RL
FM-1209-C071-01	Aroclor (Total)	0.3	0.42	0.026
FM-1209-C071-01	Aroclor-1260	0.3	0.42	0.026

Sample ID	Analyte	Depth (ft)	Result	RL
FM-1208-S022-01	Aroclor (Total)	1.8-1.9	0.052	0.030
FM-1208-S022-01	Aroclor-1260	1.8-1.9	0.052	0.030

BUILDING 1209
INTERIOR



TETRA TECH



NOTES:

- All results are expressed in units of mg/kg.
- RL = Reporting Limit
- The Impact to GW Residential Soil Screening Level and Residential Soil Remediation Standard (RSRS) is 0.2 mg/kg. Exceedances are shaded orange.
- The Non-Residential Soil Remediation Standard (NRSRS) is 1.0 mg/kg. Exceedances are shaded red.
- Detections beneath the Residential Cleanup Standard are shaded yellow.

FORT MONMOUTH, NJ

FIGURE 4

BLDG. 1209 SAMPLING RESULTS - JULY 2016

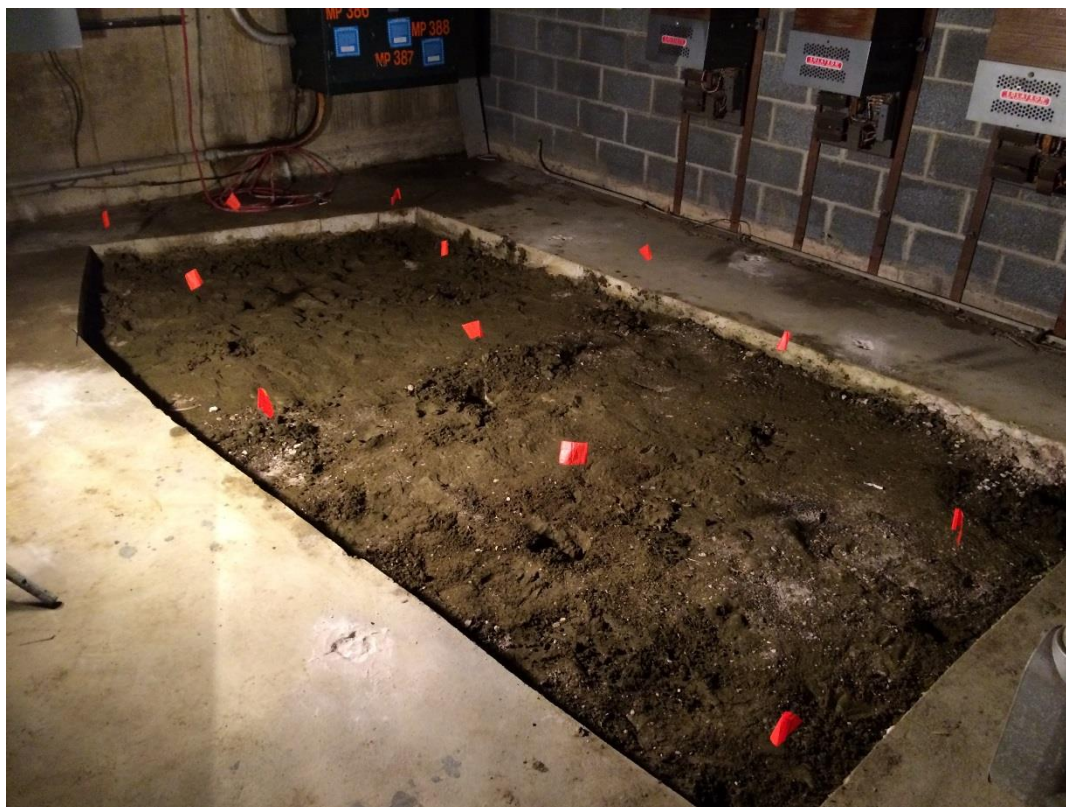
ATTACHMENT 2
PHOTOGRAPHS



Photograph 1. Building 1208, PCB soil and concrete sample locations, view north, 18 December 2015.



Photograph 2. Building 1208, PCB soil sample locations, view north, 2 August 2016.



Photograph 3. Building 1209, PCB soil and concrete sample locations, view south, 18 December 2015.



Photograph 4. Building 1209, PCB soil and concrete sample locations, view south, 2 August 2016.



Photograph 5. Building 1209, PCB soil sample locations, view south, 2 August 2016.

ATTACHMENT 3
TABULATED ANALYTICAL RESULTS

Table 1
PCB Remediation at Building 1208
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

Analytical Method Parameter Units RSRS (mg/kg) NRSRS (mg/kg)					EPA 8082A Aroclor (Total) mg/kg 0.2 1	EPA 8082A Aroclor-1016 mg/kg 0.2 1	EPA 8082A Aroclor-1221 mg/kg 0.2 1	EPA 8082A Aroclor-1232 mg/kg 0.2 1	EPA 8082A Aroclor-1242 mg/kg 0.2 1	EPA 8082A Aroclor-1248 mg/kg 0.2 1	EPA 8082A Aroclor-1254 mg/kg 0.2 1
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix							
FM-1208-CO04-01	12/18/2015	0	0.04	Concrete	69	ND	ND	ND	ND	ND	ND
FM-1208-CO07-01	12/18/2015	0	0.04	Concrete	0.63	ND	ND	ND	ND	ND	ND
FM-1208-CO08-01	12/18/2015	0	0.04	Concrete	1.3	ND	ND	ND	ND	ND	ND
FM-1208-CO12-01	12/18/2015	0	0.04	Concrete	0.78	ND	ND	ND	ND	ND	ND
FM-1208-CO13-01	12/18/2015	0	0.04	Concrete	0.67	ND	ND	ND	ND	ND	ND
FM-1208-CO16-01	12/18/2015	0	0.04	Concrete	0.27	ND	ND	ND	ND	ND	ND
FM-1208-SO01-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO02-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO03-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO05-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO06-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO09-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO10-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO11-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO14-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO14-01 FD	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO15-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO17-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO18-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-SO18-01 D	12/18/2015	0.3	0.5	Soil	0.039	ND	ND	ND	ND	ND	ND
FM-1208-SO19-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-S004-01	8/1/2016	0.3	0.4	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-S004-01 FD	8/1/2016	0.3	0.4	Soil	ND	ND	ND	ND	ND	ND	ND

Table 1
PCB Remediation at Building 1208
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

Analytical Method Parameter Units					EPA 8082A Aroclor (Total) mg/kg	EPA 8082A Aroclor-1016 mg/kg	EPA 8082A Aroclor-1221 mg/kg	EPA 8082A Aroclor-1232 mg/kg	EPA 8082A Aroclor-1242 mg/kg	EPA 8082A Aroclor-1248 mg/kg	EPA 8082A Aroclor-1254 mg/kg
RSRS (mg/kg)					0.2	0.2	0.2	0.2	0.2	0.2	0.2
NRSRS (mg/kg)					1	1	1	1	1	1	1
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix							
FM-1208-S007-01	8/1/2016	0.3	0.4	Soil	0.038	ND	ND	ND	ND	ND	ND
FM-1208-S008-01	8/1/2016	0.3	0.4	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-S012-01	8/1/2016	0.3	0.4	Soil	0.037	ND	ND	ND	ND	ND	ND
FM-1208-S013-01	8/1/2016	0.3	0.4	Soil	ND	ND	ND	ND	ND	ND	ND
FM-1208-S016-01	8/1/2016	0.3	0.4	Soil	ND	ND	ND	ND	ND	ND	ND

Notes:

mg/kg milligrams per kilogram
RSRS New Jersey Department of Environmental
Protection Soil Remediation Standards (June
2, 2008) Residential criteria.

NRSRS New Jersey Department of Environmental
Protection Soil Remediation Standards (June
2, 2008) Non-Residential criteria.

FD Field Duplicate

ND Not Detected

NA No criterion derived for this constituent.

Detected result less than RSRS and less than
NRSRS criteria shown.

Detected result exceeds RSRS but less than
NRSRS criteria shown.

Detected result exceeds RSRS and exceeds
NRSRS criteria shown.

Table 1
PCB Remediation at Building 1208
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

Analytical Method Parameter Units RSRS (mg/kg) NRSRS (mg/kg)					EPA 8082A Aroclor-1260 mg/kg 0.2 1	EPA 8082A Aroclor-1262 mg/kg NA NA	EPA 8082A Aroclor-1268 mg/kg NA NA
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix			
FM-1208-CO04-01	12/18/2015	0	0.04	Concrete	69	ND	ND
FM-1208-CO07-01	12/18/2015	0	0.04	Concrete	0.63	ND	ND
FM-1208-CO08-01	12/18/2015	0	0.04	Concrete	1.3	ND	ND
FM-1208-CO12-01	12/18/2015	0	0.04	Concrete	0.78	ND	ND
FM-1208-CO13-01	12/18/2015	0	0.04	Concrete	0.67	ND	ND
FM-1208-CO16-01	12/18/2015	0	0.04	Concrete	0.27	ND	ND
FM-1208-SO01-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO02-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO03-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO05-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO06-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO09-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO10-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO11-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO14-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO14-01 FD	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO15-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO17-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO18-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-SO18-01 D	12/18/2015	0.3	0.5	Soil	0.039	ND	ND
FM-1208-SO19-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND
FM-1208-S004-01	8/1/2016	0.3	0.4	Soil	ND	ND	ND
FM-1208-S004-01 FD	8/1/2016	0.3	0.4	Soil	ND	ND	ND

Table 1
PCB Remediation at Building 1208
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

Analytical Method Parameter Units RSRS (mg/kg) NRSRS (mg/kg)					EPA 8082A Aroclor-1260 mg/kg 0.2 1	EPA 8082A Aroclor-1262 mg/kg NA NA	EPA 8082A Aroclor-1268 mg/kg NA NA
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix			
FM-1208-S007-01	8/1/2016	0.3	0.4	Soil	0.038	ND	ND
FM-1208-S008-01	8/1/2016	0.3	0.4	Soil	ND	ND	ND
FM-1208-S012-01	8/1/2016	0.3	0.4	Soil	0.037	ND	ND
FM-1208-S013-01	8/1/2016	0.3	0.4	Soil	ND	ND	ND
FM-1208-S016-01	8/1/2016	0.3	0.4	Soil	ND	ND	ND

Notes:

mg/kg

milligrams per kilogram

RSRS

New Jersey Department of Environmental
Protection Soil Remediation Standards (June
2, 2008) Residential criteria.

NRSRS

New Jersey Department of Environmental
Protection Soil Remediation Standards (June
2, 2008) Non-Residential criteria.

FD

Field Duplicate

ND

Not Detected

NA

No criterion derived for this constituent.



Detected result less than RSRS and less than
NRSRS criteria shown.



Detected result exceeds RSRS but less than
NRSRS criteria shown.



Detected result exceeds RSRS and exceeds
NRSRS criteria shown.

