FINAL

REMOVAL ACTION COMPLETION REPORT FOR FTMM-47

FORT MONMOUTH, OCEANPORT, MONMOUTH COUNTY, NEW JERSEY

BRAC 05 Facility Contract W912DY-09-D-0062 Task Order: 0012, Project No. 369857

Submitted To:

U.S. Army Engineering and Support Center Huntsville, Alabama



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June 2018

1.0 OVERVIEW

This Removal Action Completion Report (RACR) summarizes construction activities for the time-critical removal action under the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601 et seq., as amended ("CERCLA") that occurred unexpectedly during the Toxic Substances Control Act (TSCA) self-implementing on-site cleanup of polychlorinated biphenyl (PCB)-impacted concrete within Installation Restoration Program (IRP) Site FTMM-47 at Buildings 1002, 1208, and 1209 at U.S. Army Fort Monmouth (FTMM) (Figure 1). Removal of PCB-contaminated soil at Buildings 1002, 1208, and 1209 started in December 2015 and was completed by August 2016, as summarized in this RACR. The soil removal work occurred during the removal of PCB-contaminated concrete within the buildings under TSCA. After removing PCB-contaminated concrete, PCB-contaminated soil was also encountered and subsequently removed during the same mobilization to meet remedial action objectives. The Army had no prior knowledge that soil removal would also need to be performed.

The Army is the lead agency for FTMM under CERCLA, its implementing regulations, the National Contingency Plan at 40 CFR Part 300 ("NCP"), and Executive Order 12580, and is responsible for selecting the final response action for the site. New Jersey Department of Environmental Protection ("NJDEP") is the state support agency under CERCLA and the NCP. As a result of the removal actions described herein, the Army has determined that no additional response actions are required at FTMM-47. The Army has consulted with NJDEP concerning the response actions for FTMM-47, and NJDEP concurs with Army's determination.

1.1 Site Description and History

Between 1989 and 1990, all electrical transformers were tested for PCB content at FTMM. A total of 33 transformers, including those in Buildings 1002 (located within Environmental Condition of Property [ECP] Parcel 55), 1208 (Parcel 106), and 1209 (Parcel 107), were found to be PCB transformers (defined as transformers with oil concentrations greater than 500 parts per million PCBs). Following this testing, PCB transformers at FTMM were either replaced or refurbished with non-PCB-containing oil. Subsequent documents (Weston, 1993 and 1995) provided the results of visual inspections and sampling and analysis of soil and concrete underlying former PCB transformers at FTMM, including the FTMM-47 former PCB transformer sites, to determine if there was evidence of leakage.

1.2 Previous Investigations

Concrete chip samples were collected at stained areas on the concrete pads or vault floors in December 1994 to determine whether PCB contamination existed at FTMM-47. 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. All three results exceeded the (then-proposed) NJDEP indoor surface cleanup criteria of 0.055 mg/kg (Weston, 1995).

2.0 OBJECTIVE

The Army undertook the FTMM-47 removal action in accordance with the cleanup and disposal options for PCB remediation waste under TSCA (Title 40 of the Code of Federal Regulations [CFR] §761.61) and the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601 et seq. (CERCLA). The removal action was undertaken to reduce potential risks of exposure to human health, welfare, and the environment via removal of the source waste materials (PCB impacted soil).

2.1 Cleanup Standard

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.

3.0 REMOVAL ACTION

Building 1002

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

In December 2015, an approximately 8.5-foot by 6.5-foot by 6 inches thick slab of PCB-impacted concrete was removed, and sub-slab soil samples were collected at 17 locations as well as concrete samples at two adjacent locations (Figure 2). Multiple Aroclor detections exceeded the total Aroclor RDCSRS of 0.2 mg/kg and the total Aroclor NRDCSRS of 1.0 mg/kg (Table 1).

In August 2016, an additional 2-foot by 2-foot section of the PCB-impacted concrete slab was removed and soil was 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 3).

