

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/guick_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 REMEDIA	TION INFORMATION AND C	ERTIFICATION
Full Legal Name of the Person Responsible for Conducting the F	Remediation: William R. Co	lvin
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This certification shall be signed by the person responsible for co		
in accordance with Administrative Requirements for the Remedia	ation of Contaminated Sites ru	lle at N.J.A.C. 7:26C-1.5(a).
I certify under penalty of law that I have personally examined and including all attached documents, and that based on my inquiry of the information, to the best of my knowledge, I believe that the saware that there are significant civil penalties for knowingly submam committing a crime of the fourth degree if I make a written far aware that if I knowingly direct or authorize the violation of any some Signature: Name/Title: William R. Colvin / BRAC Environmental Coordinator	of those individuals immediate ubmitted information is true, a nitting false, inaccurate or inco lse statement which I do not b	ly responsible for obtaining ccurate and complete. I am omplete information and that I elieve to be true. I am also

DEPARTMENT OF THE ARMY



OFFICE OF ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT U.S. ARMY FORT MONMOUTH P.O. 148 OCEANPORT, NEW JERSEY 07757

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

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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 6inches 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**).

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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 william.r.colvin18.civ@mail.mil.

Sincerely,

William R. Colvin, PMP, CHMM, PG

BRAC Environmental Coordinator

Willeam Coles

Linda Range, NJDEP (2 hard copies) cc: Joseph Pearson, Calibre (e-mail) James Moore, USACE (e-mail) Jim Kelly, USACE (e-mail)

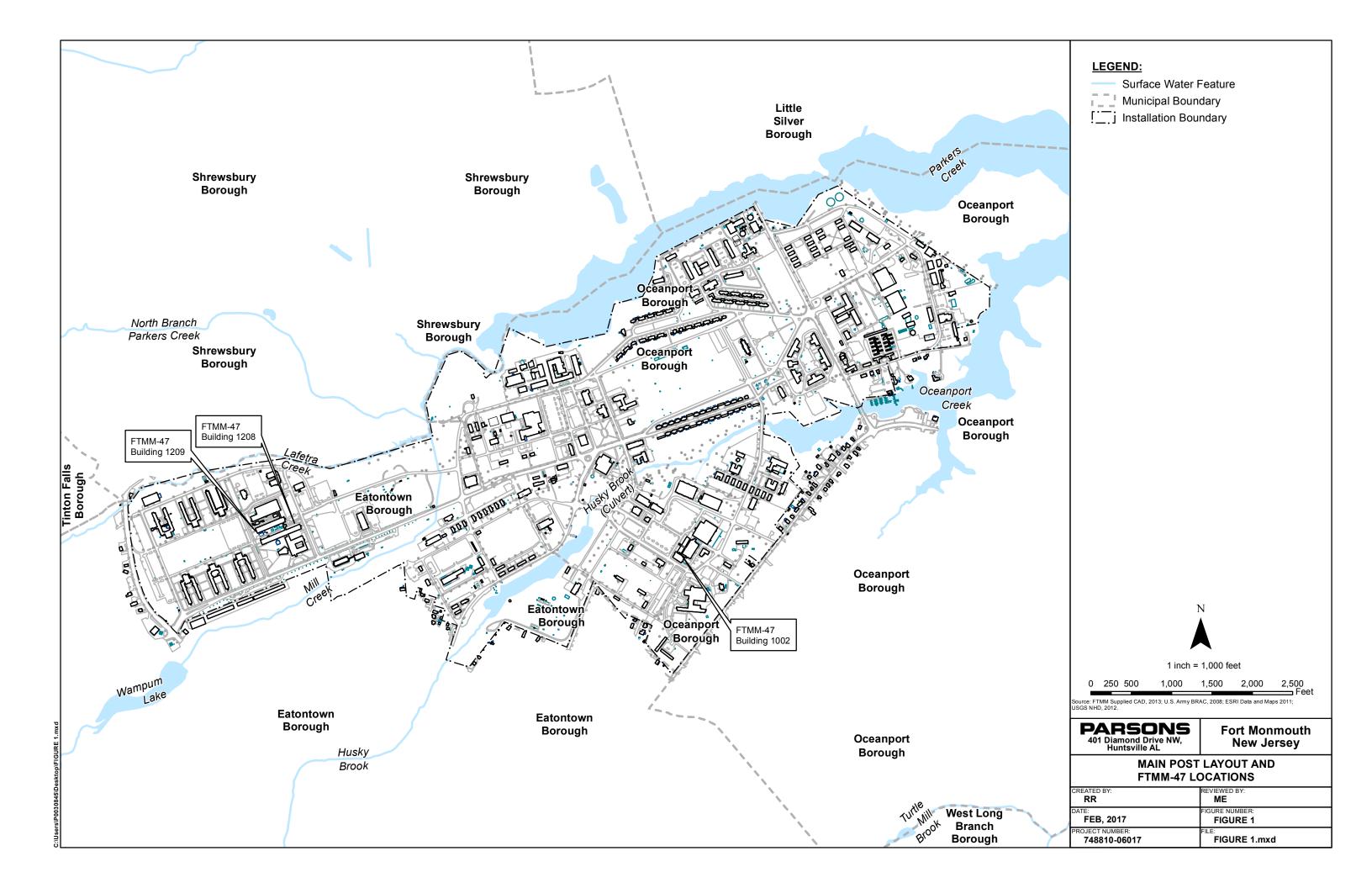
Cris Grill, Parsons (e-mail)

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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



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.

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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

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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.

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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.

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 Tersey

JON S. CORZINE Governor

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

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,

Larry Quinn, P.E., CHMM, Case Manager

Bureau of Case Management

Attachment

C:

Joseph Fallon, DPW, Fort Monmouth

NJDEP COMMENTS ON CERFA REPORT & ECP REPORT FORT MONMOUTH SITE

- 1. <u>ECP Parcel Category Definitions</u>: 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. <u>FTMM-20 (Parcel 75, Pre-1941 Former Main Post STP)</u>: 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. <u>Parcel 53 (700 Area)</u>: 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.

NIDEP COMMENTS ON CERFA REPORT & ECP REPORT FORT MONMOUTH SITE

- 7. <u>Parcel 56 (800 Area)</u>: 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. <u>FTMM-23 (CW-2 Wastewater Treatment Lime Pit)</u>: 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. <u>FTMM-28 (Parcel 7, CW-6 Former Pesticide Storage Building)</u>: This AOC is designated as Category 4. Category 5 would be more appropriate, pending NJDEP review of the NFA request.
- 11. <u>FTMM-29 (Parcel 12, CW-7 Former PCB Transformer Location)</u>: 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. <u>Radiological AOCs</u>: 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.



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



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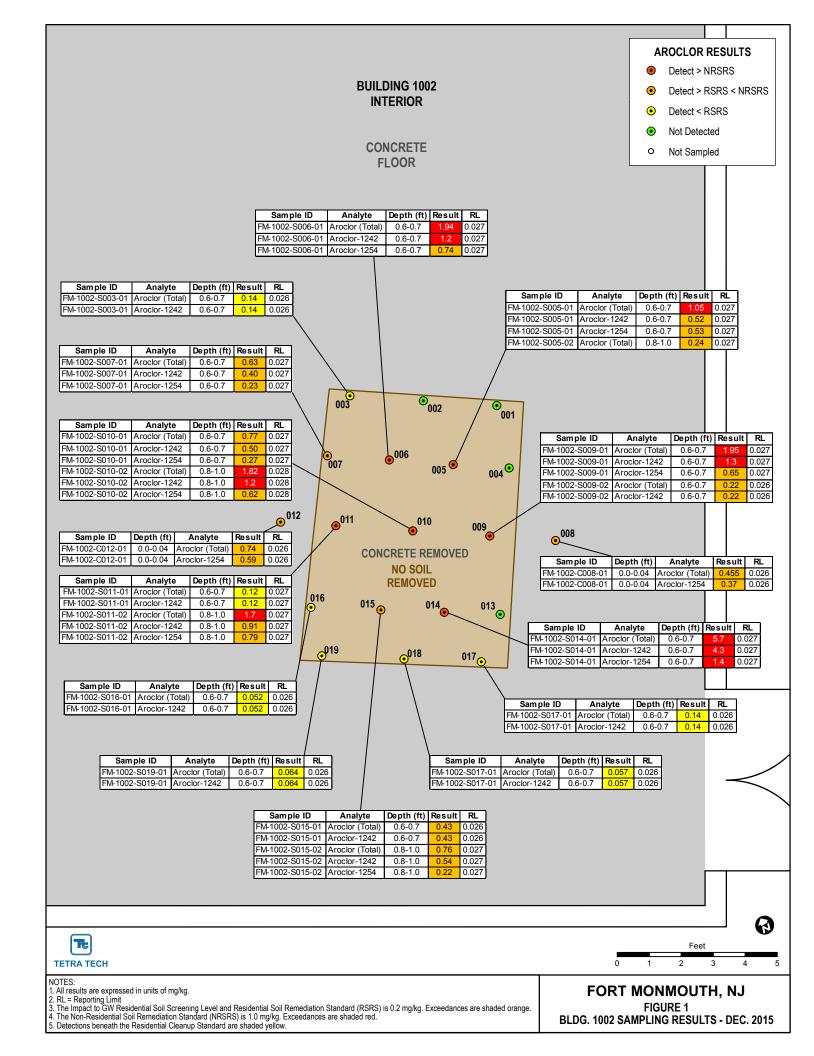
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U.S. Army Fort Monmouth Attn: William Colvin 100 Barton Ave. Oceanport, NJ 07757