Table 2
PCB Remediation at Building 1208
Excavation Confirmation EPH Sample Results
Fort Monmouth, New Jersey

				Analytical Method	NJEPHRev3B
				Parameter	C9-C40
				Units	mg/kg
				RSRS (mg/kg)	NA
				NRSRS (mg/kg)	NA
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix	
FM-1208-S004-01	8/1/2016	0.3	0.4	Soil	ND
FM-1208-S004-01 FD	8/1/2016	0.3	0.4	Soil	ND
FM-1208-S007-01	8/1/2016	0.3	0.4	Soil	ND
FM-1208-S008-01	8/1/2016	0.3	0.4	Soil	ND
FM-1208-S012-01	8/1/2016	0.3	0.4	Soil	ND
FM-1208-S013-01	8/1/2016	0.3	0.4	Soil	ND
FM-1208-S016-01	8/1/2016	0.3	0.4	Soil	ND

Notes:

mg/kg milligrams per kilogram
RSRS New Jersey Department of Environmental Protection Soil Remediation Standards (June 2, 2008) Residential criteria.
NRSRS New Jersey Department of Environmental Protection Soil Remediation Standards (June 2, 2008) Non-Residential criteria.
FD Field Duplicate
ND Not Detected
NA No criterion derived for this constituent.

Table 3
PCB Remediation at Building 1209
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

Analytical Method Parameter Units RSRS (mg/kg) NRSRS (mg/kg)					EPA 8082A Aroclor (Total) mg/kg 0.2 1	EPA 8082A Aroclor-1016 mg/kg 0.2 1	EPA 8082A Aroclor-1221 mg/kg 0.2 1	EPA 8082A Aroclor-1232 mg/kg 0.2 1	EPA 8082A Aroclor-1242 mg/kg 0.2 1	EPA 8082A Aroclor-1248 mg/kg 0.2 1
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix						
FM-1209-CO04-01	12/18/2015	0	0.04	Concrete	2	ND	ND	ND	ND	ND
FM-1209-CO07-01	12/18/2015	0	0.04	Concrete	1.8	ND	ND	ND	ND	ND
FM-1209-CO08-01	12/18/2015	0	0.04	Concrete	1.8	ND	ND	ND	ND	ND
FM-1209-CO12-01	12/18/2015	0	0.04	Concrete	0.44	ND	ND	ND	ND	ND
FM-1209-CO13-01	12/18/2015	0	0.04	Concrete	3.5	ND	ND	ND	ND	ND
FM-1209-CO16-01	12/18/2015	0	0.04	Concrete	4.7	ND	ND	ND	ND	ND
FM-1209-SO01-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND
FM-1209-SO02-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND
FM-1209-SO03-01	12/18/2015	0.3	0.5	Soil	0.057	ND	ND	ND	ND	ND
FM-1209-SO05-01	12/18/2015	0.3	0.5	Soil	0.053	ND	ND	ND	ND	ND
FM-1209-SO05-02	12/18/2015	0.7	0.8	Soil	ND	ND	ND	ND	ND	ND
FM-1209-SO06-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND
FM-1209-SO09-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND
FM-1209-SO10-01	12/18/2015	0.3	0.5	Soil	0.067	ND	ND	ND	ND	ND
FM-1209-SO11-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND	ND	ND
FM-1209-SO14-01	12/18/2015	0.3	0.5	Soil	0.71	ND	ND	ND	ND	ND
FM-1209-SO14-01 FD	12/18/2015	0.3	0.5	Soil	1.1	ND	ND	ND	ND	ND
FM-1209-SO15-01	12/18/2015	0.3	0.5	Soil	4.3	ND	ND	ND	ND	ND
FM-1209-SO15-02	12/18/2015	0.7	0.8	Soil	0.059	ND	ND	ND	ND	ND
FM-1209-SO17-01	12/18/2015	0.3	0.5	Soil	11	ND	ND	ND	ND	ND
FM-1209-SO17-02	12/18/2015	0.7	0.8	Soil	2.1	ND	ND	ND	ND	ND
FM-1209-SO18-01	12/18/2015	0.3	0.5	Soil	1.6	ND	ND	ND	ND	ND
FM-1209-SO18-01 FD	12/18/2015	0.3	0.5	Soil	1.4	ND	ND	ND	ND	ND
FM-1209-SO19-01	12/18/2015	0.3	0.5	Soil	0.21	ND	ND	ND	ND	ND
FM-1209-SO19-02	12/18/2015	0.7	0.8	Soil	0.071	ND	ND	ND	ND	ND
FM-1209-C071-01	7/27/2016	0.3	0.3	Concrete	0.42	ND	ND	ND	ND	ND
FM-1209-S007-02	7/29/2016	0.8	0.9	Soil	ND	ND	ND	ND	ND	ND
FM-1209-S016-02	7/29/2016	0.8	0.9	Soil	ND	ND	ND	ND	ND	ND
FM-1209-S019-03	7/29/2016	1.8	1.9	Soil	ND	ND	ND	ND	ND	ND
FM-1209-S020-01	7/29/2016	1.8	1.9	Soil	ND	ND	ND	ND	ND	ND
FM-1209-S021-01	7/29/2016	1.8	1.9	Soil	ND	ND	ND	ND	ND	ND
FM-1209-S022-01	7/29/2016	1.8	1.9	Soil	0.052	ND	ND	ND	ND	ND

Table 3
PCB Remediation at Building 1209
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

Analytical Method					EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A
Parameter					Aroclor (Total)	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248
Units					mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RSRS (mg/kg)					0.2	0.2	0.2	0.2	0.2	0.2
NRSRS (mg/kg)					1	1	1	1	1	1
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix						
FM-1209-S013-02	7/29/2016	0.8	0.9	Soil	ND	ND	ND	ND	ND	ND
FM-1209-S004-02	7/29/2016	0.8	0.9	Soil	ND	ND	ND	ND	ND	ND

Notes:

mg/kg

milligrams per kilogram

New Jersey Department of Environmental Protection
Soil Remediation Standards (June 2, 2008)

RSRS

Residential criteria.

New Jersey Department of Environmental Protection
Soil Remediation Standards (June 2, 2008) Non-

NRSRS

Residential criteria.

FD

Field Duplicate

ND

Not Detected

NA

No criterion derived for this constituent.

Detected result less than RSRS and less than NRSRS
criteria shown.

Detected result exceeds RSRS but less than NRSRS
criteria shown.

Detected result exceeds RSRS and exceeds NRSRS
criteria shown.

Table 3
PCB Remediation at Building 1209
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

Analytical Method					EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A
Parameter					Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Units					mg/kg	mg/kg	mg/kg	mg/kg
RSRS (mg/kg)					0.2	0.2	NA	NA
NRSRS (mg/kg)					1	1	NA	NA
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix				
FM-1209-CO04-01	12/18/2015	0	0.04	Concrete	ND	2	ND	ND
FM-1209-CO07-01	12/18/2015	0	0.04	Concrete	ND	1.8	ND	ND
FM-1209-CO08-01	12/18/2015	0	0.04	Concrete	ND	1.8	ND	ND
FM-1209-CO12-01	12/18/2015	0	0.04	Concrete	ND	0.44	ND	ND
FM-1209-CO13-01	12/18/2015	0	0.04	Concrete	ND	3.5	ND	ND
FM-1209-CO16-01	12/18/2015	0	0.04	Concrete	ND	4.7	ND	ND
FM-1209-SO01-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND
FM-1209-SO02-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND
FM-1209-SO03-01	12/18/2015	0.3	0.5	Soil	ND	0.057	ND	ND
FM-1209-SO05-01	12/18/2015	0.3	0.5	Soil	ND	0.053	ND	ND
FM-1209-SO05-02	12/18/2015	0.7	0.8	Soil	ND	ND	ND	ND
FM-1209-SO06-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND
FM-1209-SO09-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND
FM-1209-SO10-01	12/18/2015	0.3	0.5	Soil	ND	0.067	ND	ND
FM-1209-SO11-01	12/18/2015	0.3	0.5	Soil	ND	ND	ND	ND
FM-1209-SO14-01	12/18/2015	0.3	0.5	Soil	ND	0.71	ND	ND
FM-1209-SO14-01 FD	12/18/2015	0.3	0.5	Soil	ND	1.1	ND	ND
FM-1209-SO15-01	12/18/2015	0.3	0.5	Soil	ND	4.3	ND	ND
FM-1209-SO15-02	12/18/2015	0.7	0.8	Soil	ND	0.059	ND	ND
FM-1209-SO17-01	12/18/2015	0.3	0.5	Soil	ND	11	ND	ND
FM-1209-SO17-02	12/18/2015	0.7	0.8	Soil	ND	2.1	ND	ND
FM-1209-SO18-01	12/18/2015	0.3	0.5	Soil	ND	1.6	ND	ND
FM-1209-SO18-01 FD	12/18/2015	0.3	0.5	Soil	ND	1.4	ND	ND
FM-1209-SO19-01	12/18/2015	0.3	0.5	Soil	ND	0.21	ND	ND
FM-1209-SO19-02	12/18/2015	0.7	0.8	Soil	ND	0.071	ND	ND
FM-1209-C071-01	7/27/2016	0.3	0.3	Concrete	ND	0.42	ND	ND
FM-1209-S007-02	7/29/2016	0.8	0.9	Soil	ND	ND	ND	ND
FM-1209-S016-02	7/29/2016	0.8	0.9	Soil	ND	ND	ND	ND
FM-1209-S019-03	7/29/2016	1.8	1.9	Soil	ND	ND	ND	ND
FM-1209-S020-01	7/29/2016	1.8	1.9	Soil	ND	ND	ND	ND
FM-1209-S021-01	7/29/2016	1.8	1.9	Soil	ND	ND	ND	ND
FM-1209-S022-01	7/29/2016	1.8	1.9	Soil	ND	0.052	ND	ND

Table 3
PCB Remediation at Building 1209
Excavation Confirmation PCB Sample Results
Fort Monmouth, New Jersey

					Analytical Method	EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A
					Parameter	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
					Units	mg/kg	mg/kg	mg/kg	mg/kg
					RSRS (mg/kg)	0.2	0.2	NA	NA
					NRSRS (mg/kg)	1	1	NA	NA
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix					
FM-1209-S013-02	7/29/2016	0.8	0.9	Soil	ND	ND	ND	ND	ND
FM-1209-S004-02	7/29/2016	0.8	0.9	Soil	ND	ND	ND	ND	ND

Notes:

mg/kg

milligrams per kilogram

New Jersey Department of Environmental Protection
Soil Remediation Standards (June 2, 2008)

RSRS

Residential criteria.

New Jersey Department of Environmental Protection
Soil Remediation Standards (June 2, 2008) Non-

NRSRS

Residential criteria.

FD

Field Duplicate

ND

Not Detected

NA

No criterion derived for this constituent.



Detected result less than RSRS and less than NRSRS
criteria shown.



Detected result exceeds RSRS but less than NRSRS
criteria shown.



Detected result exceeds RSRS and exceeds NRSRS
criteria shown.

Table 4
PCB Remediation at Building 1209
Compliance Averaging Calculation
Fort Monmouth, New Jersey

Analytical Method					EPA 8082A	EPA 8082A
Parameter					Aroclor (Total)	Aroclor-1260
Units					mg/kg	mg/kg
RSRS (mg/kg)					0.2	0.2
NRSRS (mg/kg)					1	1
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix		
FM-1209-C071-01	7/27/2016	0.3	0.3	Concrete	0.42	0.42
FM-1209-S007-02	7/29/2016	0.8	0.9	Soil	0.015	0.015
FM-1209-S016-02	7/29/2016	0.8	0.9	Soil	0.015	0.015
FM-1209-S019-03	7/29/2016	1.8	1.9	Soil	0.016	0.016
FM-1209-S020-01	7/29/2016	1.8	1.9	Soil	0.015	0.015
FM-1209-S021-01	7/29/2016	1.8	1.9	Soil	0.0155	0.0155
FM-1209-S022-01	7/29/2016	1.8	1.9	Soil	0.052	0.052
FM-1209-S013-02	7/29/2016	0.8	0.9	Soil	0.015	0.015
FM-1209-S004-02	7/29/2016	0.8	0.9	Soil	0.015	0.015
Average of Results					0.0643	0.0643

Notes:

mg/kg

milligrams per kilogram

New Jersey Department of Environmental Protection
Soil Remediation Standards (June 2, 2008)

RSRS

Residential criteria.