Building 1208

The removal actions at Building 1208 were performed by Tetra Tech, Inc. between December 2015 and July 2016 (Appendix B). Initially, a slab of PCB-impacted concrete was removed (approximately 16-foot by 7-foot by 4 inches thick). Fifteen sub-slab soil samples and 6 concrete samples were collected at 19 locations (Figure 4). Multiple concrete samples exceeded the Aroclor RDCSRS of 0.2 mg/kg (Table 2), which has also been used for comparison to concrete samples in New Jersey.

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).

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Soil was then excavated to a depth of 0.5 feet below where the concrete slab was removed. Six soil samples and 1 duplicate were collected at or adjacent to previous PCB exceedances and analyzed for PCBs and EPH (Figure 5).

Building 1209

The removal actions at Building 1209 were performed by Tetra Tech, Inc. between December 2015 and July 2016 (Appendix B). Initially, a slab of PCB-impacted concrete was removed (approximately 12-foot by 6-foot by 4 inches thick). Nineteen sub-slab soil samples and 6 concrete samples were collected at 19 locations (Figure 6). Multiple soil and concrete sample results exceeded the Aroclor RDCSRS of 0.2 mg/kg (Table 3).

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 7).

4.0 DEMONSTRATION OF COMPLETION

All confirmation soil and concrete sample results were below the TSCA and NJAC 7:26E unrestricted use standards (Appendices A and B). Therefore, additional remediation is not planned for Buildings 1002, 1208, and 1209.

5.0 ONGOING ACTIVITIES

There are no ongoing activities at FTMM-47.

6.0 COMMUNITY RELATIONS

A Fact Sheet was created to describe the removal action work performed and to document successful completion of the removal action at FTMM-47. The Fact Sheet is included as Appendix C of this RACR and was made available for public review in the FTMM Environmental Restoration Public Information Repository (the Administrative Record) at the Monmouth County Library, Eastern Branch, 1001 Route 35, Shrewsbury NJ 07702. The Fact Sheet was made available for a 30-day public review and comment period from 10 July 2018 to 8 August 2018. Appendix D includes the public press release regarding the Fact Sheet and the public notice requesting comments. The Fact Sheet was also posted on the Fort Monmouth IRP website (http://www.pica.army.mil/ftmonmouth/).

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7.0 CERTIFICATION STATEMENT

Under penalty of law, I certify that to the best of my knowledge, after appropriate inquiries of all relevant persons involved in the preparation of the report, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