1 electronic (via email)

ATTACHMENT 1 FIGURES



AROCLOR RESULTS Detect > RSRS < NRSRS Detect < RSRS \odot Not Detected **BUILDING 1002** Not Sampled **INTERIOR CONCRETE FLOOR** Sample ID Analyte Depth (ft) Result RL FM-1002-S012-01 Aroclor (Total) 2.0-2.1 0.027 FM-1002-S012-01 Aroclor-1242 2.0-2.1 0.027 Sample ID Analyte Depth (ft) Result RL FM-1002-S023-01 Aroclor (Total) 2.0-2.1 0.027 FM-1002-S023-01 Aroclor-1242 0.027 003 °002 O₀₀₁ 023 022 • 006 O 007 005° 004^O ⊙⁰¹⁰ 012 0011 009 ⊙⁰⁰⁸ **CONCRETE REMOVED** DEC. 2015 **CONCRETE REMOVED CONCRETE** 016 O ⊙⁰²¹ **JULY 2106** O015 014_O **REMOVED JULY 2016** 013 o⁰¹⁹ 018 017 **SOIL EXCAVATED TO DEPTH OF 1.5' BELOW CONCRETE OVER ENTIRE EXPOSED AREA JULY 2016** Te Feet **TETRA TECH** 2 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 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

Analtyical Method				EPA 8082A								
Parameter			Aroclor (Total)	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260		
Units				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		
		Start	End									1
	Collection	Depth	Depth									1
Sample ID	Date	(ft bgs)	(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
		Start	End									
	Collection	Depth	Depth									
Sample ID	Date	(ft bgs)	(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 critieria.

New Jersey Department of

Environmental Protection (NJDEP) Soil Remediation Standards (June 2, 2008)

NRSRS Non-Residential critieria.

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

			Analtyic		EPA 8082A	EPA 8082A
			Parameter	Aroclor-1262		
			Units	mg/kg	mg/kg	
				S (mg/kg)	NA	NA
			NRSR	S (mg/kg)	NA	NA
		Start	End			
	Collection	Depth	Depth			
Sample ID	Date	(ft bgs)	(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

				Parameter	Aroclor-1262	Aroclor-1268
				Units	mg/kg	mg/kg
			RSR	S (mg/kg)	NA	NA
			NRSR	S (mg/kg)	NA	NA
		Start	End			
	Collection	Depth	Depth			
Sample ID	Date	(ft bgs)	(ft bgs)	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 critieria.
	New Jersey Department of
	Environmental Protection (NJDEP) Soil
	Remediation Standards (June 2, 2008)
NRSRS	Non-Residential critieria.
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

					A 1 . 1.		MEDITO OD			
	Analytical Method									
Parameter										
Units										
RSRS (mg/kg)										
NRSRS (mg/kg)										
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 critieria.

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

FD Field Duplicate
ND Not Detected

N/A No criterion derived for this constituent.

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

Analytical Method									
Paramete									
				Units	mg/kg	Aroclor-1242 mg/kg			
			RSR	S (mg/kg)	0 0	0.2			
	Start			, , ,					
Collection	Depth	End Depth							
Date	(ft bgs)	(ft bgs)	LabSampleID	Matrix					
8/2/2016	2	2.1	AC92742-001	Soil	0.0135	0.0135			
8/2/2016	2	2.1	AC92742-002	Soil	0.0135	0.0135			
8/2/2016	2	2.1	AC92742-003	Soil	0.0135	0.0135			
8/2/2016	2	2.1	AC92742-004	Soil	0.46	0.46			
8/2/2016	2	2.1	AC92742-005	Soil	0.0135	0.0135			
8/2/2016	2	2.1	AC92742-006	Soil	0.0135	0.0135			
8/2/2016	2	2.1	AC92742-007	Soil	0.0135	0.0135			
8/2/2016	2	2.1	AC92742-008	Soil	0.0135	0.0135			
8/2/2016	2	2.1	AC92742-009	Soil	0.043	0.043			
	Date 8/2/2016 8/2/2016 8/2/2016 8/2/2016 8/2/2016 8/2/2016 8/2/2016 8/2/2016	Collection Date Depth (ft bgs) 8/2/2016 2 8/2/2016 2 8/2/2016 2 8/2/2016 2 8/2/2016 2 8/2/2016 2 8/2/2016 2 8/2/2016 2 8/2/2016 2 8/2/2016 2 8/2/2016 2	Collection Date Depth (ft bgs) (ft bgs) End Depth (ft bgs) 8/2/2016 2 2.1 8/2/2016 2 2.1 8/2/2016 2 2.1 8/2/2016 2 2.1 8/2/2016 2 2.1 8/2/2016 2 2.1 8/2/2016 2 2.1 8/2/2016 2 2.1 8/2/2016 2 2.1 8/2/2016 2 2.1	RSR NRSR Collection Depth End Depth Date (ft bgs) (ft bgs) LabSampleID 8/2/2016 2 2.1 AC92742-001 8/2/2016 2 2.1 AC92742-002 8/2/2016 2 2.1 AC92742-003 8/2/2016 2 2.1 AC92742-004 8/2/2016 2 2.1 AC92742-005 8/2/2016 2 2.1 AC92742-005 8/2/2016 2 2.1 AC92742-006 8/2/2016 2 2.1 AC92742-006 8/2/2016 2 2.1 AC92742-006 8/2/2016 2 2.1 AC92742-007 8/2/2016 2 2.1 AC92742-007 8/2/2016 2 2.1 AC92742-008 8/2/2016 2 2.1 AC92742-008	Parameter Units RSRS (mg/kg) NRSRS (mg/kg) NRSRS (mg/kg) NRSRS (mg/kg) NRSRS (mg/kg) NRSRS (mg/kg)	RSRS (mg/kg) 0.2 NRSRS (mg/kg) 1 Collection Date (ft bgs) (ft bgs) LabSampleID Matrix 8/2/2016 2 2.1 AC92742-001 Soil 0.0135 8/2/2016 2 2.1 AC92742-003 Soil 0.0135 8/2/2016 2 2.1 AC92742-004 Soil 0.0135 8/2/2016 2 2.1 AC92742-004 Soil 0.46 8/2/2016 2 2.1 AC92742-005 Soil 0.0135 8/2/2016 2 2.1 AC92742-005 Soil 0.0135 8/2/2016 2 2.1 AC92742-006 Soil 0.0135 8/2/2016 2 2.1 AC92742-006 Soil 0.0135 8/2/2016 2 2.1 AC92742-007 Soil 0.0135 8/2/2016 2 2.1 AC92742-007 Soil 0.0135 8/2/2016 2 2.1 AC92742-008 Soil 0.0135 8/2/2016 2 2.1 AC92742-008 Soil 0.0135			

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 critieria.

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

NRSRS (June 2, 2008) Non-Residential critieria.

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 Lab#: AC87535-001

Collection Date: 10/13/2015

Matrix: Concrete

Receipt Date: 10/13/2015

% Solids SM	2540G
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Analyte	DF	Units	RL	Result	
%Solids	1	percent		100	

PCB 8082

Analyte		F	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 Collection Date: 10/13/2015

Lab#: AC87535-002 Receipt Date: 10/13/2015

Matrix: Concrete

% 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	

NOTE: Soil Results are reported to Dry Weight

 Sample ID: FM 1002-S201
 Collection Date: 10/13/2015

 Lab#: AC87535-003
 Receipt Date: 10/13/2015

 Matrix: Concrete
 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	

NOTE: Soil Results are reported to Dry Weight

Sample ID: FM 1002-S202 Collection Date: 10/13/2015

Lab#: AC87535-004 Receipt Date: 10/13/2015

Matrix: Concrete

Analyte	DF	Units	RL	Result	
% Solids	1	percent		99	
CB 8082					
Analyte	DF	Units	RL	Result	
A1 (T-1-1)	4		0.005	ND	

Analyte	Di	- U	nits	RL		Result		
Aroclor (Total)	1	m	g/kg	0.025		ND		
Aroclor-1016	1	m	g/kg	0.025		ND		
Aroclor-1221	1	m	g/kg	0.025		ND		
Aroclor-1232	1	m	g/kg	0.025		ND		
Aroclor-1242	1	m	g/kg	0.025		ND		
Aroclor-1248	1	m	g/kg	0.025		ND		
Aroclor-1254	1	m	g/kg	0.025		ND		
Aroclor-1260	1	m	g/kg	0.025		ND		
Aroclor-1262	1	m	g/kg	0.025		ND		
Aroclor-1268	1	m	g/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			

 Sample ID: FM 1002-S301
 Collection Date: 10/13/2015

 Lab#: AC87535-005
 Receipt Date: 10/13/2015

 Matrix: Concrete
 Receipt Date: 10/13/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result	
% Solids	1	percent		100	

PCB 8082

Analyte	Di	- Units	s 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	

NOTE: Soil Results are reported to Dry Weight

 Sample ID: FM 1002-S302
 Collection Date: 10/13/2015

 Lab#: AC87535-006
 Receipt Date: 10/13/2015

 Matrix: Concrete
 Receipt Date: 10/13/2015

Analy	te	DF	Units	RL	Result	
%Solid	s	1	percent		99	
PCB 8082						
Analy	te	DF	Units	RL	Result	

Analyte	DI	F	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	D	F	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 Collection Date: 10/13/2015

Lab#: AC87535-008 Receipt Date: 10/13/2015

Matrix: Concrete

% Solids SM2540G

Analyte	DF	Units	RL	Result	
%Solids	1	percent		98	

PCB 8082

Analyte	DI	F Unit	s 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	

NOTE: Soil Results are reported to Dry Weight

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HC Report of Analysis

Client: Tetra Tech Inc.