New Jersey Department of Environmental Protection
Soil Remediation Standards (June 2, 2008) Non-

NRSRS

Residential criteria.

FD

Field Duplicate

Not Detected, 1/2 detection limit used

NA

No criterion derived for this constituent.

Detected result less than RSRS and less than NRSRS
criteria shown.

Detected result exceeds RSRS but less than NRSRS
criteria shown.

Detected result exceeds RSRS and exceeds NRSRS
criteria shown.

Table 5
PCB Remediation at Building 1209
Excavation Confirmation EPH Sample Results
Fort Monmouth, New Jersey

					Analytical Method	NJEPHRev3B
					Parameter	C9-C40
					Units	mg/kg
					RSRS (mg/kg)	NA
					NRSRS (mg/kg)	NA
Sample ID	Collection Date	Start Depth (ft bgs)	End Depth (ft bgs)	Matrix		
FM-1209-S004-02	7/29/2016	0.8	0.9	Soil	ND	
FM-1209-S007-02	7/29/2016	0.8	0.9	Soil	ND	
FM-1209-S013-02	7/29/2016	0.8	0.9	Soil	ND	
FM-1209-S016-02	7/29/2016	0.8	0.9	Soil	ND	
FM-1209-S019-03	7/29/2016	1.8	1.9	Soil	ND	
FM-1209-S020-01	7/29/2016	1.8	1.9	Soil	ND	
FM-1209-S021-01	7/29/2016	1.8	1.9	Soil	ND	
FM-1209-S022-01	7/29/2016	1.8	1.9	Soil	ND	

Notes:

mg/kg milligrams per kilogram
RSRS New Jersey Department of Environmental Protection Soil Remediation Standards (June 2, 2008) Residential criteria.
NRSRS New Jersey Department of Environmental Protection Soil Remediation Standards (June 2, 2008) Non-Residential criteria.
FD Field Duplicate
ND Not Detected
NA No criterion derived for this constituent.

ATTACHMENT 4

LABORATORY ANALYTICAL REPORTS

Buildings 1208 and 1209 Sample Cross-Reference

Area	Field Sample	Collected	Matrix	Lab Sample ID	Lab SDG
Building 1208	FM-1208-SO01-01	12/18/2015	Soil	AC88851-033	5122106
Building 1208	FM-1208-SO02-01	12/18/2015	Soil	AC88851-035	5122106
Building 1208	FM-1208-SO03-01	12/18/2015	Soil	AC88851-036	5122106
Building 1208	FM-1208-CO04-01	12/18/2015	Concrete	AC88851-038	5122106
Building 1208	FM-1208-SO05-01	12/18/2015	Soil	AC88851-039	5122106
Building 1208	FM-1208-SO06-01	12/18/2015	Soil	AC88851-041	5122106
Building 1208	FM-1208-CO07-01	12/18/2015	Concrete	AC88851-042	5122106
Building 1208	FM-1208-CO08-01	12/18/2015	Concrete	AC88851-043	5122106
Building 1208	FM-1208-SO09-01	12/18/2015	Soil	AC88851-044	5122106
Building 1208	FM-1208-SO10-01	12/18/2015	Soil	AC88851-046	5122106
Building 1208	FM-1208-SO11-01	12/18/2015	Soil	AC88851-048	5122106
Building 1208	FM-1208-CO12-01	12/18/2015	Concrete	AC88851-050	5122106
Building 1208	FM-1208-CO13-01	12/18/2015	Concrete	AC88851-051	5122106
Building 1208	FM-1208-SO14-01	12/18/2015	Soil	AC88851-052	5122106
Building 1208	FM-1208-SO14-01 FD	12/18/2015	Soil	AC88851-053	5122106
Building 1208	FM-1208-SO15-01	12/18/2015	Soil	AC88851-054	5122106
Building 1208	FM-1208-CO16-01	12/18/2015	Concrete	AC88851-058	5122106
Building 1208	FM-1208-SO17-01	12/18/2015	Soil	AC88851-059	5122106
Building 1208	FM-1208-SO18-01	12/18/2015	Soil	AC88851-061	5122106
Building 1208	FM-1208-SO18-01 D	12/18/2015	Soil	AC88851-062	5122106
Building 1208	FM-1208-SO19-01	12/18/2015	Soil	AC88851-063	5122106
Building 1208	FM-1208-S004-01	8/1/2016	Soil	AC92726-001	6080222
Building 1208	FM-1208-S004-01 FD	8/1/2016	Soil	AC92726-002	6080222
Building 1208	FM-1208-S007-01	8/1/2016	Soil	AC92726-003	6080222
Building 1208	FM-1208-S008-01	8/1/2016	Soil	AC92726-004	6080222
Building 1208	FM-1208-S012-01	8/1/2016	Soil	AC92726-007	6080222
Building 1208	FM-1208-S013-01	8/1/2016	Soil	AC92726-008	6080222
Building 1208	FM-1208-S016-01	8/1/2016	Soil	AC92726-009	6080222
Building 1209	FM-1209-SO01-01	12/18/2015	Soil	AC88851-001	5122106
Building 1209	FM-1209-SO02-01	12/18/2015	Soil	AC88851-003	5122106
Building 1209	FM-1209-SO03-01	12/18/2015	Soil	AC88851-004	5122106
Building 1209	FM-1209-CO04-01	12/18/2015	Concrete	AC88851-006	5122106
Building 1209	FM-1209-SO05-01	12/18/2015	Soil	AC88851-007	5122106
Building 1209	FM-1209-SO05-02	12/18/2015	Soil	AC88851-008	5122106
Building 1209	FM-1209-SO06-01	12/18/2015	Soil	AC88851-009	5122106
Building 1209	FM-1209-CO07-01	12/18/2015	Concrete	AC88851-010	5122106
Building 1209	FM-1209-CO08-01	12/18/2015	Concrete	AC88851-011	5122106
Building 1209	FM-1209-SO09-01	12/18/2015	Soil	AC88851-012	5122106
Building 1209	FM-1209-SO10-01	12/18/2015	Soil	AC88851-014	5122106
Building 1209	FM-1209-SO11-01	12/18/2015	Soil	AC88851-016	5122106

Buildings 1208 and 1209 Sample Cross-Reference

Area	Field Sample	Collected	Matrix	Lab Sample ID	Lab SDG
Building 1209	FM-1209-CO12-01	12/18/2015	Concrete	AC88851-018	5122106
Building 1209	FM-1209-CO13-01	12/18/2015	Concrete	AC88851-019	5122106
Building 1209	FM-1209-SO14-01	12/18/2015	Soil	AC88851-020	5122106
Building 1209	FM-1209-SO14-01 FD	12/18/2015	Soil	AC88851-021	5122106
Building 1209	FM-1209-SO15-01	12/18/2015	Soil	AC88851-022	5122106
Building 1209	FM-1209-SO15-02	12/18/2015	Soil	AC88851-025	5122106
Building 1209	FM-1209-CO16-01	12/18/2015	Concrete	AC88851-026	5122106
Building 1209	FM-1209-SO17-01	12/18/2015	Soil	AC88851-027	5122106
Building 1209	FM-1209-SO17-02	12/18/2015	Soil	AC88851-028	5122106
Building 1209	FM-1209-SO18-01	12/18/2015	Soil	AC88851-029	5122106
Building 1209	FM-1209-SO18-01 FD	12/18/2015	Soil	AC88851-030	5122106
Building 1209	FM-1209-SO19-01	12/18/2015	Soil	AC88851-031	5122106
Building 1209	FM-1209-SO19-02	12/18/2015	Soil	AC88851-032	5122106
Building 1209	FM-1209-C071-01	7/27/2016	Concrete	AC92614-002	6072717
Building 1209	FM-1209-S004-02	7/29/2016	Soil	AC92682-001	6080101
Building 1209	FM-1209-S007-02	7/29/2016	Soil	AC92682-002	6080101
Building 1209	FM-1209-S013-02	7/29/2016	Soil	AC92682-003	6080101
Building 1209	FM-1209-S016-02	7/29/2016	Soil	AC92682-004	6080101
Building 1209	FM-1209-S019-03	7/29/2016	Soil	AC92682-005	6080101
Building 1209	FM-1209-S020-01	7/29/2016	Soil	AC92682-006	6080101
Building 1209	FM-1209-S021-01	7/29/2016	Soil	AC92682-007	6080101
Building 1209	FM-1209-S022-01	7/29/2016	Soil	AC92682-008	6080101

HC Report of Analysis

Client: Tetra Tech Inc.

HC Project #: 5122106

Project: Concrete Removal for PCB

Sample ID: FM-1209-SO01-01

Collection Date: 12/18/2015

Lab#: AC88851-001

Receipt Date: 12/21/2015

Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		83

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-SO02-01
Lab#: AC88851-003
Matrix: Soil

Collection Date: 12/18/2015
Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		83

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-SO03-01

Lab#: AC88851-004

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		84

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	0.057
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	0.057
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-CO04-01

Lab#: AC88851-006

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	5	mg/kg	0.13	2
Aroclor-1016	5	mg/kg	0.13	ND
Aroclor-1221	5	mg/kg	0.13	ND
Aroclor-1232	5	mg/kg	0.13	ND
Aroclor-1242	5	mg/kg	0.13	ND
Aroclor-1248	5	mg/kg	0.13	ND
Aroclor-1254	5	mg/kg	0.13	ND
Aroclor-1260	5	mg/kg	0.13	2.0
Aroclor-1262	5	mg/kg	0.13	ND
Aroclor-1268	5	mg/kg	0.13	ND

Sample ID: FM-1209-SO05-01

Lab#: AC88851-007

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		83

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	0.053
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	0.053
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-SO05-02

Lab#: AC88851-008

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		81

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.031	ND
Aroclor-1016	1	mg/kg	0.031	ND
Aroclor-1221	1	mg/kg	0.031	ND
Aroclor-1232	1	mg/kg	0.031	ND
Aroclor-1242	1	mg/kg	0.031	ND
Aroclor-1248	1	mg/kg	0.031	ND
Aroclor-1254	1	mg/kg	0.031	ND
Aroclor-1260	1	mg/kg	0.031	ND
Aroclor-1262	1	mg/kg	0.031	ND
Aroclor-1268	1	mg/kg	0.031	ND

Sample ID: FM-1209-SO06-01

Lab#: AC88851-009

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-CO07-01

Lab#: AC88851-010

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	5	mg/kg	0.13	1.8
Aroclor-1016	5	mg/kg	0.13	ND
Aroclor-1221	5	mg/kg	0.13	ND
Aroclor-1232	5	mg/kg	0.13	ND
Aroclor-1242	5	mg/kg	0.13	ND
Aroclor-1248	5	mg/kg	0.13	ND
Aroclor-1254	5	mg/kg	0.13	ND
Aroclor-1260	5	mg/kg	0.13	1.8
Aroclor-1262	5	mg/kg	0.13	ND
Aroclor-1268	5	mg/kg	0.13	ND