William R. Colvin

BRAC Environmental Coordinator

U.S. Army Fort Monmouth

28 June 2018

Date

8.0 REFERENCES

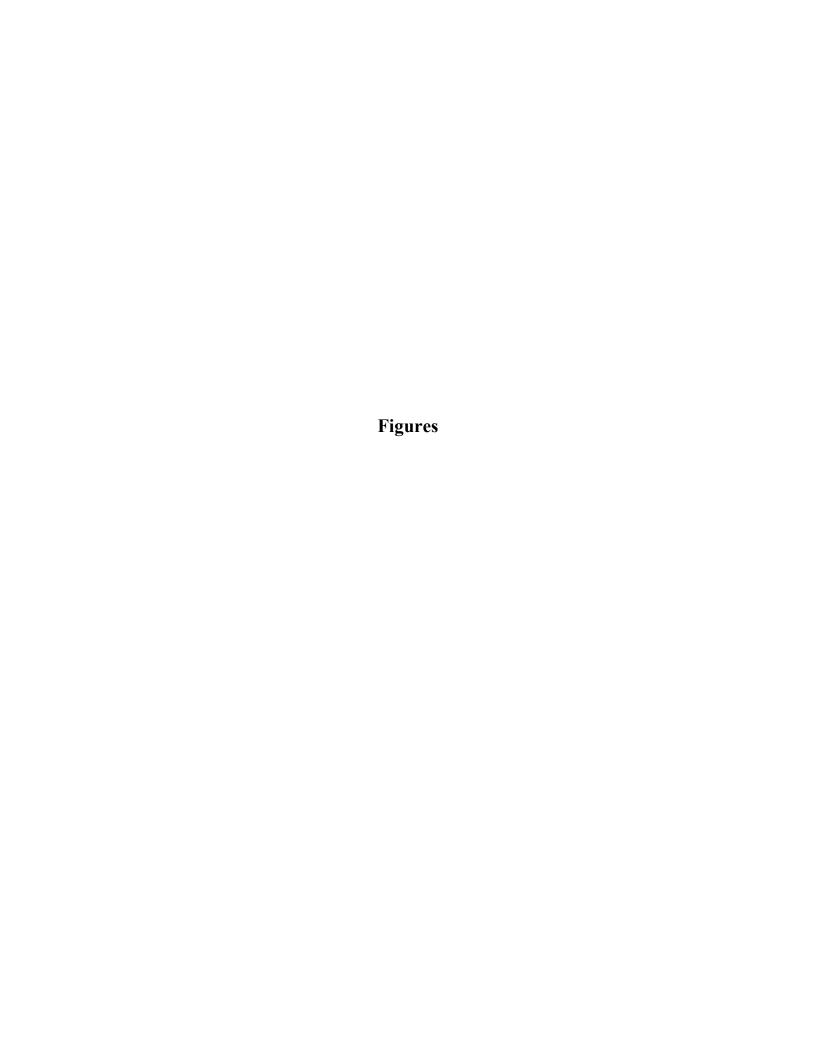
United States (US) Army Base Realignment and Closure (BRAC), 2007. *Environmental Condition of Property Report – Fort Monmouth, Monmouth County, New Jersey*. Final. January 29.

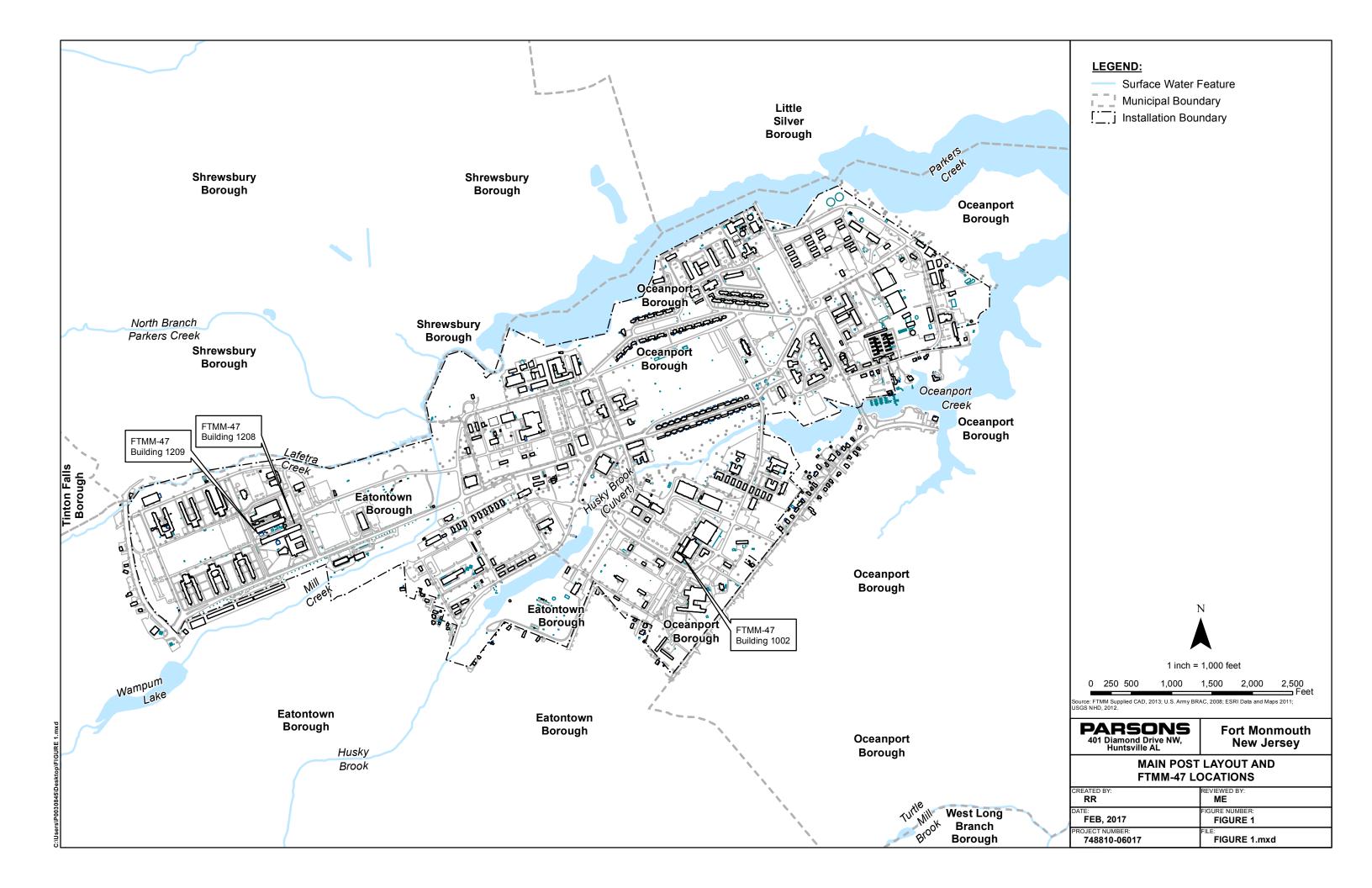
US Army BRAC, 2008. Site Investigation Report, Fort Monmouth. Final. July 21.