HC Project #: 5121716

Project: Concrete Removal for PCB

Sample ID: FM-1002-S001-01

Lab#: AC88799-001

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

Analyte	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	NĎ
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

Analyte	DF	Units	RL	Result
% Solids	1	percent		90
3 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

Analyte	DF	Units	RL	Result
% Solids	1	percent		93
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

Analyte	DF	Units	RL	Result
% Solids	1	percent		94
3 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
Arocfor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		91
PCB 8082	war i i i i i i i i i i i i i i i i i i i	* ************************************		
Analyte	DF	Units	RL	Result
Aroclor (Total)	<u></u>	mg/kg	0.027	1.05
Aroctor-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
Aroctor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		92
B 8082				
Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	1.94
Aroctor-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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		91	
B 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	
Aroctor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		92
3 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

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

Analyte	DF	Units	RL	Result
% Solids	1	percent		90
PCB 8082	- ·			TO THE TAX
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
Aroctor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		94
8 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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		92	
B 8082					
Analyte	DF	Units	RL	Result	
Arocior (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

Analyte	DF	Units	RL	Result
% Solids	1	percent		94
B 8082			*****	 ··
Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	· ND
Aroctor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		94
B 8082				
Analyte	DF	Units	RL	Result
Arocior (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

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

Lab#: AC88799-020

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

Analyte		DF	Units	RL	Result	
% Solids		1	percent		95	
B 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

Analyte	DF	Units	RL	Result
% Solids	1	percent		94
3 8082			t worder in	
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

Analyte	DF	Units	RL	Result
% Solids	1	percent		93
CB 8082	· ·· · · · · · · · · · · · · · · · · ·			·····
Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.14
Aroctor-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
Aroctor-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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		90	
B 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	
Aroctor-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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		91	
B 8082		···	e verage		
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	
Aroctor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		93
3 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
Aroctor-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

Analyte	 DF	Units	RL	Result
% Solids	1	percent		94
B 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

70 001140 011120400						
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	

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Additional No	otes .													ect-Spe Conta										ſ	Cooler Temperature
												44	NJL	SRP P	roject	t (also				abo	ve/rig	jht)		لِب	2.8
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																								activated for any analysis.	

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

Matrix: Concrete

Receipt Date: 12/21/2015

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	1.1 100000 0000.11	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

Analyte	 DF	Units	RL	Result
% Solids	1	percent		98
B 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

Analyte	DF	Units	RL	Result
% Solids	1	percent		97
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

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

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	

175 Route	pton-Clarke, Inc. (WB 46 West and 2 Madison Road, Fairfi	Jersey 070	004			- K			CI			cus		ρY		Proj	ect # ((Lab (22	Jse 0 - (,	F	Page	of		
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الك	(Service Center): 856-780-6057 Fa		•				omen-O		sadva	ntaged	d, Sma	II Busir	ess Ente	erprise		Τι	rnaro	und			Rep	ort T	уре		Electronic De	eliv.
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1b) Email/Cell/F	ax/Ph:				2c)) Proje	ect Locat	ion (City	/State) :	_5	<u> </u>	lonm	routi	h5	Busines	s Days	s (25%	6)	Fu	ill / Cat	tegor	у В		EQuIS (specify be	elow):
1c) Send Invoic	<u> </u>		@tetn				_			npo	rt	<u> </u>	<u>J. </u>		10) Busine	ess Day	ys (Sta	and.)	Ca	ategory	/ A			4-File/EZ/NYS/Re	∌g. 2 or 5
1d) Send Repor	rt to: Maureen, mch	hy ler i	<u>a tetra</u>	atech,c	Z d	Quot	te/PO # ((If Applic	able):	•	ja)- T	EN-	<u>73</u>	3367°	ther:			_	Ek	ectronic	ic (P[OF)		Other:	
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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

0.027

Lab#: AC92742-001

Receipt Date: 8/3/2016

ND

Matrix: Soil

%	So	lids	SM2540G
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Aroclor-1268

Analyte	DF	Units	RL	Result	
% Solids	1	percent		93	
J EPH Category 2					
Analyte	DF	Units	RL	Result	
C9-C40	1	mg/kg	65	ND	
CB 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	

mg/kg

Sample ID: FM-1002-S010-03

Lab#: AC92742-002

Matrix: Soil

Collection Date: 8/2/2016

Receipt Date: 8/3/2016

% Solids SM2540G	%	So	lids	SM	125	40	G
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Analyte	DF	Units	RL	Result	
% Solids	1	percent		92	
J EPH Category 2	 				
Analyte	DF	Units	RL	Result	
C9-C40	1	mg/kg	65	ND	
CB 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

Analyte		DF	Units	RL	Result	
% Solids	 	1	percent		92	
J EPH Category 2						
Analyte		DF	Units	RL	Result	
C9-C40		1	mg/kg	65	ND	
CB 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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		91	
J EPH Category 2	•••		-		
Analyte	DF	Units	RL	Result	
C9-C40	1	mg/kg	66	ND	
CB 8082					
Analyte	DF	Units	RL	Result	
Aroclor (Total)	1	mg/kg	0.027	0.46	
Arocior-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	
Aroctor-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

ND

%	Sol	ids	SM	25	40G
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Aroclor-1268

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	

mg/kg 0.027

Sample ID: FM-1002-S021-01

Lab#: AC92742-006

Matrix: Soil

Collection Date: 8/2/2016

Receipt Date: 8/3/2016

70 OOII				
Analyte	DF	Units	RL	Result
% Solids	1	percent		91
NJ EPH Category 2				w
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

% 3011ds 3M2340G						
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

Analyte	DF	Units	RL	Result
% Solids	1	percent		92
J EPH Category 2				
Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	65	ND
CB 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

%	So	lids	SM	254	IOG
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Analyte	DF	Units	RL	Result
% Solids	1	percent		93
NJ EPH Category 2			*	The Comment Comment
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

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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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Site Remediation News 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;
 - 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;
 - 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;
 - 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-nitrosodin-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.

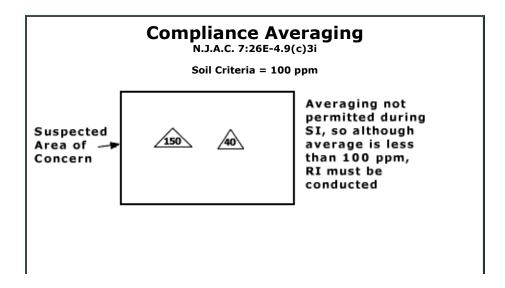
Therefore, the following approach may be used if, after completion of a remedial investigation, contaminated soils at an area of concern are not in compliance with a Soil Cleanup Criterion after averaging, but the data indicate that there is only a de minimis amount of contaminated soil. The department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

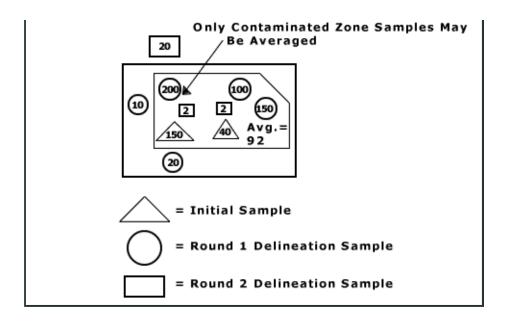
- a. Contaminant levels are "moderate"; that is, below the multiplication factor limits or ceiling levels, and below the 10,000 ppm total organic limit and the 1,000 ppm total volatile organic limit;
- Since the multiplication factor limits are applied to health-based numbers, the restrictions applicable 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:
 - Data from clean fill used to replace contaminated soils in the area of concern cannot be included to calculate the average;
 - 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
 - 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

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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

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

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Tetra Tech (TN) 1093 Commerce Park Drive, Suite 100

Oak Ridge, TN 37830 Attn: Mikael Spangberg Invoice No.:

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	Transportation and disposal invoice:	
	Transportation of five (5) roll-off's to disposal facility @ \$4,625.00/load	23,125.0
	Loading/unloading demurrage - four (4) hours @ \$105.00/hr.	420.0
	Container rental - 56 days @ \$15.00/day	840,0
	Disposal of 103.68 tons of PCB impacted soil @ \$145.00/ton	15,033.6
	Transportation of drums of PCB impacted water to facility	625.0
	Disposal of sixteen (16) drums of PCB impacted water @ \$925.00/drum	14,800.0
	Subtotal	54,843.6
	TOTAL AMOUNT DUE	\$54,843.6

1 1/2% Monthly Finance Charge on All Past Due Accounts

- **◆ SITE REMEDIATION**
- **♦ LEAD ABATEMENT**
- ◆ WASTE MANAGEMENT/LAB PACKS
- **◆ DIRECT PUSH SOIL BORINGS**
- **♦ INDUSTRIAL MAINTENANCE**

- **◆ TANK CLEANING & REMOVAL**
- **◆ BUILDING DECONTAMINATION**
- **◆ EMERGENCY RESPONSE**
- **◆ PCB MITIGATION**
- **◆ LANDFILL CAPPING**



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) 658-6229

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

5533 Dynham Road Maple Heights, OH 44137 Phone: (330) 835-3473

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

132 Myrtle Beach Hwy Sumter, SC 29153 Phone. (803) 773-2611

The second secon	(000) 300-1013	ra	1. (330) 633-3732		rax. (3/	0) 342-7307	rax.	803) 173-2942	
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Payment to the contractor for waste removal does need the contractor.	ot constitute payme	ent to the carrier ar	nd if the contractor	rdoes not pa	y the carrier	, the shipper is o	bligated to pay t	ie agreed rate (offered to
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NY NJ-113