Sample ID: FM-1209-CO08-01

Lab#: AC88851-011

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	5	mg/kg	0.13	1.8
Aroclor-1016	5	mg/kg	0.13	ND
Aroclor-1221	5	mg/kg	0.13	ND
Aroclor-1232	5	mg/kg	0.13	ND
Aroclor-1242	5	mg/kg	0.13	ND
Aroclor-1248	5	mg/kg	0.13	ND
Aroclor-1254	5	mg/kg	0.13	ND
Aroclor-1260	5	mg/kg	0.13	1.8
Aroclor-1262	5	mg/kg	0.13	ND
Aroclor-1268	5	mg/kg	0.13	ND

Sample ID: FM-1209-SO09-01

Lab#: AC88851-012

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		81

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.031	ND
Aroclor-1016	1	mg/kg	0.031	ND
Aroclor-1221	1	mg/kg	0.031	ND
Aroclor-1232	1	mg/kg	0.031	ND
Aroclor-1242	1	mg/kg	0.031	ND
Aroclor-1248	1	mg/kg	0.031	ND
Aroclor-1254	1	mg/kg	0.031	ND
Aroclor-1260	1	mg/kg	0.031	ND
Aroclor-1262	1	mg/kg	0.031	ND
Aroclor-1268	1	mg/kg	0.031	ND

Sample ID: FM-1209-SO10-01

Lab#: AC88851-014

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		80

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.031	0.067
Aroclor-1016	1	mg/kg	0.031	ND
Aroclor-1221	1	mg/kg	0.031	ND
Aroclor-1232	1	mg/kg	0.031	ND
Aroclor-1242	1	mg/kg	0.031	ND
Aroclor-1248	1	mg/kg	0.031	ND
Aroclor-1254	1	mg/kg	0.031	ND
Aroclor-1260	1	mg/kg	0.031	0.067
Aroclor-1262	1	mg/kg	0.031	ND
Aroclor-1268	1	mg/kg	0.031	ND

Sample ID: FM-1209-SO11-01

Lab#: AC88851-016

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-CO12-01

Lab#: AC88851-018

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	0.44
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	0.44
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1209-CO13-01

Lab#: AC88851-019

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		97

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	10	mg/kg	0.26	3.5
Aroclor-1016	10	mg/kg	0.26	ND
Aroclor-1221	10	mg/kg	0.26	ND
Aroclor-1232	10	mg/kg	0.26	ND
Aroclor-1242	10	mg/kg	0.26	ND
Aroclor-1248	10	mg/kg	0.26	ND
Aroclor-1254	10	mg/kg	0.26	ND
Aroclor-1260	10	mg/kg	0.26	3.5
Aroclor-1262	10	mg/kg	0.26	ND
Aroclor-1268	10	mg/kg	0.26	ND

Sample ID: FM-1209-SO14-01

Lab#: AC88851-020

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		81

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.031	0.71
Aroclor-1016	1	mg/kg	0.031	ND
Aroclor-1221	1	mg/kg	0.031	ND
Aroclor-1232	1	mg/kg	0.031	ND
Aroclor-1242	1	mg/kg	0.031	ND
Aroclor-1248	1	mg/kg	0.031	ND
Aroclor-1254	1	mg/kg	0.031	ND
Aroclor-1260	1	mg/kg	0.031	0.71
Aroclor-1262	1	mg/kg	0.031	ND
Aroclor-1268	1	mg/kg	0.031	ND

Sample ID: FM-1209-SO14-01 FD
Lab#: AC88851-021
Matrix: Soil

Collection Date: 12/18/2015
Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		79

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.032	1.1
Aroclor-1016	1	mg/kg	0.032	ND
Aroclor-1221	1	mg/kg	0.032	ND
Aroclor-1232	1	mg/kg	0.032	ND
Aroclor-1242	1	mg/kg	0.032	ND
Aroclor-1248	1	mg/kg	0.032	ND
Aroclor-1254	1	mg/kg	0.032	ND
Aroclor-1260	1	mg/kg	0.032	1.1
Aroclor-1262	1	mg/kg	0.032	ND
Aroclor-1268	1	mg/kg	0.032	ND

Sample ID: FM-1209-SO15-01

Lab#: AC88851-022

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		80

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	10	mg/kg	0.31	4.3
Aroclor-1016	10	mg/kg	0.31	ND
Aroclor-1221	10	mg/kg	0.31	ND
Aroclor-1232	10	mg/kg	0.31	ND
Aroclor-1242	10	mg/kg	0.31	ND
Aroclor-1248	10	mg/kg	0.31	ND
Aroclor-1254	10	mg/kg	0.31	ND
Aroclor-1260	10	mg/kg	0.31	4.3
Aroclor-1262	10	mg/kg	0.31	ND
Aroclor-1268	10	mg/kg	0.31	ND

Sample ID: FM-1209-SO15-01 MS

Lab#: AC88851-023

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		79

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	10	mg/kg	0.32	5.83
Aroclor-1016	10	mg/kg	0.32	0.93
Aroclor-1221	10	mg/kg	0.32	ND
Aroclor-1232	10	mg/kg	0.32	ND
Aroclor-1242	10	mg/kg	0.32	ND
Aroclor-1248	10	mg/kg	0.32	ND
Aroclor-1254	10	mg/kg	0.32	ND
Aroclor-1260	10	mg/kg	0.32	4.9
Aroclor-1262	10	mg/kg	0.32	ND
Aroclor-1268	10	mg/kg	0.32	ND

Sample ID: FM-1209-SO15-01 MS
Lab#: AC88851-024
Matrix: Soil

Collection Date: 12/18/2015
Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		80

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	10	mg/kg	0.31	6.54
Aroclor-1016	10	mg/kg	0.31	0.94
Aroclor-1221	10	mg/kg	0.31	ND
Aroclor-1232	10	mg/kg	0.31	ND
Aroclor-1242	10	mg/kg	0.31	ND
Aroclor-1248	10	mg/kg	0.31	ND
Aroclor-1254	10	mg/kg	0.31	ND
Aroclor-1260	10	mg/kg	0.31	5.6
Aroclor-1262	10	mg/kg	0.31	ND
Aroclor-1268	10	mg/kg	0.31	ND

Sample ID: FM-1209-SO15-02
Lab#: AC88851-025
Matrix: Soil

Collection Date: 12/18/2015
Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		79

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.032	0.059
Aroclor-1016	1	mg/kg	0.032	ND
Aroclor-1221	1	mg/kg	0.032	ND
Aroclor-1232	1	mg/kg	0.032	ND
Aroclor-1242	1	mg/kg	0.032	ND
Aroclor-1248	1	mg/kg	0.032	ND
Aroclor-1254	1	mg/kg	0.032	ND
Aroclor-1260	1	mg/kg	0.032	0.059
Aroclor-1262	1	mg/kg	0.032	ND
Aroclor-1268	1	mg/kg	0.032	ND

Sample ID: FM-1209-CO16-01

Lab#: AC88851-026

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	10	mg/kg	0.26	4.7
Aroclor-1016	10	mg/kg	0.26	ND
Aroclor-1221	10	mg/kg	0.26	ND
Aroclor-1232	10	mg/kg	0.26	ND
Aroclor-1242	10	mg/kg	0.26	ND
Aroclor-1248	10	mg/kg	0.26	ND
Aroclor-1254	10	mg/kg	0.26	ND
Aroclor-1260	10	mg/kg	0.26	4.7
Aroclor-1262	10	mg/kg	0.26	ND
Aroclor-1268	10	mg/kg	0.26	ND

Sample ID: FM-1209-SO17-01

Lab#: AC88851-027

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		84

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	10	mg/kg	0.30	11
Aroclor-1016	10	mg/kg	0.30	ND
Aroclor-1221	10	mg/kg	0.30	ND
Aroclor-1232	10	mg/kg	0.30	ND
Aroclor-1242	10	mg/kg	0.30	ND
Aroclor-1248	10	mg/kg	0.30	ND
Aroclor-1254	10	mg/kg	0.30	ND
Aroclor-1260	10	mg/kg	0.30	11
Aroclor-1262	10	mg/kg	0.30	ND
Aroclor-1268	10	mg/kg	0.30	ND

Sample ID: FM-1209-SO17-02

Lab#: AC88851-028

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		84

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	2.1
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	2.1
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-SO18-01
Lab#: AC88851-029
Matrix: Soil

Collection Date: 12/18/2015
Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		80

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.031	1.6
Aroclor-1016	1	mg/kg	0.031	ND
Aroclor-1221	1	mg/kg	0.031	ND
Aroclor-1232	1	mg/kg	0.031	ND
Aroclor-1242	1	mg/kg	0.031	ND
Aroclor-1248	1	mg/kg	0.031	ND
Aroclor-1254	1	mg/kg	0.031	ND
Aroclor-1260	1	mg/kg	0.031	1.6
Aroclor-1262	1	mg/kg	0.031	ND
Aroclor-1268	1	mg/kg	0.031	ND

Sample ID: FM-1209-SO18-01 FD
Lab#: AC88851-030
Matrix: Soil

Collection Date: 12/18/2015
Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		80

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.031	1.4
Aroclor-1016	1	mg/kg	0.031	ND
Aroclor-1221	1	mg/kg	0.031	ND
Aroclor-1232	1	mg/kg	0.031	ND
Aroclor-1242	1	mg/kg	0.031	ND
Aroclor-1248	1	mg/kg	0.031	ND
Aroclor-1254	1	mg/kg	0.031	ND
Aroclor-1260	1	mg/kg	0.031	1.4
Aroclor-1262	1	mg/kg	0.031	ND
Aroclor-1268	1	mg/kg	0.031	ND

Sample ID: FM-1209-SO19-01
Lab#: AC88851-031
Matrix: Soil

Collection Date: 12/18/2015
Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		81

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.031	0.21
Aroclor-1016	1	mg/kg	0.031	ND
Aroclor-1221	1	mg/kg	0.031	ND
Aroclor-1232	1	mg/kg	0.031	ND
Aroclor-1242	1	mg/kg	0.031	ND
Aroclor-1248	1	mg/kg	0.031	ND
Aroclor-1254	1	mg/kg	0.031	ND
Aroclor-1260	1	mg/kg	0.031	0.21
Aroclor-1262	1	mg/kg	0.031	ND
Aroclor-1268	1	mg/kg	0.031	ND

Sample ID: FM-1209-SO19-02

Lab#: AC88851-032

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		79

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.032	0.071
Aroclor-1016	1	mg/kg	0.032	ND
Aroclor-1221	1	mg/kg	0.032	ND
Aroclor-1232	1	mg/kg	0.032	ND
Aroclor-1242	1	mg/kg	0.032	ND
Aroclor-1248	1	mg/kg	0.032	ND
Aroclor-1254	1	mg/kg	0.032	ND
Aroclor-1260	1	mg/kg	0.032	0.071
Aroclor-1262	1	mg/kg	0.032	ND
Aroclor-1268	1	mg/kg	0.032	ND

Sample ID: FM-1208-SO01-01

Lab#: AC88851-033

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		88

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1208-SO02-01

Lab#: AC88851-035

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		88

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1208-SO03-01

Lab#: AC88851-036

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		88

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1208-CO04-01

Lab#: AC88851-038

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	100	mg/kg	2.6	69
Aroclor-1016	100	mg/kg	2.6	ND
Aroclor-1221	100	mg/kg	2.6	ND
Aroclor-1232	100	mg/kg	2.6	ND
Aroclor-1242	100	mg/kg	2.6	ND
Aroclor-1248	100	mg/kg	2.6	ND
Aroclor-1254	100	mg/kg	2.6	ND
Aroclor-1260	100	mg/kg	2.6	69
Aroclor-1262	100	mg/kg	2.6	ND
Aroclor-1268	100	mg/kg	2.6	ND