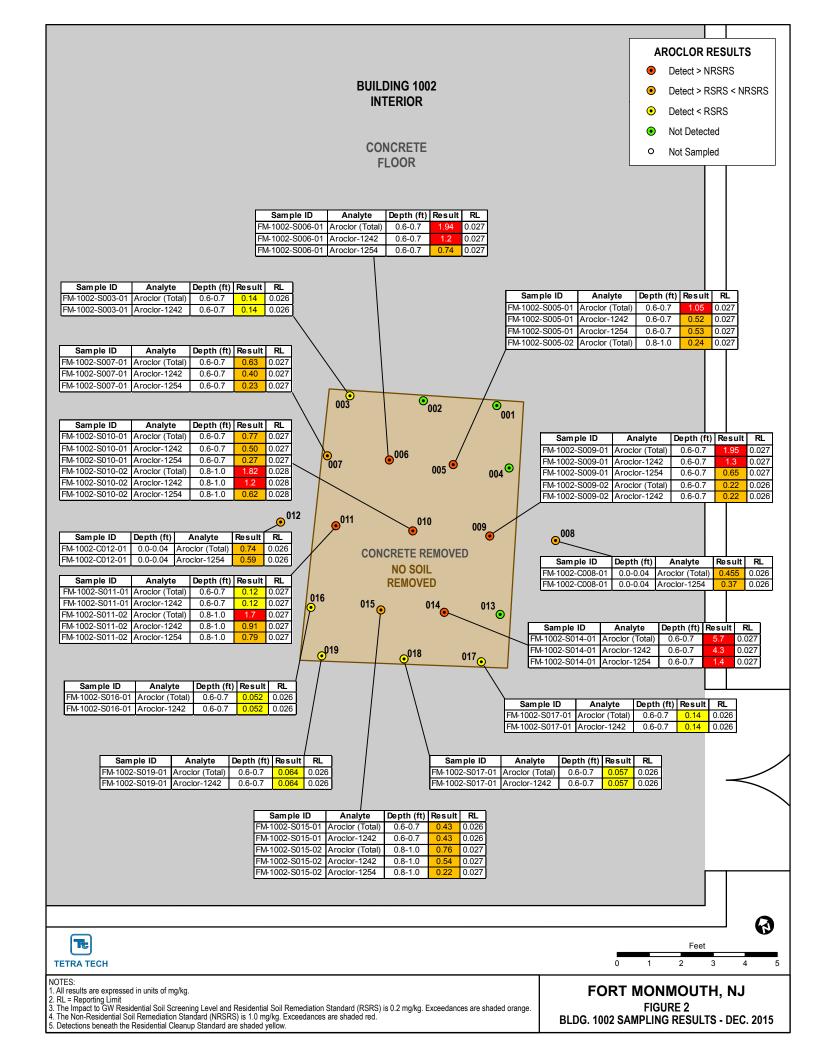
US Army BRAC, 2017. Request for No Further Action at FTMM-47, Site Investigation Report Addendum, Fort Monmouth, New Jersey. June 6.