RI RI-535

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Н	/_ Irai	nsporter 2 Company Name -J					J.S. EPA ID N	umber		
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H	B Des	signated Facility Name and Site Address (Ayrie: Disposal, Inc., Site #21, areth)					J.S. EPAID N	umber		377
П	45	9309 N. 1-94 Service Drive		1.,			MILIO	480000	33	
П	25	effeville, MI 48111		76						
Ш	Facility	y's Phone 800-592-5489		<i>7</i> .						
Ш	9a.	9b. U.S. DOT Description (including Proper Shipping Name, Hazar	d Class ID Number.		10. Containers		11. Total	12. Unit		
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	15. 0	SENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare the marked and labeled/placarded, and are in all respects in proper cond	at the contents of this consignment	ent are fully and ac	curately describ	ed above by	the proper shi	pping name	e, and are classif	ied, packaged,
П	E E	Exporter, I certify that the contents of this consignment conform to the	terms of the attached EPA Ack	ppircable internation nowledgment of Ci	nai ano national Insent.	i governmena	a regulations.	ii export sn	upment and I am	the Primary
Ш	- 1	certify that the waste minimization statement identified in 40 CFR 26			f Lam a small ou	- 12				
Н			2.27(a) (if I am a large quantity	generator) or (b) (i	i um a smon qu	ranuty genera	tor) is true.	2007	X	
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Wayne Disposal, Inc. 49350 North I-94 Service Drive, Belleville, Michigan 48111

5 c r B 3

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	2	1	Qty. Unit	
1 - 1	I150185WDI - PCB Concrete	7		21.050 TONS	
	Hazardous Surcharge Ton	40.		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	-	Dates	21,050 TONS	
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH	MAIN POST			
	Gross: 79,020 Tare: 36,920 Net: 42,	100			



INDUITORD CANTAGE HIV.

11

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

DIFF OF FUDING FCI EPA ID NO. NJD054126164

\$ 590931

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

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

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SPE		NG CONTAIN	ER EXEMPTION	ON NUMBER.		l					
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trans	portation according to the applicable regulated. The consignee can and will accept the sh	ions of the De	partment of Tr	ransportation, U.S.	S. EPA and the	State, Th	e materi	als described above wer	re consione	to the Tran	sporter
Payn the c	nent to the contractor for waste removal does rontractor.	not constitute p	payment to the	carrier and if the	contractor does	not pay th	ne carrie	r, the shipper is obligated	to pay the a	greed rate of	ered to
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NY NJ-113

RI RI-535

Gold - Retained by Generator

MA MA-294

MN UPW-0190713-OH

Ple	ase print or type. (Form design		h) typewriter.)					For	n Approved, OMB No. 2050-003
1	UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number PUSQ 100/20597		2. Page 1 of ,3. Ęr	nergency Respons	e Phone	4. Manifest	Tracking N	2565 JJK
П		ng Address act विदेशाच्यासम्बद्धीतः विदेशातः वि	^t ust		ator's Site Address	(if different t	han mailing addres	ss)	
	P.O. Box 148 Coranport, HJ 077	57			Main Phst Fout Moanum	allh, Mi	07703		
П	Generator's Phone								
Ш	6 Transporter 1 Company Nam	Partage Inc.	(FCI)				U.S. EPAID I		54126164
П	7. Transporter 2 Company Nam		,				U.S. EPA ID N	lumber	1)=10 0
	8. Designated Facility Name and						U.S. EPA ID N	(177) Jumber	
	Programme Disposal, to Programme All Allertic Religions, Mi Allertic	Cir Derve						48000%	14
	BIX上与企業 Facility's Phone:	409					1		
	HM and Packing Group (if a	137			10. Contai	ners Type	11, Total Quantity	12 Unit Wt./Vol.	13 Waste Codes
GENERATOR -	1. Rod 1873-32 ERG# 171	г муспаньей и ырпе	nym, troud, rabyture, s	lates W. P'Cs III :	XXI	C.PAI	30,000	18	PCHI
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	4								
	14. Special Handling Instruction	ns and Additional Information	Thuk #	796 Trie	ler # 40))			3 11
	AWT 150, # 14485 r	MP.	Tax #-9				Land LI		÷.
	Exporter, I certify that the	PR'S CERTIFICATION: I hereborded, and are in all respects in properties of this consignment collimitation statement identified in	proper condition for transport ac inform to the terms of the attach	cording to applicable in ed EPA Acknowledgme	ternational and nati nt of Consent.	onal governn	nental regulations.	pping name If export shi	, and are classified, packaged, pment and I am the Primary
ļ	Generator's/Offeror's Printed/Ty	ped Name		Signature	mec	With.	o de Co	1/-	Month Day Year 1915 1/6
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SPO	KILLIM	189 p			Z	- T Ara-			108/03/16
TRANSPORTER	Transporter 2 Printed/Typed Na	me		- Signature		-			Month Day Year
1	18. Discrepancy			- I	<u> </u>				
	18a Discrepancy Indication Spa	ace Quantity	Туре		Residue		Partial Reje	ection	Full Rejection
È	18b. Alternate Facility (or Gener	rator)	<u> </u>		Manifest Reference	Number.	U.S. EPA ID N	lumber	
ACIL	Facility's Phone:	260					f		×.
DESIGNATED FACILITY	18c. Signature of Alternate Faci	lity (or Generator)							Month Day Year
SIG	19. Hazerdous Waste Report M	CONTRACTOR OF THE PARTY OF THE	codes for hazardous waste tre		ecycling systems)				
ā	1. Plb	2.		3.			4		7
	20. Designated Facility Owner of Printed/Typed Name	Operator Certification of rece	ipt of hazardous materials cove			m 18a	-	4-2	Month Pro. Von
	Printed/Typed Name		le.	Signature 	-1		de la company		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: 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.

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BILL OF LADING FCI EPA ID NO. NJD054126164

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SHI	PPER NAME/ADDRESS	W	PHON	5 mm (000)			100000				,	
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пап	ed. The consignee can and will accept t	he shipment a	and has a valid perr	nit to do so if re	quired. I c	ertify th	at the fore	egoing is	true and correct to	the best of my	knowledge.	
Pay	ment to the contractor for waste removal o	loes not const	itute payment to the	carrier and if th	e contracto	or does	not pay th	e carrier,	the shipper is oblig	ated to pay the a	igreed rate o	ffered to
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NY NJ-113

RI RI-535

White - FCI Original Yellow - FCI Billing

MA MA-294

Blue - FCI Office/Customer Green - Retained by TSDF Gold - Retained by Generator

\$590772

Ple	ase	print or type. (Form designed for use on elite (12-pitch) typewriter.)							Approved OMB No. 2050-0039
1	L	NIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST N.33210076597	2. Page 1 of	- 1	rgenc; Response	Phone	4. Manifest	Tracking No	2564 JJK
11	5	Generator's Name and Mailing Address			or's Site Address	if different th			
П	1	US Dept of Army Fort Monaputh - Main Post		1.1	lan Post				
П	1	P.O. Box 148 Oceanport, NJ 07757			unt Afrectance	dia N1 7	17703		100
П	G	enerator's Phone;	1						
П	6	Transporter 1 Company Name					U.S. EPAID N		
		Freehold Cartage Inc.			5		100	DO	54126164
П	7.	Transporter 2 Company Name - 1					U.S. EPAID N	lumber	Ŧ
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П	8	Designated Facility Name and Site Address VVaytre 1のほかのまた はこったま 様と Landfill					U.S. EPA ID N	lumber	
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	F	acity's Phone:							
		a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	; .'		10. Contain		11, Total	12. Unit	13 Waste Codes
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	1	GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this marked and labeled/placarded, and are in all respects in proper condition for transport according to the content of th	consignment	are fully a	and accurately des	cribed above	by the proper sh	ipping name	, and are classified, packaged,
П		Exporter, I certify that the contents of this consignment conform to the terms of the attached	d EPA Acknow	iedgment	of Consent.			n expect on	
П	-	I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a largenerator's/Offeror's Printed/Typed Name		erator) or nature	(b) (if I am a small	I quantity ge	nerator) is true.		Month . Day Year
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E	1	7. Transporter Acknowledgment of Receipt of Materials							
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FA	F	amility's Phone:					1		
15	1	c. Signature of Alternate Facility (or Generator)							Month Day Year
DESIGNATED FACILITY									
Sign	1	Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste trea	tment, disposa	il, and red	cycling systems)		- 1:		
2	5 1	11. 15	3.				4.		
11	1	Designated Facility Owner or Operator Certification of receipt of hazardous materials cover	ad by the meet	fact avea	ent as autod in Ita-	182			
11		hrited/Typed Name		nature	pt as nices in Ren	ı rud			Month Day Year
11		1 1/2 1 (5, 3, 1)	1			£	72	8	1 1 1 2

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	9 41:	Qty. Unit	
1 - 1	I150185WDI - PCB Concrete	16	20 950 TONS	
	Hazardous Surcharge Ton	1	20.950 TONS	
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST			
	Gross: 78,980 Tare: 37,080 Net: 41,900	22. 2		
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	0.000000		



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 Častle, 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