Sample ID: FM-1208-SO05-01

Lab#: AC88851-039

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		87

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-SO06-01

Lab#: AC88851-041

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		87

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-CO07-01

Lab#: AC88851-042

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	0.63
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	0.63
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1208-CO08-01

Lab#: AC88851-043

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		97

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	1.3
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	1.3
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1208-SO09-01

Lab#: AC88851-044

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		88

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1208-SO10-01

Lab#: AC88851-046

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-SO11-01

Lab#: AC88851-048

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		88

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1208-CO12-01

Lab#: AC88851-050

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	0.78
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	0.78
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1208-CO13-01

Lab#: AC88851-051

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	0.67
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	0.67
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1208-SO14-01

Lab#: AC88851-052

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		87

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-SO14-01 FD
Lab#: AC88851-053
Matrix: Soil

Collection Date: 12/18/2015
Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-SO15-01

Lab#: AC88851-054

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		87

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-SO15-01 MS

Lab#: AC88851-055

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		88

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	1.34
Aroclor-1016	1	mg/kg	0.028	0.71
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	0.63
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1208-SO15-01 MSD

Lab#: AC88851-056

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		87

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	1.33
Aroclor-1016	1	mg/kg	0.029	0.70
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	0.63
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-C016-01

Lab#: AC88851-058

Matrix: Concrete

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		98

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	0.27
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	0.27
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

Sample ID: FM-1208-SO17-01

Lab#: AC88851-059

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-SO18-01

Lab#: AC88851-061

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-SO18-01 D
Lab#: AC88851-062
Matrix: Soil

Collection Date: 12/18/2015
Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		87

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	0.039
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	0.039
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-SO19-01

Lab#: AC88851-063

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Hampton-Clarke, Inc. (WBE/DBE/SBE)
 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
 Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458
 Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054
 Ph (Service Center): 856-780-6057 Fax: 856-780-6056



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Project Lab Use Only
5122106

Page 1 of 7

3) Reporting Requirements (Please Circle)

Turnaround	Report Type	Electronic Deliv.
When Available:	Data Summary	<u>Hazsite/CSV</u>
1 Business Day (100%)*	Results + QC (Waste)	EnviroData
<u>2 Business Days (75%)*</u>	<u>NJ Reduced</u>	<u>Excel - NJ Regulatory</u>
3 Business Days (50%)*	NY Reduced	Excel - NY Regulatory
4 Business Days (35%)*	PA Reduced	Excel - PA Regulatory
5 Business Days (25%)	Full / Category B	EQuIS (<u>specify below</u>):
10 Business Days (Stand.)	Category A	4-File/EZ/NYS/Reg. 2 or 5
Other:	Electronic (PDF)	Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Tetm Tech
 Address: 1093 Commerce Park Dr. Ste 100
Oak Ridge TN 37880

1b) Email/Cell/Fax/Ph:

1c) Send Invoice to: Mikael.spangberg@tetmatech.com

1d) Send Report to: Maureen.mcmyle@tetmatech.com

Project Information

2a) Project: Concrete Removal for PCB
impacted locations

2b) Project Mgr: Mikael Spangberg

2c) Project Location (City/State): Fl. Monmouth

Oceanport NJ

2d) Quote/PO # (If Applicable): 100-TEU-T33367

FOR LAB
USE
ONLY
↓

Batch #

AC88851

==== Check If Contingent ====

Matrix Codes

DW - Drinking Water S - Soil A - Air
 GW - Ground Water SL - Sludge
 WW - Waste Water OL - Oil
 OT - Other (please specify under item 9, Comments)

Sample
Type

Composite (C)

Grab (G)

5) Matrix Date Time

4) Customer Sample ID

6) Sample

7) Analysis (specify methods & parameter lists)

8) # of Bottles

9) Comments

10) Relinquished by:

Accepted by:

Date Time

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

BN or BNA (8270D SIM)

VOC (8260C SIM or 8011)

SPLP (BN, BNA, Metals)

Check if applicable:

Project-Specific Reporting Limits

High Contaminant Concentrations

NJ LSRP Project (also check boxes above/right)

For NNJ LSRP projects, indicate which standards need to be met:

☐ NJDEP GWQS

☐ NJDEP SRS

☐ NJDEP SPLP

☐ Other (specify):

Additional Notes

11) Sampler (print name):

Date:

Cooler Temperature

Please note NUMBERED items. If not completed your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

Hampton-Clarke, Inc. (WBE/DBE/SBE)175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458

Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054

Ph (Service Center): 856-780-6057 Fax: 856-780-6056



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RECORD**

Project # (Lab Use Only)

5122106

Page 3 of 7

3) Reporting Requirements (Please Circle)**Turnaround****When Available:**

1 Business Day (100%)*

2 Business Days (75%)*

3 Business Days (50%)*

4 Business Days (35%)*

5 Business Days (25%)*

10 Business Days (Stand.)

Other: _____

Report Type

Data Summary

Results + QC (Waste)

NJ Reduced

NY Reduced

PA Reduced

Full / Category B

Category A

Electronic (PDF)

Electronic Deliv.

Hazsite/CSV

EnviroData

Excel - NJ Regulatory

Excel - NY Regulatory

Excel - PA Regulatory

EQulS (specify below):

4-File/EZ/NYS/Reg. 2 or 5

Other: _____

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer:

Tetra Tech

Address:

1093 Commerce Park Dr. Ste 100
Oak Ridge TN 37830

1b) Email/Cell/Fax/Ph:

1c) Send Invoice to:

Mikael.spangberg@tetratech.com

1d) Send Report to:

Maureen.mcmyler@tetratech.com

Project Information

2a) Project:

Concrete Removal for PCB
impacted locations

2b) Project Mgr:

Mikael Spangberg

2c) Project Location (City/State):

Ft. Monmouth

Oceanport NJ

2d) Quote/PO # (If Applicable):

100-TGW-T33367

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ONLY**

Batch #

ACS8851

Matrix Codes

DW - Drinking Water S - Soil A - Air
 GW - Ground Water SL - Sludge
 WW - Waste Water OL - Oil
 OT - Other (please specify under item 9, Comments)

Sample
TypeComposite (C)
Grab (G)

PCB 8082

Lab Sample #

4) Customer Sample ID

5) Matrix

6) Sample
Date TimeComposite (C)
Grab (G)

PCB 8082

020

FM-1209-S014-01

S

12/18/15 1152 hrs

✓

✓

021

FM-1209-S014-01 FD

I

1152 hrs

✓

✓

022

FM-1209-S015-01

I

1158 hrs

✓

✓

023

FM-1209-S015-01

I

1158 hrs

✓

✓

024

FM-1209-S015-02

I

1203 hrs

✓

✓

025

FM-1209-C016-01

OT

0958 hrs

✓

✓

026

FM-1209-S017-01

S

1206 hrs

✓

✓

027

FM-1209-S017-02

I

1210 hrs

✓

✓

028

FM-1209-S018-01

I

1217 hrs

✓

✓

029

FM-1209-S018-01 FD

I

1217 hrs

✓

✓

030

FM-1209-S018-01 FD

I

1217 hrs

✓

✓

7) Analysis (specify methods & parameter lists)

==== Check If Contingent ====

<==== Check If Contingent <====

8)**# of Bottles**

None MeOH En Core NaOH HCl H2SO4 HNO3 Other:

9) Comments

MSMSD

Hold

Concrete

Hold

10) Relinquished by:**Accepted by:**

Date

Time

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

☐ BN or BNA (8270D SIM)
☐ VOC (8260C SIM or 8011)
☐ SPLP (BN, BNA, Metals)

Check if applicable:

☐ Project-Specific Reporting Limits
☐ High Contaminant Concentrations
☐ NJ LSRP Project (also check boxes above/right)

For NNJ LSRP projects, indicate which standards need to be met:

☐ NJDEP GWQS
☐ NJDEP SRS
☐ NJDEP SPLP
☐ Other (specify):

Cooler Temperature

11) Sampler (print name):

Date:

Please note NUMBERED items. If not completed your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

Additional Notes

Hampton-Clarke, Inc. (WBE/DBE/SBE) 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004 Ph: 800-426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458 Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054 Ph (Service Center): 856-780-6057 Fax: 856-780-6056			 CHAIN OF CUSTODY RECORD A Women-Owned, Disadvantaged, Small Business Enterprise			Project # (Lab Use Only) <u>5122106</u> Page <u>5</u> of <u>7</u>								
NELAC/NJ #07071 PA #68-00463 NY #11408 CT #PH-0671 KY #90124 DE HSCA Approved						Reporting Requirements (Please Circle)								
Customer Information 1a) Customer: <u>Tetra Tech</u> Address: <u>1093 Commence Park Dr. Ste 100</u> <u>Oak Ridge TN 37830</u> 1b) Email/Cell/Fax/Ph: 1c) Send Invoice to: <u>Mikael.spangberg@tetratech.com</u> 1d) Send Report to: <u>Mikael.spangberg@tetratech.com</u>			Project Information 2a) Project: <u>Concrete Removal for PCB impacted locations</u> 2b) Project Mgr: <u>Mikael Spangberg</u> 2c) Project Location (City/State): <u>Ft. Monmouth Oceanport N.J.</u> Quote/PO # (If Applicable): <u>100-TEN-T33367</u>			Turnaround When Available: ☒ 1 Business Day (100%)* ☒ Business Days (75%)* ☐ 3 Business Days (50%)* ☐ 4 Business Days (35%)* ☐ 5 Business Days (25%) ☐ 10 Business Days (Stand.) Other: _____			Report Type Data Summary Results + QC (Waste) ☒ NJ Reduced NY Reduced PA Reduced Full / Category B Category A Electronic (PDF) Other: _____			Electronic Deliv. ☒ Hazsite/CSV ☒ EnviroData ☒ Excel - NJ Regulatory Excel - NY Regulatory Excel - PA Regulatory EQulS (<i>specify below</i>): 4-File/EZ/NYS/Reg. 2 or 5 Other: _____		
* Expedited TAT Not Always Available. Please Check with Lab.														