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NY NJ-113

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MA MA-294

T Igo	T-*-	Generator ID Number	typewnter.)	2 Page 1 of	I 1 Empr	ency Respons	a Dhone	I Hanifast	Form	n Approved OMB No. 2050-003
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	8. Qesignated Facility Name at 43.3500 to 1.01 Sector Controller All 2001	JE Diver						U.S. EPAID I	Number i 1 ₈ (3) ₌ (3) ₅	33
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	marked and labeled/placar Exporter, I certify that the	R'S CERTIFICATION: I hereby did ded, and are in all respects in pro- contents of this consignment confo imization statement identified in 40	per condition for transport a rm to the terms of the attact	ccording to appli hed EPA Acknow	cable intern rledoment o	ational and nat I Consent.	tional governi	mental regulations.	ipping name If export sh	and are classified, packaged, ipment and I am the Primary
↓	Generator's/Offeror's Printed/Ty	ped Name OV:N JON US	34044						9000	Month Day Year
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SNATE		# 2 %								Month Day Year
ESK	19. Hazardous Waste Report M.	anagement Method Codes (i.e., co	ides for hazardous waste be		, and recyc	ding systems)	.,			
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	20. Designated Facility Owner of Printed/Typed Name	Operator: Certification of receipt	of hazardous materials cove			as noted in Ite	m 18a			
	Printed/typed Name	phylippe sem) 	nature ,	1	1			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

ine	Description	3.0	Qty Unit	
21 278	Generator			
- 1	I150185WDI - PCB Concrete	The state of the s	20 360 TONS	
	Hazardous Surcharge Ton	12	20 350 TONS	
	NJ3210020597 US DEPT OF ARMY-FORT MONMOUTH MAIN I	POST		
	Gross: 78,020 Tare: 37,300 Not: 40,720			
	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			

A CO

PREELIGED CARTAGE INC.

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

FCI EPA ID NO. NJD054126164

s 579185

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

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US Dept of Army		ith . Mun Dr	**			Å.							
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1150185WD1-F	CB Soil & Co		Truck	# 74	7 B								N 344 A
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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: 011852566JJK

Transporter: FCI

Date: 08/09/2016 Time In: 4:18 PM Time Out: 5:03 PM

Line	Description			Qty. Unit	
	Generator		- F		0.0000
- 1	1150185WDI - PCB Concrete			20.300 TONS	-
	Hazardous Surcharge Ton			20 300 TONS	
	NJ3210020597 US DEPT, OF ARMY-FORT N	MONMOUTH MAIN POST			
	Gross: 77,720 Tare: 37,120	Net: 40,600			
	Wayne Disposal Host Community Agreement	Royalty Fee		20.300 TONS	
	NJ3210020597 US DEPT. OF ARMY-FORT N	MONMOUTH MAIN POST			
	Gross: 77.720 Tare: 37.120	Net: 40,600			

Pie	ase p	rint or type. (Form designed for use on elite (12-pitch) typewriter.)	F 11-11-					Approved. (OMB No. 2	050-003
1		FORM HAZARDOUS 1. Generator ID Number VASTE MANIFEST NJ3210020597	2. Page 1 of	3. Ernergency Response 732-613-1660	304 10 000 20 40 34	4. Manifest	185	2576	6 Ju	K
	l L	enerator's Name and Mailing Address JS Dept of Army-Fort Monmouth - Main Post P.O. Box 148	370)	Generator's Site Address Main Post Fort Mountme			5)	3, 3, 3,		
	F	Oceanport, NJ 07757		FOR MOUNTING	o LIVI, muc	1103				
Н	6. Tr	ransporter 1 Company Name				U.S. EPAID	lumber			
П		Aaumee Express, Inc.				5.4.0	8660738	30		
П	7. To	ansporter 2 Company Name			1	U.S. EPAIDN	umber			
	B.D	esignated Facility Name and Site Address			74 8	U.S. EPAID N	umber	-		- 1
	E	bycle Chem, Inc. 17 # South Hirst Street Dizabeth, NJ 07206				NJAA	APPARA4	ıs		
Ш	Facil	iny's Phone: 908-355-5800	9	19		1				
	9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))		10. Contai No.	Type	11. Total Quantity	12. Unit WL/Vol.	13. W	aste Codes	Ē,
2	X	UN-2315 - Polychlorinated Biphenyls - Liquid, Class 9, Polych	i II		DM	75 0.	X		*	
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GENERATOR	_	2.	***************************************		 	1		ar or all are		
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	14.5	Special Handling Instructions and Additional Information					- 13			- 3
ľ	P	CB Contaminated Water 90-100%, Soil/Debris 0-10%								
-		WT P.O. # 14485-MP						4	808	139
*	1	GENERATOR'S/OFFEROR'S CERTIFICATION! I hereby declare that the contents of the marked and labeled/placarded, and are in all respects in proper condition for transport ac Exporter, I certify that the contents of this consignment conform to the terms of the attach	cording to appli	cable international and nati	scribed above li ional governme	by the proper shi ntal regulations.	pping name, If export ship	and are dass oment and I ar	ified, packa n the Prima	ged, ry
	L	I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a lat	rge quantity gen	erator) or (b) (if I am a sma	all quantity gene	erator) is true.				
ļ	Vil	rator's/Offeror's Printed/Typed Name Illiam R Colvin for US Army International Shipments	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Select Co	hins	Pe US	ARM	14 108	Day 29	Year 16
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		resignated Facility Owner or Operator: Certification of receipt of hazardous materials cover	red by the mani	lest except as najed in Just	n //a //	/	$\overline{}$	34		
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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