FOR LAB USE ONLY	==== Check If Contingent ====				7) Analysis (specify methods & parameter lists)										<=== Check If Contingent <===											
Batch #	Matrix Codes				Sample Type																					
	DW - Drinking Water	S - Soil	A - Air		Composite (C)	Grab (G)																				
	GW - Ground Water	SL - Sludge																								
	WW - Waste Water OL - Oil																									
	OT - Other (please specify under item 9, Comments)																									
Lab Sample #	4) Customer Sample ID	5) Matrix	6) Sample		Composite (C)	Grab (G)	8) # of Bottles										Other:	9) Comments								
			Date	Time			None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3													
041	FM-1208-S006-01	S	12/18/15	1722	hrs	✓	✓																			
042	FM-1208-C007-01	OT		1549	hrs	✓	✓												Concrete							
043	FM-1208-C008-01	OT		1634	hrs	✓	✓												Concrete							
044	FM-1208-S009-01	S		1725	hrs	✓	✓																			
045	FM-1208-S009-02			1728	hrs	✓	✓												Hold							
046	FM-1208-S010-01			1734	hrs	✓	✓																			
047	FM-1208-S010-02			1737	hrs	✓	✓												Hold							
048	FM-1208-S011-01			1741	hrs	✓	✓																			
049	FM-1208-S011-02			1744	hrs	✓	✓												Hold							
050	FM-1208-C012-01	OT		1601	hrs	✓	✓												Concrete							

10) Relinquished by:		Accepted by:		Date	Time	Comments, Notes, Special Requirements, HAZARDS			
<u>Rob Rolon</u>		<u>[Signature]</u>		<u>12/18/15</u>	<u>2100 hrs</u>	Indicate if low-level methods required to meet current groundwater standards (SPLP for soil): ☐ BN or BNA (8270D SIM) ☐ VOC (8260C SIM or 8011) ☐ SPLP (BN, BNA, Metals) Check if applicable: ☐ Project-Specific Reporting Limits ☐ High Contaminant Concentrations ☐ NJ LSRP Project (also check boxes above/right)			
<u>[Signature]</u>		<u>[Signature]</u>		<u>12/4/15</u>	<u>9:30</u>				
						For NNJ LSRP projects, indicate which standards need to be met: ☐ NJDEP GWQS ☐ NJDEP SRS ☐ NJDEP SPLP ☐ Other (specify): _____			
						Cooler Temperature			

Additional Notes

11) Sampler (print name): _____ Date: _____

Please note NUMBERED items. If not completed your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

Cooler Temperature

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Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054

Ph (Service Center): 856-780-6057 Fax: 856-780-6056



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Project # (Lab Use Only)

5122106

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Reporting Requirements (Please Circle)**Turnaround**

When Available:

1 Business Day (100%)*

2 Business Days (75%)*

3 Business Days (50%)*

4 Business Days (35%)*

5 Business Days (25%)

10 Business Days (Stand.)

Other:

Report Type

Data Summary

Results + QC (Waste)

NJ Reduced

NY Reduced

PA Reduced

Full / Category B

Category A

Electronic (PDF)

Electronic Deliv.Hazsite/CSV

EnviroData

Excel - NJ Regulatory

Excel - NY Regulatory

Excel - PA Regulatory

EQuIS (specify below):

4-File/EZ/NYS/Reg. 2 or 5

Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer:

Tetra Tech

Address:

1093 Commerce Park Dr. Ste 100

Oak Ridge TN 37830

1b) Email/Cell/Fax/Ph:

1c) Send Invoice to:

1d) Send Report to:

Mikael.spangberg@tetratech.com

Maurice.mcmillan@tetratech.com

Project Information

2a) Project:

Concrete Removal for PCB
impacted locations

2b) Project Mgr:

Mikael Spangberg

2c) Project Location (City/State):

Ft. Monmouth

Oceanport N.J.

Quote/PO # (If Applicable):

100-TEU-T3307

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Batch #

AC8885

Lab Sample #

4) Customer Sample ID

5) Matrix

6) Sample

Date

Time

Composite (C)

Grab (G)

Sample
Type

Matrix Codes

DW - Drinking Water S - Soil A - Air

GW - Ground Water SL - Sludge

WW - Waste Water OL - Oil

OT - Other (please specify under item 9, Comments)

7) Analysis (specify methods & parameter lists)

==== Check If Contingent ====

<==== Check If Contingent <====

8)

of Bottles

None	MeOH	En Core	NaOH	HCl	H2SO4	HNO3	Other:
1							
1							
1							

9) Comments

Field Duplicate

Hold

10) Relinquished by:

Accepted by:

Date

Time

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

☐ BN or BNA (8270D SIM)

☐ VOC (8260C SIM or 8011)

☐ SPLP (BN, BNA, Metals)

Check if applicable:

☐ Project-Specific Reporting Limits

☐ High Contaminant Concentrations

☐ NJ LSRP Project (also check boxes above/right)

For NNJ LSRP projects, indicate which standards need to be met:

☐ NJDEP GWQS

☐ NJDEP SRS

☐ NJDEP SPLP

☐ Other (specify):

Cooler Temperature

Additional Notes

11) Sampler (print name):

Date:

Please note NUMBERED items. If not completed your analytical work may be delayed.

A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

Sample ID: FM-1209-C071-01

Lab#: AC92614-002

Matrix: Concrete

Collection Date: 7/27/2016

Receipt Date: 7/27/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		95

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.026	0.42
Aroclor-1016	1	mg/kg	0.026	ND
Aroclor-1221	1	mg/kg	0.026	ND
Aroclor-1232	1	mg/kg	0.026	ND
Aroclor-1242	1	mg/kg	0.026	ND
Aroclor-1248	1	mg/kg	0.026	ND
Aroclor-1254	1	mg/kg	0.026	ND
Aroclor-1260	1	mg/kg	0.026	0.42
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

6072717 0009

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004

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CHAIN OF CUSTODY RECORD

Project # (Lab Use Only)

6072717

Page 1 of 1

3) Reporting Requirements (Please Circle)

Turnaround

Report Type

Electronic Deliv.

When Available:

Data Summary

Hazsite/CSV

1 Business Day (100%)*

Results + QC (Waste)

EnviroData

2 Business Days (75%)*

NJ Reduced

Excel - NJ Regulatory

3 Business Days (50%)*

NY Reduced

Excel - NY Regulatory

4 Business Days (35%)*

PA Reduced

Excel - PA Regulatory

5 Business Days (25%)*

Full / Category B

EQuIS (specify below):

10 Business Days (Stand.)

Category A

4-File/EZ/NYS/Reg. 2 or 5

Other:

Electronic (PDF)

Other:

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Tetra Tech

Address: 1093 Commerce Park Dr. Ste 100

Oak Ridge TN 37830

1b) Email/Cell/Fax/Ph: Rob 407-448-9553

1c) Send Invoice to: Maureen McKyer 865-220-4762

1d) Send Report to: Maureen McKyer

Project Information

2a) Project: Fort Monmouth

Parcel 97 (Bldg. 978)

2b) Project Mgr: Mikael Spangberg

2c) Project Location (City/State): Ft. Monmouth

NJ

2d) Quote/PO # (If Applicable): 4817

FOR LAB
USE
ONLY
↓

Batch #

Ac92614

Lab Sample #

4) Customer Sample ID

5) Matrix

6) Sample

Date

Time

Sample
Type

Composite (C)

Grab (G)

DW - Drinking Water S - Soil A - Air

GW - Ground Water SL - Sludge

WW - Waste Water OL - Oil

OT - Other (please specify under item 9, Comments)

FM-P97-SW 70-01 S 7/27/16 0903
FM-1209-C 071-01 OT 7/27/16 1028

Last Entry

KR

7/27/16

7) Analysis (specify methods & parameter lists)

<==== Check If Contingent <====

8)

of Bottles

None MeOH En Core NaOH HCl H2SO4 HNO3 Other:

9) Comments

Boring S 048 South Hill
Concrete chips East Hill

10) Relinquished by:

Accepted by:

Date

Time

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

BN or BNA (8270D SIM)
VOC (8260C SIM or 8011)
SPLP (BN, BNA, Metals)

Check if applicable:

Project-Specific Reporting Limits
High Contaminant Concentrations
NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:

☐ NJDEP GWQS
☐ NJDEP SRS
☐ NJDEP SPLP
☐ Other (specify):

Cooler Temperature

2.7

11) Sampler (print name):

Date:

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

Additional Notes

HC Report of Analysis

Client: Tetra Tech Inc.**HC Project #:** 6080101**Project:** Fort Monmouth Bldg 1209**Sample ID:** FM-1209-S004-02**Collection Date:** 7/29/2016**Lab#:** AC92682-001**Receipt Date:** 8/1/2016**Matrix:** Soil**% Solids SM2540G**

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	73	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-S007-02

Lab#: AC92682-002

Matrix: Soil

Collection Date: 7/29/2016

Receipt Date: 8/1/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	73	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-S013-02

Lab#: AC92682-003

Matrix: Soil

Collection Date: 7/29/2016

Receipt Date: 8/1/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		83

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	72	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-S016-02

Lab#: AC92682-004

Matrix: Soil

Collection Date: 7/29/2016

Receipt Date: 8/1/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	73	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-S019-03
Lab#: AC92682-005
Matrix: Soil

Collection Date: 7/29/2016
Receipt Date: 8/1/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		79

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	76	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.032	ND
Aroclor-1016	1	mg/kg	0.032	ND
Aroclor-1221	1	mg/kg	0.032	ND
Aroclor-1232	1	mg/kg	0.032	ND
Aroclor-1242	1	mg/kg	0.032	ND
Aroclor-1248	1	mg/kg	0.032	ND
Aroclor-1254	1	mg/kg	0.032	ND
Aroclor-1260	1	mg/kg	0.032	ND
Aroclor-1262	1	mg/kg	0.032	ND
Aroclor-1268	1	mg/kg	0.032	ND

Sample ID: FM-1209-S020-01

Lab#: AC92682-006

Matrix: Soil

Collection Date: 7/29/2016

Receipt Date: 8/1/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	73	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	ND
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	ND
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

Sample ID: FM-1209-S021-01

Collection Date: 7/29/2016

Lab#: AC92682-007

Receipt Date: 8/1/2016

Matrix: Soil

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		81

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	74	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.031	ND
Aroclor-1016	1	mg/kg	0.031	ND
Aroclor-1221	1	mg/kg	0.031	ND
Aroclor-1232	1	mg/kg	0.031	ND
Aroclor-1242	1	mg/kg	0.031	ND
Aroclor-1248	1	mg/kg	0.031	ND
Aroclor-1254	1	mg/kg	0.031	ND
Aroclor-1260	1	mg/kg	0.031	ND
Aroclor-1262	1	mg/kg	0.031	ND
Aroclor-1268	1	mg/kg	0.031	ND

Sample ID: FM-1209-S022-01

Lab#: AC92682-008

Matrix: Soil

Collection Date: 7/29/2016

Receipt Date: 8/1/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		82

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	73	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.030	0.052
Aroclor-1016	1	mg/kg	0.030	ND
Aroclor-1221	1	mg/kg	0.030	ND
Aroclor-1232	1	mg/kg	0.030	ND
Aroclor-1242	1	mg/kg	0.030	ND
Aroclor-1248	1	mg/kg	0.030	ND
Aroclor-1254	1	mg/kg	0.030	ND
Aroclor-1260	1	mg/kg	0.030	0.052
Aroclor-1262	1	mg/kg	0.030	ND
Aroclor-1268	1	mg/kg	0.030	ND

HC Report of Analysis

Client: Tetra Tech Inc.
Project: Fort Monmouth Bldg 1208

HC Project #: 6080222

Sample ID: FM-1208-S004-01
Lab#: AC92726-001
Matrix: Soil

Collection Date: 8/1/2016
Receipt Date: 8/2/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		88

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	68	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1208-S004-01 FD

Lab#: AC92726-002

Matrix: Soil

Collection Date: 8/1/2016

Receipt Date: 8/2/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		88

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	68	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	ND
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1208-S007-01

Lab#: AC92726-003

Matrix: Soil

Collection Date: 8/1/2016

Receipt Date: 8/2/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		87

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	69	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	0.038
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	0.038
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-S008-01

Lab#: AC92726-004

Matrix: Soil

Collection Date: 8/1/2016

Receipt Date: 8/2/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	70	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-S008-01 MS
Lab#: AC92726-005
Matrix: Soil

Collection Date: 8/1/2016

Receipt Date: 8/2/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	70	360

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	1.3
Aroclor-1016	1	mg/kg	0.029	0.64
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	0.63
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-S008-01 MSD

Lab#: AC92726-006

Matrix: Soil

Collection Date: 8/1/2016

Receipt Date: 8/2/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	70	330

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	1.2
Aroclor-1016	1	mg/kg	0.029	0.62
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	0.62
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-S012-01

Lab#: AC92726-007

Matrix: Soil

Collection Date: 8/1/2016

Receipt Date: 8/2/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		88

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	68	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	0.037
Aroclor-1016	1	mg/kg	0.028	ND
Aroclor-1221	1	mg/kg	0.028	ND
Aroclor-1232	1	mg/kg	0.028	ND
Aroclor-1242	1	mg/kg	0.028	ND
Aroclor-1248	1	mg/kg	0.028	ND
Aroclor-1254	1	mg/kg	0.028	ND
Aroclor-1260	1	mg/kg	0.028	0.037
Aroclor-1262	1	mg/kg	0.028	ND
Aroclor-1268	1	mg/kg	0.028	ND

Sample ID: FM-1208-S013-01

Lab#: AC92726-008

Matrix: Soil

Collection Date: 8/1/2016

Receipt Date: 8/2/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	70	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-S016-01

Lab#: AC92726-009

Matrix: Soil

Collection Date: 8/1/2016

Receipt Date: 8/2/2016

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86

NJ EPH Category 2

Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	70	ND

PCB 8082

Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

6080222 0017

Hampton-Clarke, Inc. (WBE/DBE/SBE)

175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004

Ph: 800-426-9992 | 973-244-9770 Fax: 973-244-9787 | 973-439-1458

Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054

Ph (Service Center): 856-780-6057 Fax: 856-780-6056

HC

Hampton-Clarke

WBE/DBE/SBE 800-426-9992

CHAIN OF CUSTODY

RECORD

Project # (Lab Use Only)

6080222

Page

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of

1

3) Reporting Requirements (Please Circle)

Turnaround

When Available:

1 Business Day (100%)*

2 Business Days (75%)*

3 Business Days (50%)*

4 Business Days (35%)*

5 Business Days (25%)

10 Business Days (Stand.)

Other:

Report Type

Data Summary

Results + QC (Waste)

NJ Reduced

NY Reduced

PA Reduced

Full / Category B

Category A

Electronic (PDF)

Electronic Deliv.

Hazsite/CSV

EnviroData

Excel - NJ Regulatory

Excel - NY Regulatory

Excel - PA Regulatory

EQUIS (specify below):

4-File/EZ/NYS/Reg. 2 or 5

Other: PDF

* Expedited TAT Not Always Available. Please Check with Lab.

Customer Information

1a) Customer: Tetra Tech

Address: 1093 Commerce Park Dr. Ste 100

Oak Ridge TN 37830

1b) Email/Cell/Fax/Ph: RJB 401-448-9553

1c) Send Invoice to: Maureen McMyler 865-220-4762

1d) Send Report to: Maureen McMyler

Project Information

2a) Project: Ft. Monmouth

Bldg. 1208

2b) Project Mgr: Mikael Spangberg

2c) Project Location (City/State): Ft. Monmouth NJ

2d) Quote/PO # (If Applicable): 4817

FOR LAB USE ONLY

Batch # AC92726

==== Check If Contingent ====

Matrix Codes

DW - Drinking Water S - Soil A - Air

GW - Ground Water SL - Sludge

WW - Waste Water OL - Oil

OT - Other (please specify under item 9, Comments)

Sample Type

Composite (C)

Grab (G)

7) Analysis (specify methods & parameter lists)

PCB 8082 3-day TAT (m)

NJ EPH Cat 2 SL TAT (m)

PAH 8270 (Hold)

8) # of Bottles

None

MeOH

En Core

NaOH

HCl

H2SO4

HNO3

Other:

9) Comments

5) Matrix

6) Sample

4) Customer Sample ID

Date

Time

Lab Sample #

FM-1208-S004-01

S

8/1/16

0810

-001

FM-1208-S004-01 FD

S

0810

-002

FM-1208-S007-01

S

0838

-003

FM-1208-S008-01

S

0823

-004

FM-1208-S008-01 MS/MSD

S

0823

005/006

FM-1208-S012-01

S

0847

007

FM-1208-S013-01

S

0831

008

FM-1208-S016-01

S

*

0855

009

10) Relinquished by:

Accepted by:

Date

Time

Comments, Notes, Special Requirements, HAZARDS

Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):

BN or BNA (8270D SIM)

VOC (8260C SIM or 8011)

SPLP (BN, BNA, Metals)

Check if applicable:

Project-Specific Reporting Limits

High Contaminant Concentrations

NJ LSRP Project (also check boxes above/right)

For NJ LSRP projects, indicate which standards need to be met:

NJDEP GWQS

NJDEP SRS

NJDEP SPLP

Other (specify):

Additional Notes

Note: FM-1208 S008-01 is MS/MSD for PCB & EPH Cat 2

DTW

8/2/16

11) Sampler (print name):

Date:

Cooler Temperature

Please note NUMBERED items. If not completed your analytical work may be delayed.

A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.

ATTACHMENT 5

**NEW JERSEY REQUIRMENTS FOR SOIL COMPLIANCE AVERAGING
N.J.A.C. 7:26E-4.9(c)3i**

Governor Chris Christie • Lt. Governor Kim Guadagno

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[Spring 1995 \(Vol 7 NO 2\)](#)
[Article 08](#)

Compliance Averaging

By: Brian J. Sogorka,
[Bureau of Environmental Evaluation & Risk Assessment](#)

The average contaminant concentration in an area of concern may be used to determine compliance with remediation standards or the [Soil Cleanup Criteria](#) rather than the contaminant concentration of individual samples. This approach is called "compliance averaging." An article describing the department's policies on compliance averaging appeared in the November 1993 *Site Remediation News*. The department's policy on the use of the multiplication factors has been modified (see item [4d below](#)) and new policies have been added (see [items 5, 6 and 7 below](#)). The department's current requirements for using compliance averaging are described below.

To minimize the impact of the new policy described in 4d below on sites currently undergoing remediation, this policy will not be effective until July 1, 1995, except as follows. Remedial action workplans approved before the effective date need not comply with the new guidance, subject to case by case review by the department. However, remediation, including sampling or cleanup activities, conducted prior to the effective date of the guidance without remedial action workplan approval will be evaluated by the department for substantial compliance with the new guidance. Any questions regarding implementation of the department's guidance should be directed to your Case Manager.

1. Compliance averaging can only be used after a remedial investigation has been completed which fully delineates the nature and extent of the contamination present. See [N.J.A.C. 7:26E, the Technical Requirements for Site Remediation](#) (Technical Rules), Subchapter 4 for the requirements of a remedial investigation.

It is not appropriate to use compliance averaging based upon the information obtained in a site investigation. The objective of a site investigation is to determine if contamination is present above any applicable remediation standards or Soil Cleanup Criteria. Sample locations used during the site investigation must be biased to the suspected location of greatest contamination and therefore, results cannot be averaged. If such biased samples are contaminated above any applicable remediation standards or Soil Cleanup Criteria, then contaminant delineation in a remedial investigation is required.

2. The Technical Rules, at N.J.A.C. 7:26E-4.9(c)3i, specify certain requirements for averaging data:
 - a. The arithmetic mean must be used to calculate the average contaminant concentration;
 - b. One-half of the method detection limit for non-detectable results from samples which have not been diluted must be used to calculate the average contaminant concentration. Any estimated values (also known as "J" values) must be used "as reported" to calculate the average contaminant concentration;
 - c. Non-detectable results for samples which have been diluted may not be used to calculate the average contaminant concentration;
 - d. The requirement at 4.9(c)3i(5) excludes from compliance averaging any samples from a "clean" buffer zone identified around a contaminated area. A suspected area of concern is often reduced or expanded based on remedial investigation delineation sampling and only samples which lie within the modified area of concern (excluding clean zones) can be utilized for compliance averaging (see [Figure 1](#));
 - e. The requirement at 4.9(c)3i(5) also specifies that samples from different depth intervals may not be averaged together to determine compliance. However, under certain circumstances it may be appropriate to average data for two or more vertical sample increments. For example, if only the "Impact to Ground Water" Soil Cleanup Criteria are driving the cleanup, it may be appropriate, based on site specific conditions, to average data for two or more vertical sample increments. If a "direct contact" Soil Cleanup Criterion is driving the cleanup but the soil is unlikely to be disturbed (for example, beneath a building or greater than ten feet deep), it may also be appropriate to average data for two or more vertical sample increments. Such requests require a variance decision pursuant to N.J.A.C. 7:26E-1.6(d).

3. Samples exceeding the 10,000 ppm total organic limit or the 1,000 ppm total volatile organic limit cannot be averaged for compliance because these samples represent "gross" contaminant levels and, therefore, no samples may exceed these limits.
4. There is a limit on the maximum allowable concentration for individual samples when compliance averaging through the application of a multiplication factor which is applied to the Soil Cleanup Criterion or health based criterion, whichever is lower (see item [4d below](#) for more details). The multiplication factors vary depending on the specific Soil Cleanup Criterion. No single sample can exceed the applicable Soil Cleanup Criteria for a specific contaminant as follows:
 - a. If the Soil Cleanup Criterion is 10 ppm or less, then individual soil samples cannot exceed the Soil Cleanup Criterion by more than a factor of 10 or 50 ppm (ceiling level), whichever is less;
 - b. If the applicable Soil Cleanup Criterion is greater than 10 ppm but less than or equal to 100 ppm, then individual soil samples cannot exceed the Soil Cleanup Criterion by more than a factor of 5 or 200 ppm (ceiling level), whichever is less;
 - c. If the applicable Soil Cleanup Criterion is greater than 100 ppm, then individual soil samples cannot exceed the Soil Cleanup Criterion by more than a factor of 2.

- d. The department's guidance, as described in the November 1993 *Site Remediation News*, was to apply the multiplication factors to the Soil Cleanup Criteria. However, the department's current guidance is to apply the factors to health based criteria, not Soil Cleanup Criteria which are based on natural background or practical quantitation levels (PQLs). The department believes that applying the multiplication factors to health based criteria is more consistent with the intent of the factors, that is, to limit exposure to high concentrations of the contaminant. This change in guidance has the following implications:

1) Elimination of the option to average for *arsenic and thallium*:

The 20 ppm Soil Cleanup Criterion for arsenic is based on natural background which is already 50 times higher than the health based number for arsenic (0.4 ppm). Therefore, allowing individual samples to exceed the Soil Cleanup Criterion would not be appropriate unless a site specific remediation standard was developed.

Exceedances of the 20 ppm arsenic criterion due to natural background conditions would not require cleanup but would require a site specific remediation standard to document that local natural background was greater than 20 ppm.

The 2 ppm Soil Cleanup Criterion for thallium is based on a PQL but the health based number is zero. Therefore, averaging is not appropriate. Exceedances of the 2 ppm thallium criterion would require a site specific remediation standard.

2) More stringent compliance criteria for *benzo(a)pyrene and dibenz(a,h)anthracene*:

The 0.66 ppm Soil Cleanup Criteria for these compounds are based on a PQL which is approximately 7 times higher than the health based number (0.09 ppm). Applying the 10x factor to 0.09 ppm means that, when averaging is applied, no sample may exceed 0.9 ppm.

3) More stringent compliance criteria for *beryllium*:

The 1 ppm Soil Cleanup Criterion for beryllium is based on a PQL which is 5 times higher than the health based number (0.2 ppm). Applying the 10x factor to 0.2 ppm means that, when averaging is applied, no sample may exceed 2 ppm.

4) Other contaminants affected by this policy are *bis(2-chloroethyl)ether, hexachlorobenzene, and N-nitrosodipropylamine*. As these contaminants are not commonly encountered in site remediation, the department should be contacted on a case specific basis to address any compliance averaging issues.