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

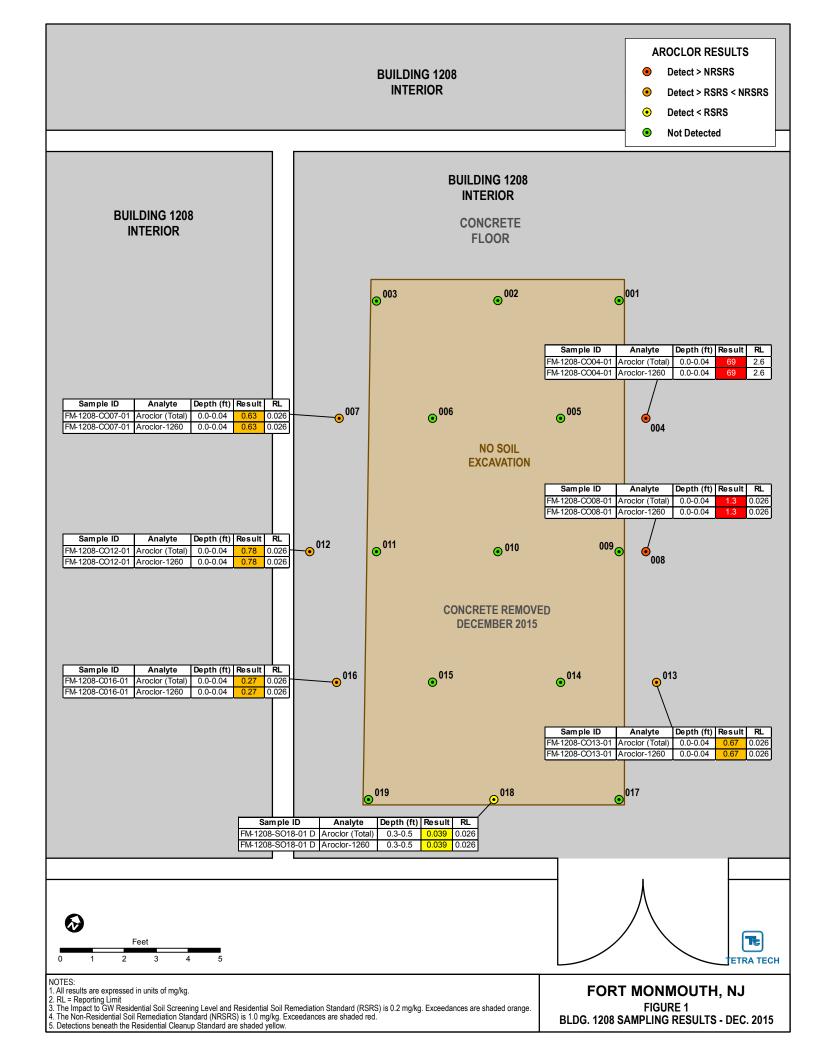


Document Distribution List

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

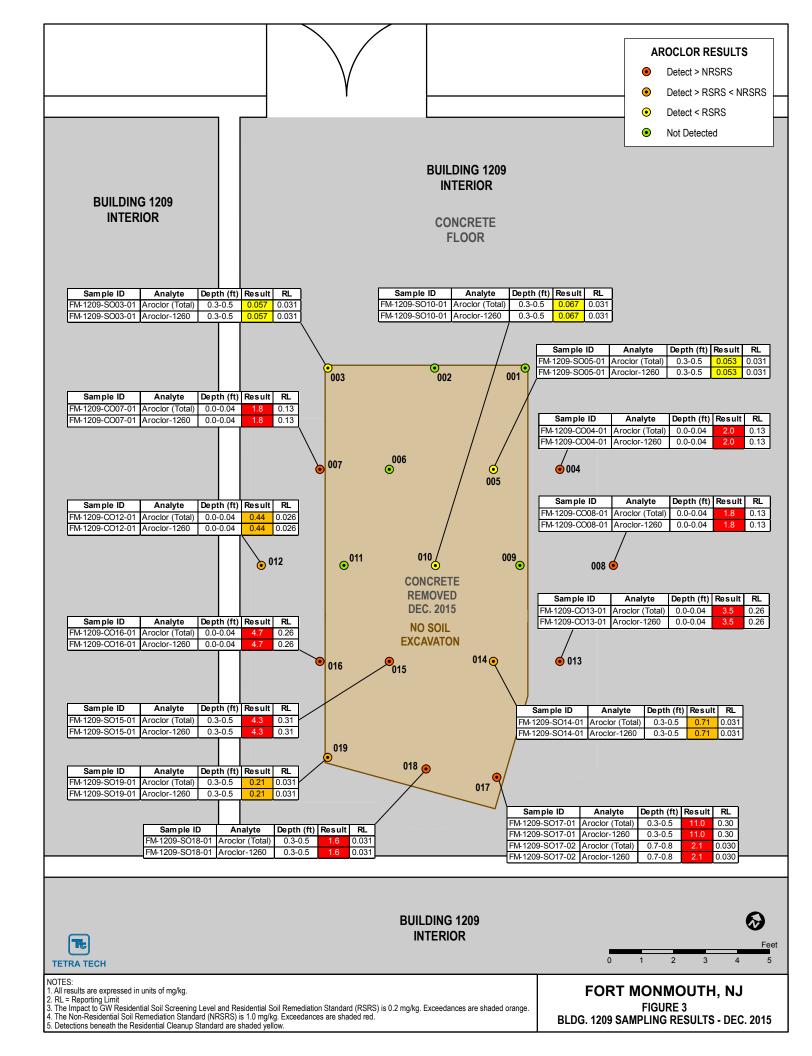


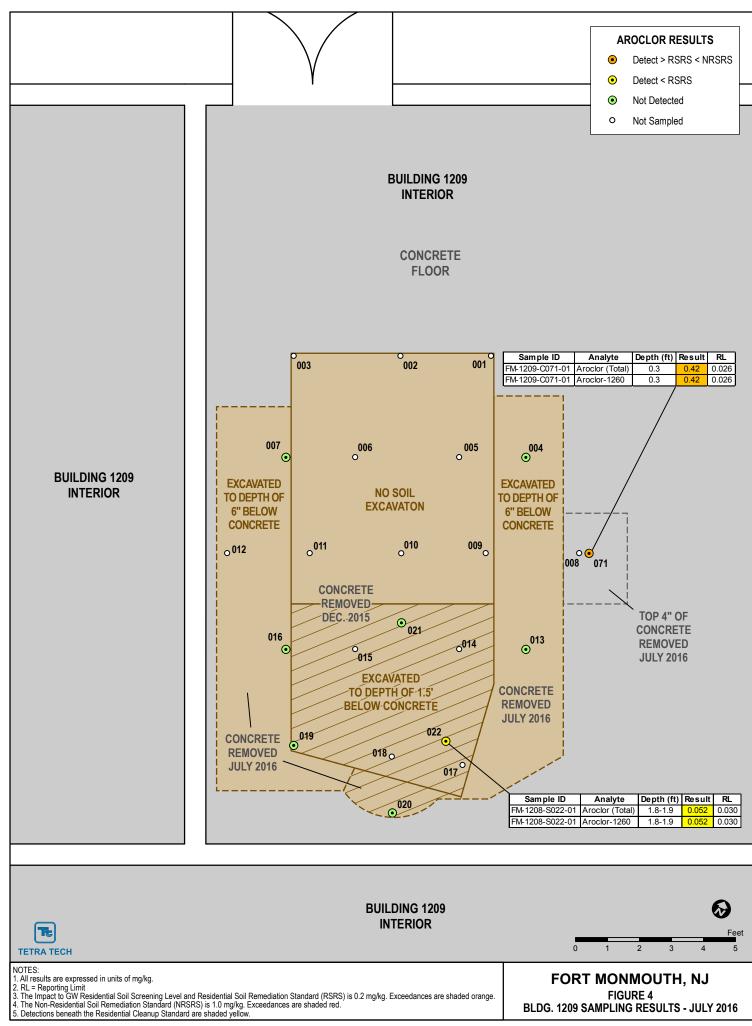
AROCLOR RESULTS **BUILDING 1208** Detect < RSRS **INTERIOR** • Not Detected Not Sampled **BUILDING 1208 INTERIOR BUILDING 1208 CONCRETE INTERIOR FLOOR** 0001 0002 0003 Sample ID Analyte Depth (ft) Result RL **⊙**⁰⁰⁴ ·•• 007 0006 0 005 FM-1208-S007-01 Aroclor (Total) 0.29 0.8-0.9 FM-1208-S007-01 Aroclor-1260 0.8-0.9 0.29 **EXCAVATED EXCAVATED** TO DEPTH OF **NO SOIL** TO DEPTH OF 6" BELOW **EXCAVATION 6" BELOW CONCRETE CONCRETE** ·• 012 **⊙**008 Sample ID Analyte Depth (ft) Result RL 011 009 0 FM-1208-S012-01 Aroclor (Total) 0.8-0.9 0.29 o 010 FM-1208-S012-01 Aroclor-1260 0.8-0.9 **CONCRETE CONCRETE CONCRETE REMOVED REMOVED REMOVED DECEMBER 2015 JULY 2016 JULY 2016** ⊙⁰¹⁶ ⊙⁰¹³ o ⁰¹⁵ 0 014 018 017 019 Te Feet TRA TECH NOTES:

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





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

			Analytic	al Method	EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A
			•		Aroclor (Total)						
				Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
			RSR	S (mg/kg)	0.2	0.2	0.2	0.2	0.2	0.2	0.2
				S (mg/kg)	1	1	1	1	1	1	1
		Start	End	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
		Depth	Depth								
Sample ID	Collection Date	_		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-C016-01	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

${\bf Excavation} \ {\bf Confirmation} \ {\bf PCB} \ {\bf Sample} \ {\bf Results}$

Fort Monmouth, New Jersey

			Analytic	al Method	EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A
	Parameter					Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254
Units					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
			NRSR	S (mg/kg)	1	1	1	1	1	1	1
		Start	End								
		Depth	Depth								
Sample ID	Collection Date	(ft bgs)	(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	
RSRS	

milligrams per kilogram

New Jersey Department of Environmental Protection Soil Remediation Standards (June

2, 2008) Residential critieria.

NRSRS New Jersey Department of Environmental

Protection Soil Remediation Standards (June

2, 2008) Non-Residential critieria.

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

		Analytic	al Method	EPA 8082A	EPA 8082A	EPA 8082A	
				Parameter	Aroclor-1260	Aroclor-1262	Aroclor-1268
				Units	mg/kg	mg/kg	mg/kg
			RSR	S (mg/kg)	0.2	NA	NA
			NRSR	S (mg/kg)	1	NA	NA
		Start	End				
		Depth	Depth				
Sample ID	Collection Date	-	-	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-C016-01	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

			Analytic	al Method	EPA 8082A	EPA 8082A	EPA 8082A
				Parameter	Aroclor-1260	Aroclor-1262	Aroclor-1268
		mg/kg	mg/kg	mg/kg			
		0.2	NA	NA			
		1	NA	NA			
		Start	End				
		Depth	Depth				
Sample ID	Collection Date	(ft bgs)	(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 critieria.

NRSRS New Jersey Department of Environmental

Protection Soil Remediation Standards (June

2, 2008) Non-Residential critieria.

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						
			Pa	rameter	C9-C40						
	Uni										
	(mg/kg)	NA									
NRSRS (mg/kg)											
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 critieria.

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

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

			Analtyic	al 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
				RS (mg/kg)	0.2	0.2	0.2	0.2	0.2	0.2
				S (mg/kg)	1	1	1	1	1	1
		Start Depth	End Depth							
Sample ID	Collection Date	(ft bgs)	(ft bgs)	Matrix) III)	MD) III)) ID) ID
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

	Analtyical Method						EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A
	Aroclor (Total)	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248				
	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
			NRSR	S (mg/kg)	1	1	1	1	1	1
		Start Depth	End Depth							
Sample ID	Collection Date	(ft bgs)	(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 critieria.

New Jersey Department of Environmental Protection

Soil Remediation Standards (June 2, 2008) Non-

NRSRS Residential critieria.
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

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

Notes:

mg/kg milligrams per kilogram

New Jersey Department of Environmental Protection

Soil Remediation Standards (June 2, 2008)

RSRS Residential critieria.

New Jersey Department of Environmental Protection

Soil Remediation Standards (June 2, 2008) Non-

NRSRS Residential critieria.
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
Complaince Averaging Calculation
Fort Monmouth, New Jersey

			Analytic	al Method	EPA 8082A	EPA 8082A
				Parameter	Aroclor (Total)	Aroclor-1260
				Units	mg/kg	mg/kg
			RSR	S (mg/kg)	0.2	0.2
	S (mg/kg)	1	1			
		Start Depth	End Depth			
Sample ID	Collection Date	(ft bgs)	(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 critieria. New Jersey Department of Environmental Protection Soil Remediation Standards (June 2, 2008) Non-**NRSRS** Residential critieria. FD Field Duplicate Not Detected, 1/2 detection limit used No criterion derived for this constituent. NA 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 NJEPHR							
Parameter							
				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 critieria.

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

FD Field Duplicate
ND Not Detected

NA No criterion derived for this constituent.