5. The Soil Cleanup Criteria for PCBs are based on the total PCB concentration of the sample. As there is no standard laboratory protocol for reporting and averaging total PCBs, the department uses the following approach:

To calculate total PCBs for an individual sample, add together any "hits" for the individual Aroclors. If there are no "hits", report the highest method detection limit as the total PCB method detection limit. When averaging total PCB data for two or more samples, first calculate total PCBs for each sample as above, then apply the applicable averaging requirements described in this article.

6. The department has found that strict adherence to the Soil Cleanup Criteria is sometimes overly conservative for small areas of moderately contaminated soil. In general, the smaller the area of contamination, the less likely it is that there will be significant exposure to the contaminants. In addition, if the contamination is at depth in the soil column (two feet below ground surface or deeper), the potential for exposure is even further reduced. It is usually not possible to use compliance averaging for such isolated areas of contamination because it is not permissible to average clean zone samples with the contaminated area samples.

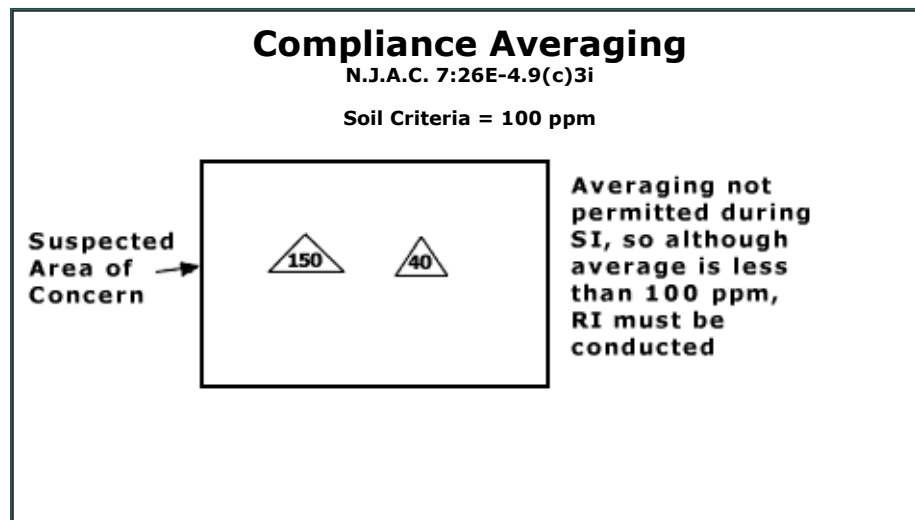
Therefore, the following approach may be used if, after completion of a remedial investigation, contaminated soils at an area of concern are not in compliance with a Soil Cleanup Criterion after averaging, but the data indicate that there is only a de minimis amount of contaminated soil. The department will consider "no further action" proposals without environmental restrictions if all the following criteria are met:

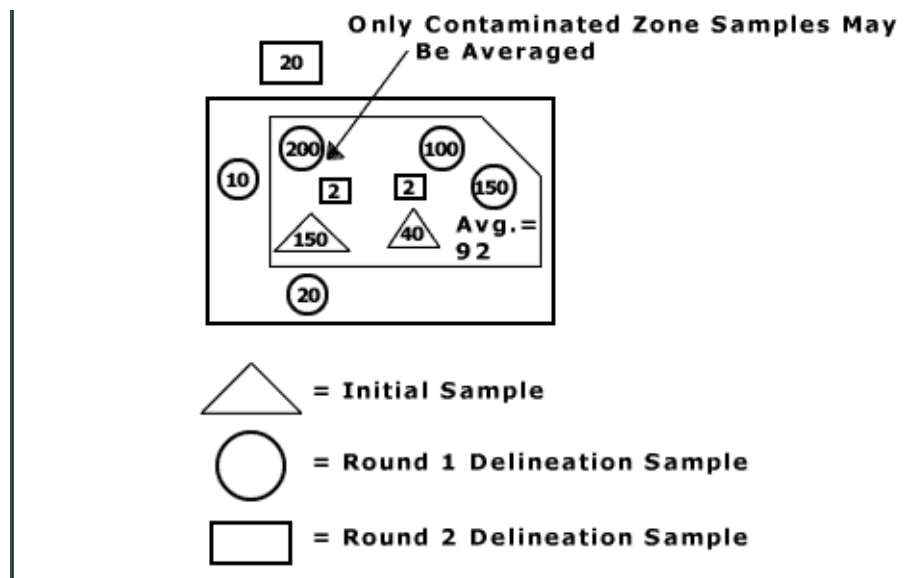
- a. Contaminant levels are "moderate"; that is, below the multiplication factor limits or ceiling levels, and below the 10,000 ppm total organic limit and the 1,000 ppm total volatile organic limit;
- b. Since the multiplication factor limits are applied to health-based numbers, the restrictions applicable to averaging also apply to de minimis exemptions. Therefore, the de minimis exemption cannot be applied to arsenic or thallium contamination;
- c. Sample data document that there is only a de minimis amount of contaminated soil remaining in the area of concern. In general, a de minimis area of contaminated soil is considered to be a six inch layer of soil over a ten foot radius. In addition, only contaminated soil at two or more feet below ground surface will be considered for this exemption. Considering the depth and the limited areal extent of the contaminants, direct soil exposure is expected to be relatively infrequent.

It may sometimes be acceptable to apply the de minimis exemption to larger areas as well, but this should be reviewed on a site specific basis. Exception decisions should consider such factors as contaminant concentration, the volume of contaminated soil, and the size of the area where exposure to the contaminants may occur. For example, assume that the Soil Cleanup Criterion is 5 ppm, the isolated "hit" is 6 ppm, and the "clean zone" is 20 feet away. In this situation, although the de minimis criteria above have not been met, the de minimis exemption might still be appropriate because the contamination is present at a concentration only slightly above the Soil Cleanup Criterion.

- d. An evaluation of the contaminant mass, persistence and location indicates limited potential for significant human health or environmental impacts, including ground water impacts; and
 - e. There can be only one de minimis exemption per area of concern.
7. Sample results for contaminated soil remaining in an area of concern may be averaged after remedial actions when soils have been excavated or otherwise permanently remediated if the following conditions are met:
- a. Data from clean fill used to replace contaminated soils in the area of concern cannot be included to calculate the average;
 - b. Sidewall sample data from excavated areas may be used in the average if sample data from the same six inch depth increment are averaged; and
 - c. Post remediation bottom sample data may be averaged with other sample data from the same six-inch depth increment.

Figure 1





To report an environmental incident impacting NJ, call the Toll-Free 24-Hour Hotline
1-877-WARNDEP / 1-877-927-6337

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Last Updated: August 15, 2013

ATTACHMENT 6

WASTE DISPOSAL DOCUMENTATION

**FREEHOLD CARTAGE INC.**P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924**BILL OF LADING**
FCI EPA ID NO. NJD054126164**S 595163**350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fax: (302) 658-6229175 Bartow Mun. Airport
Bartow, FL 33830
Phone: (863) 533-4599
Fax: (863) 533-16135533 Dunham Road
Maple Heights, OH 44137
Phone: (330) 835-3473
Fax: (330) 835-3732108 Monahan Avenue
Dunmore, PA 18512
Phone: (570) 342-7232
Fax: (570) 342-7367132 Myrtle Beach Hwy.
Sumter, SC 29153
Phone: (803) 773-2611
Fax: (803) 773-2942

SHIPPER NAME/ADDRESS <i>Removal</i>		PHONE		APPOINTMENT TIME 15:00	
		(AREA CODE)			
TRACTOR 19C		TRAILER 4105			
FCI REP. LOADING (PRINT) <i>Removal</i>	PROCEDURE <i>Removal</i>	EQUIP. SPOTTED —	EQUIP. REMOVED <i>1970</i>	TIME AT SHIPPER 12:45	(MILITARY TIME ONLY)
				ARRIVAL TIME	DEPARTURE TIME
COMMENTS OR DELAYS AT SHIPPER <i>Subcontract Lead not coming till 2nd when I can not do it</i>				EQUIPMENT USED —	

BROKER:		MANIFEST / DOCUMENT NO.
PO #:	WO #:	

(X) HM	PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
1	<i>Selenium dust</i>	<i>9</i>	<i>34132</i>	<i>III</i>	<i>1</i>	<i>cm</i>	<i>20</i>	<i>g</i>		
2										
3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER.

SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.

Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.

PLEASE PRINT NAME/TITLE <i>Bill McInnis, Asst. Supervisor</i>	SHIPPER'S SIGNATURE <i>[Signature]</i> X I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.	DATE LOADED <i>07/02/16</i> MO. DAY YR.
--	--	---

CONSIGNEE NAME/ADDRESS <i>Bill McInnis MI</i>		PHONE		APPOINTMENT TIME	
		(AREA CODE)			
TRACTOR		TRAILER			
FCI REP. UNLOADING (PRINT)	PROCEDURE <i>Dump</i>	EQUIP. SPOTTED	EQUIP. REMOVED	TIME AT CONSIGNEE	(MILITARY TIME ONLY)
				ARRIVAL TIME	DEPARTURE TIME
COMMENTS OR DELAYS AT CONSIGNEE				EQUIPMENT USED	

PLEASE PRINT NAME/TITLE	CONSIGNEE SIGNATURE X	DATE UNLOADED / / MO. DAY YR.
-------------------------	--------------------------	-------------------------------------

AR H-0257	MD HWH-167	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	2001-OPV-2335	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203	ME ME-HWT-47	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
DE-SW-203	ME-WOT-47	NJ S-2265	PA PA-AH-0067	
IL UPW-0190713-OH	MI UPW-0190713-OH	15939	QUEBEC, CANADA QC-6ML-047	
MA MA-294	MN UPW-0190713-OH	NY NJ-113	RI RI-535	

White - FCI Original
Yellow - FCI Billing
Blue - FCI Office/Customer
Green - Retained by TSDF
Gold - Retained by Generator**S 595163**

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number NJ0210020507	2. Page 1 of 1	3. Emergency Response Phone 732-613-1000	4. Manifest Tracking Number 001871775 FLE	
5. Generator's Name and Mailing Address US Dept of Army Fort Monmouth - Main Post P.O. Box 140 Oceanport, NJ 07757			Generator's Site Address (if different than mailing address) Main Post Fort Monmouth, NJ 07703			
Generator's Phone:						
6. Transporter 1 Company Name Frederick Carriage, Inc.			U.S. EPA ID Number NR0054174104			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Wayne Disposal, Inc. 5000 Landon 49350 N. 104 Service Drive Belleville, MI 48111			U.S. EPA ID Number MI004090633			
Facility's Phone: 800-502-5489						
GENERATOR	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
			No.	Type		
	X	1. RC, UN-3432, Polychlorinated Biphenyls, Solid, Molten, Class 2 PG II EPCW 171	XXI	C64		7
		2.				
		3.				
		4.				
13. Waste Codes						
14. Special Handling Instructions and Additional Information 115018SWCH PCB Soil & Concrete AWI PO. # 14485-MP						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offor's Printed/Typed Name MATHEN CRANER			Signature 		Month 02	Day 02
					Year 16	
TRANSPORTER	16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: _____					
	Transporter signature (for exports only): _____ Date leaving U.S.: _____					
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name			Signature		Month	Day
Transporter 2 Printed/Typed Name			Signature		Month	Day
DESIGNATED FACILITY	18. Discrepancy					
	18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
	Manifest Reference Number: _____					
	18b. Alternate Facility (or Generator)			U.S. EPA ID Number		
	Facility's Phone:					
18c. Signature of Alternate Facility (or Generator)						
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1.		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name			Signature		Month	Day