ATTACHMENT 4 LABORATORY ANALYTICAL REPORTS

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-C016-01	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

%	Sol	lids	SM	254	l0G
---	-----	------	----	-----	-----

Analyte	DF	Units	RL	Result
% Solids	1	percent		83
B 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	t with the same of	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	1.000	1	mg/kg	0.030	ND	
Aroclor-1268		1	mg/kg	0.030	ND	

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Sample ID: FM-1209-SO03-01

Lab#: AC88851-004

Matrix: Soil

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

Analyte	DF	Units	RL	Result
% Solids	1	percent		84
PCB 8082				

082				
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

0.13

Receipt Date: 12/21/2015

ND

% Solids SM2540G

Aroclor-1268

Analyte	DF	Units	RL	Result
% Solids	1	percent		98
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

mg/kg

Sample ID: FM-1209-SO05-01

Lab#: AC88851-007

Matrix: Soil

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

Analyte	DF	Units	RL	Result
% Solids	1	percent		83
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

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	
Aroctor-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

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	
Arocior-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

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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		98	
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	
Aroctor-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	1011100 00000000
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	
Arocior-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	
Aroctor-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	
Arocior-1254	1	mg/kg	0.030	ND	
Aroclor-1260	1	mg/kg	0.030	ND	
Aroctor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		98
8 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

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	
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

Analyte	DF	Units	RL	Result
% Solids	1	percent		79
CB 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			The same of the sa		
Analyte	DF	Units	RL	Result	
Aroclor (Total)	10	mg/kg	0.31	4.3	
Aroctor-1016	10	mg/kg	0.31	ND	
Aroclor-1221	10	mg/kg	0.31	ND	
Aroctor-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

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

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	
Aroctor-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	W
Aroclor-1268	10	mg/kg	0.31	ND	

Sample ID: FM-1209-SQ15-02

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
B 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	THE PROPERTY OF THE PROPERTY O	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	100 to 10	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 Un	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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		84	
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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		84	
PCB 8082			ar ar ar a		- •
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	
Aroctor-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

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
Aroctor-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

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

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

Matrix: Soil

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	ma/ka	0.031	ND

Sample ID: FM-1209-SO19-02

Lab#: AC88851-032

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

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	
Araclar-1232	1	mg/kg	0.032	ND	
Aroctor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		88
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

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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		88	
PCB 8082					
Analyte	DF	Units	RL	Result	
Aroclor (Total)	1	mg/kg	0.028	ND	
Aroclar-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	
Aroctor-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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		98	
B 8082				- ···· · · ·	
Analyte	DF	Units	RL	Result	
Aroclor (Total)	100	mg/kg	2.6	69	
Aroctor-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

Analyte % Solids	DF	Units	RL	Result	
	1	percent		87	
PCB 8082					
Analyte	DF	Units	RL	Result	
Aroclor (Total)	1	mg/kg	0.029	ND	
Aroctor-1016	1	mg/kg	0.029	ND	
Aroclor-1221	1	mg/kg	0.029	ND	
Aroclor-1232	1	mg/kg	0.029	ND	
Arocfor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		87
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
Aroctor-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	DF Units		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

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	4,
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	The second section of the second section of the second section of the second section s	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	•
Aractor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		86
PCB 8082			-	<u>-</u>
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
Aroctor-1260	1	mg/kg	0.029	ND
Aroclor-1262	1	mg/kg	0.029	ND
Aroctor-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

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	
Aroctor-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
CB 8082				
Analyte	DF	Units	RL	Result
Aroclor (Total)	 1	mg/kg	0.026	0.78
Aroctor-1016	1	mg/kg	0.026	ND
Arocfor-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
Araclor-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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		98	
8 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

Analyte	DF	Units	RL	Result
% Solids	1	percent		87
B 8082				
Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroctor-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
Aroctor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		86
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

Analyte	DF	Units	RL	Result	
% Solids	1	percent		87	
PCB 8082		and the same two two transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfers of the same transfer of the same transfers of the same tr			
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	
Aroctor-1262	1	mg/kg	0.029	ND	
Aroctor-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

Analyte	DF	Units	RL	Result
% Solids	1	percent		88
3 8082		***************************************		10 1 1000 11 1
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	
B 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

Analyte	 DF	Units	RL	Result
% Solids	1	percent		98
B 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	ma/ka	0.026	ND

Sample ID: FM-1208-SO17-01

Lab#: AC88851-059

Matrix: Soil

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

Analyte	DF	Units	RL	Result
% Solids	1	percent		86
PCB 8082				100 1 W 1 W 1 W 1 W 1 W 1 W 1 W 1 W 1 W
Analyte	 DF	Units	RL	Result
Aroclor (Total)	 1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	NO
Arocior-1221	1	mg/kg	0.029	NO
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
3 8082	• • • • • • • • • • • • • • • • • • • •		and the second s	
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

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

Matrix: Soil

Analyte	DF	Units	RL	Result	
% Solids	1	percent		87	
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

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

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		(Service Center): 856-780-6057 Fa					A W	omen-(Owned,	Disadva	antage	d, Sm	all Busii	ness En	terprise	e		Turn	arour	nd			Repo	ort T	уре		Electronic Deliv.
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1c)Send Invoice	, , , , , , , , , , , , , , , , , , , ,				1				UCY	ean	port	<u>. 1</u>	V.J.	· —,	222/		usiness	Days	(Star	nd.)	Са	ategory	/ A			4-File/EZ/NYS/Reg. 2 or 5
1d)Send Repor	t to: Mauren, wern	ner a	tetrate	ch.C	(49)	Quote	:/PO #	(If App	olicable):	•	_/Q)-	TEN	-/3	2226	Othe		Evno	litad '	_ TAT N		ectronic			Pleas	Other:
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144	FM-1208-5009-01	S	ľ	725	hrs	V	/											1								
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ח		26-9992 973-244-9770 Fax: 973-24 nter: 137-D Gaither Drive, Mount Lau	·····		Han	npton-	Clark	e e		,	REC	ORD)	Ī			3	R	epor	ting	Req	uirer	nent	s (PI	ease Circle)
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	1c) Send Invoice	to: Mikael. spang	iberg of tebate	ebh, c	Y			Doeg	npo	<u>rt</u>	N	J			10 Bu	siness	Days	(Stai	nd.)	Ca	ategor	у А			4-File/EZ/NYS/Reg. 2 or 5
ļ	1d) Send Report	to: Mauren, memy	lerio tetrated	h.com	2d) Qu	ote/PO#	(If Appl	icable):	: '	100	<u>-70</u>	5N-	<u> 733</u>	367	Other	:			_	Ek	ectron	ic (P[OF)	ļ	Other:
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	052	FM-1208-5014-01	SÍÍ	751 h	rs V	1/																			
	063	FM-1208-SO14-01 FT) L		ns V	V											1								Field Dupliante
	054	FM-1208-SOIS-01	r	756 1	rs v	/ /											1								
- [65 56	FM-1208-SOIS-01M	17	756 H	ys V	V											1								MSMSD
	167	FM-1208-5015-02	18	804)	ns v	1																			Hold
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	069	FM-1208-5017-01	S 18	805 K	ys V	1											1					<u> </u>			
		HM-1208-5017-02			VS V	1											1					L		Ш	Hold
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1d) Send Report	to: Maureen. Movi	ryiere	V.Cecrai	jeui, a	<i>12</i> 0,	Quoi	ie/PO #	(II App	olicable):			00-	100	1.5	JAC I	Othe		Evner	hatih	— Тат N			nic (P		Piess	Other:se Check with Lab.
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Sample ID: FM-1209-C071-01

Lab#: AC92614-002

Matrix: Concrete

Collection Date: 7/27/2016 Receipt Date: 7/27/2016

Analyte	DF	Units	RL	Result
% Solids	1	percent		95
CB 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
Aroctor-1260	1	mg/kg	0.026	0.42
Aroclor-1262	1	mg/kg	0.026	ND
Aroclor-1268	1	mg/kg	0.026	ND

	Hamp	oton-Clarke, Inc. (WB	E/DB	E/SBE)		_			-							Pro	ject #	(Lab	Jse Or	ıly)				1 4	
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7.	1a) Customer:	Tetra Tech	•••			2a)Proje	ect:	F	ort		nma			\	2 Busine	-	•	-		Redu		•		Excel - NJ Regulatory	
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9	1b) Email/Cell/Fa					-1		ect Loca				Ft.	700	Jan i	routh	5 Busine	<u>_</u>			∮	I / Cat	tegory	R		EQuIS (specify below):	
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	1d) Send Report		er -	<u>w~ 240</u>	7 100	1 2d) Ouol	te/PO#	(If Apr	licable)			481	7		Other:		iya (O	tariu.			ic (PD	E)		Other:	
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	Lab Sample #	4) Customer Sample ID	Matrix	Date,	Time	ខឹ	Gra	\g	旦	E							None	MeOH	핍	NaOH	도	H2;	HNO3	Othe	9) Comments	
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	, ,	FM-1209-CØ71-Ø1	OT	177	1028		X	X									Ti				Ī			T	Concrete chips East	
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				-		L	_			<u>//2</u>	1/16	9 Z		\vdash		NA (8270D :60C SIM o)					DEP S			
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	Additional No	tes	-							-		_		\vdash		Specific R Intaminant								Γ	Cooler Temperature	
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HC Report of Analysis

Client: Tetra Tech Inc.

HC Project #: 6080101

Project: Fort Monmouth Bldg 1209

Sample ID: FM-1209-S004-02

Lab#: AC92682-001

Matrix: Soil

Collection Date: 7/29/2016

Receipt Date: 8/1/2016

% Solids SM2540G

Aroclor-1268

Analyte	DF	Units	RL	Result
% Solids	1	percent		82
EPH Category 2				
Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	73	ND
B 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

mg/kg

0.030

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

Analyte	 DF	Units	RL	Result	
% Solids	 1	percent		83	
EPH Category 2					
Analyte	DF	Units	RL	Result	
C9-C40	1	mg/kg	72	ND	
B 8082				and agent wi	
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	s SM	2540G
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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

70 CONGS CHILDAGO					
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	
Aroctor-1262	1	mg/kg	0.032	ND	
Aroclor-1268	1	ma/ka	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 SM254UG				
Analyte	DF	Units	RL	Result
% Solids	1	percent		82
EPH Category 2				
Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	73	ND
B 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

Lab#: AC92682-007

Matrix: Soil

Collection Date: 7/29/2016

Receipt Date: 8/1/2016

% Solids SM25400

% 30110S 3M2340G					
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	
Aroctor-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

Aroclor-1262

Aroclor-1268

% 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	ma/ka	0.030	0.052	

mg/kg

mg/kg

0.030

0.030

ND

ND

Hampton-Clarke, Inc. (WBE/DBE/SBE) 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004					CHAIN OF					cus	TOE	DY	Project # (Lab Use Only)							Page of				
Ph: 800-426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458				RECO								·	3) Reporting Re						uire	lease Circle)				
Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054			Hampton-Clarke wserosszesso-szesszes A Women-Owned, Disadvantaged, Small Business						es Ent						rehoi	Report Type					Electronic Deliv.			
Ph (Service Center): 856-780-6057 Fax: 856-780-6056 NELAC/NJ #07071 PA #68-00463 NY #11408 CT #			dan - and a series -								When Available:					Data Summary					Hazsite/CSV			
Customer Information			•	Project Information								1 Business Day (100%)*					Results + QC (Waste)					EnviroData		
→1a) Customer: Tech			2a) Project: Fort Monmouth								2 Business Days (75%)*					NJ Reduced				,	Excel - NJ Regulatory			
Address: 1093 Commerce Park Dr. Ste 100											3 Business Days (50%)*					. (NY Reduced					Excel - NY Regulatory		
Dak Ridge TN 37830					2b) Project Mgr. Mikael Spangl							bena	· ' '					s)*	PA Reduced					Excel - PA Regulatory
1b) Email/Cell/Fax/Ph: Rob Rdon 407-448-9553												onm	5 Business Days (25%)					3)	Full / Category B					EQuIS (specify below):
1c) Send Invoice to: Maureen McMyler 865-220-4					TYCZ NT							10 Business Days (Stand.					'						4-File/EZ/NYS/Reg. 2 or 5	
1d) Send Report to: Maureen Hollyler			2d) Quote/PO # (If Applicable): 481												Electronic (PDF)					Other: PDF				
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ONLY						+ >	/																	
↓ ↓	DW - Drinking Water S - Soil A - Air						77	0																
Batch #	3	Sludge				3-7	12																	
10000	WW - Waste Water OL - Oil OT - Other (please specify under item 9, Comments)					18	3	6											8)					
AC72682	46726824					8	西	8270										# of		ttles				
1)		5)	6) Sam	ple	Composite (C) Grab (G)											۱.	Ī	o e	I		8	<u>م</u>	اليا	
Lab Sample #	4) Customer Sample ID	Matrix	Date,	Time	Composi Grab (G)	BE	3	PA								None	МеОН	En Core	NaOH	단	H2S04	HNO3	Othei	9) Comments
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-006	FM-1209-50/20-01			1021	X	X	$\perp \times$	X								!						$oxed{oxed}$		
1-007	FM-1209-5021-01			1026	X	JX	\bigvee	X								1								
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10) Relinquis	shed by:	311111111111111111111111111111111111111	Δc	cepter	d bv:			Da	te	Time	-358117		F .42	Cr	mmer	nts N	lotes	. Sne	cial	Rea	uire	men'	ts. H	AZARDS
									Comments, Notes, Special Requirements, HAZARDS Indicate if low-level methods required to meet current groundwater standards (SPLP for soil): Special Requirements, HAZARDS															
The all world									1//		currer	nt grou	indwater sta	er standards (SPLP for soil): NIDEP GWOS										
De Mandell					\rightarrow	B/ 4	8/1/16 10:15			BN OF BNA (8270D SIM) VOC (8280C SIM or 8041) NJDEP SRS								5						
											SPLP (BN, BNA, Metals)								NJDEP SPLP Other (specify):					
										Check if applicable: Project-Specific Reporting Limits														
Additional Notes									High Contaminant Concentrations										Cooler Temperature					
												NJ LSRP Project (also check boxes above/right)												
														ler (print nar		ila	_ LF	- 4		lade -			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.													

HC Report of Analysis

Client: Tetra Tech Inc.

HC Project #: 6080222

Project: Fort Monmouth Bldg 1208

Sample ID: FM-1208-S004-01

Collection Date: 8/1/2016 Lab#: AC92726-001 Receipt Date: 8/2/2016

Matrix: Soil

% 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	
Aroctor-1248	1	mg/kg	0.028	ND	
Aroclor-1254	1	mg/kg	0.028	ND	
Aroclor-1260	1	mg/kg	0.028	ND	
Aroctor-1262	1	mg/kg	0.028	ND	
Aroclor-1268	1	ma/ka	0.028	ND	

Sample ID: FM-1208-S004-01 FD

Lab#: AC92726-002

Matrix: Soil

Collection Date: 8/1/2016

%	Sol	lids	SM	254	40G	ì
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Analyte	DF	Units	RL	Result
% Solids	1	percent		88
J EPH Category 2				•
Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	68	ND
CB 8082				
Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.028	ND
Aroclor-1016	1	mg/kg	0.028	ND
Aroctor-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

6 Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		87
IJ 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

% 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	
Araclor-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	
Aroctor-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

%	Solid	s SM25	540G
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% 501105 5W12540G				
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

%	So	lids	SM	254	0G
---	----	------	----	-----	----

Analyte	DF	Units	RL	Result
% Solids	1	percent		86
J EPH Category 2				
Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	70	330
CB 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

0 001100 011120+00				
Analyte	DF	Units	RL	Result
% Solids	1	percent		88
IJ EPH Category 2			•	
Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	68	ND
CB 8082	•	11900		
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
Aroctor-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

%	So	lids	SM	2540G
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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	
Aroctor-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

% \$ c	lids	SM254	10G
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Analyte	DF	Units	RL	Result
% Solids	1	percent		86
EPH Category 2				
Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	70	ND
B 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

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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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Site Remediation News 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;
 - 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;
 - 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;
 - 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-nitrosodin-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.

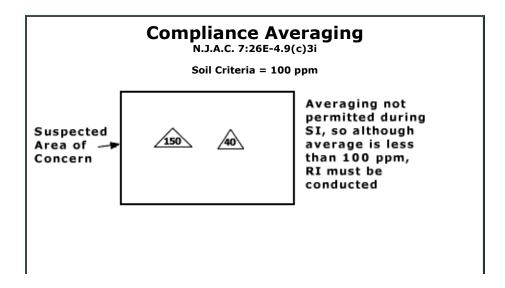
Therefore, the following approach may be used if, after completion of a remedial investigation, contaminated soils at an area of concern are not in compliance with a Soil Cleanup Criterion after averaging, but the data indicate that there is only a de minimis amount of contaminated soil. The department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

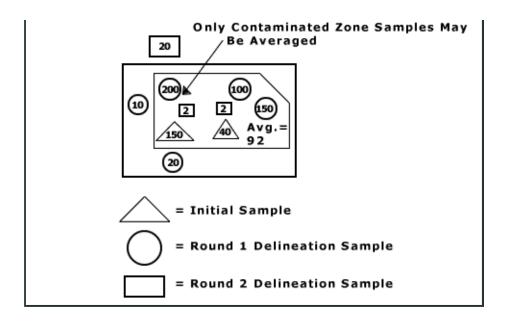
- a. Contaminant levels are "moderate"; that is, below the multiplication factor limits or ceiling levels, and below the 10,000 ppm total organic limit and the 1,000 ppm total volatile organic limit;
- Since the multiplication factor limits are applied to health-based numbers, the restrictions applicable 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:
 - Data from clean fill used to replace contaminated soils in the area of concern cannot be included to calculate the average;
 - 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
 - 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

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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

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	marked and labeled/placar Exporter, I certify that the	ded, and are in all respect contents of this consignment imization statement identified need Name	nereby declare that the contexts in proper condition for transent conform to the terms of the field in 40 CFR 262.27(a) (if I	nsport according to a ne attached EPA Ackr	oplicable inter nowledgment	national and nat of Consent. (b) (if I am a sma	ional governm	ental regulations		ipment and I	am the Prim	Year
40 1	International Shipments	ATTHEN C	-KN-161		A do	and the second the second	es ^a			10	2 3 6	160
Tra	nsporter signature (for expo			Export fro	om U.S.	Port of en Date leav		e de				
	Fransporter Acknowledgmen		The Name of State of		0.							
Iran	sporter 1 Printed/Typed Na	ne			Signature	- 449	on the firm a			Mo	nth Day	Year
Tran	sporter 2 Printed/Typed Na	me	- X		Signature			7		Mo	nth Day	Year
18. [Discrepancy											
18a.	Discrepancy Indication Spa	Quantity		Туре	M	Residue	Number	Partial Re	jection		Full Rej	ection
18b.	Alternate Facility (or Gener	ator)		T. K.	IVIE	illiest Nelerence	e number.	U.S. EPA ID	Number	, page		
	lity's Phone: Signature of Alternate Facil	ity (or Generator)					10.009			Mo	onth Day	/ Yea
19. I	Hazardous Waste Report M	anagement Method Codes 2.	s (i.e., codes for hazardous v		osal, and recy	vcling systems)		4.				
	Designated Facility Owner of ted/Typed Name	r Operator: Certification of	receipt of hazardous mater	ials covered by the m	anifest excep	t as noted in Iter	n 18a			Ma	nth Day	Year
1	. Near nome		te.	1	- grature					I	ıııı Day	I