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.

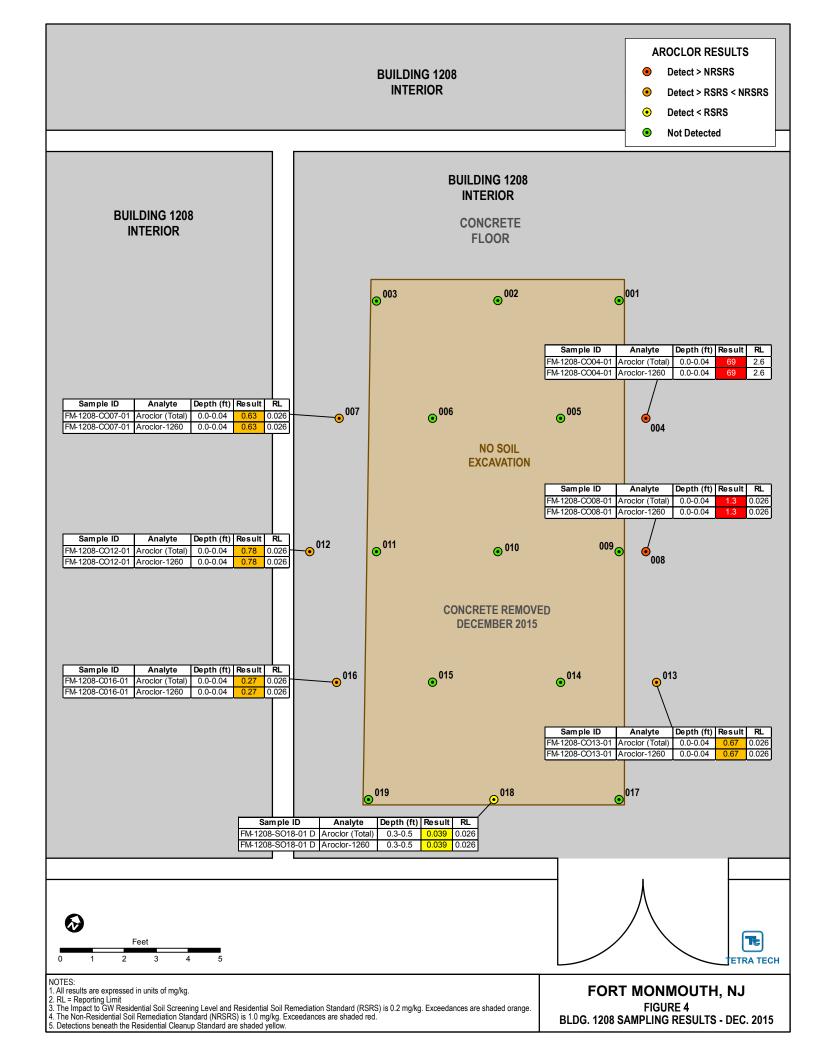






AROCLOR RESULTS Detect > RSRS < NRSRS Detect < RSRS \odot Not Detected **BUILDING 1002** Not Sampled **INTERIOR CONCRETE FLOOR** Sample ID Analyte Depth (ft) Result RL FM-1002-S012-01 Aroclor (Total) 2.0-2.1 0.027 FM-1002-S012-01 Aroclor-1242 2.0-2.1 0.027 Sample ID Analyte Depth (ft) Result RL FM-1002-S023-01 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 3

BLDG. 1002 SAMPLING RESULTS - JULY 2016

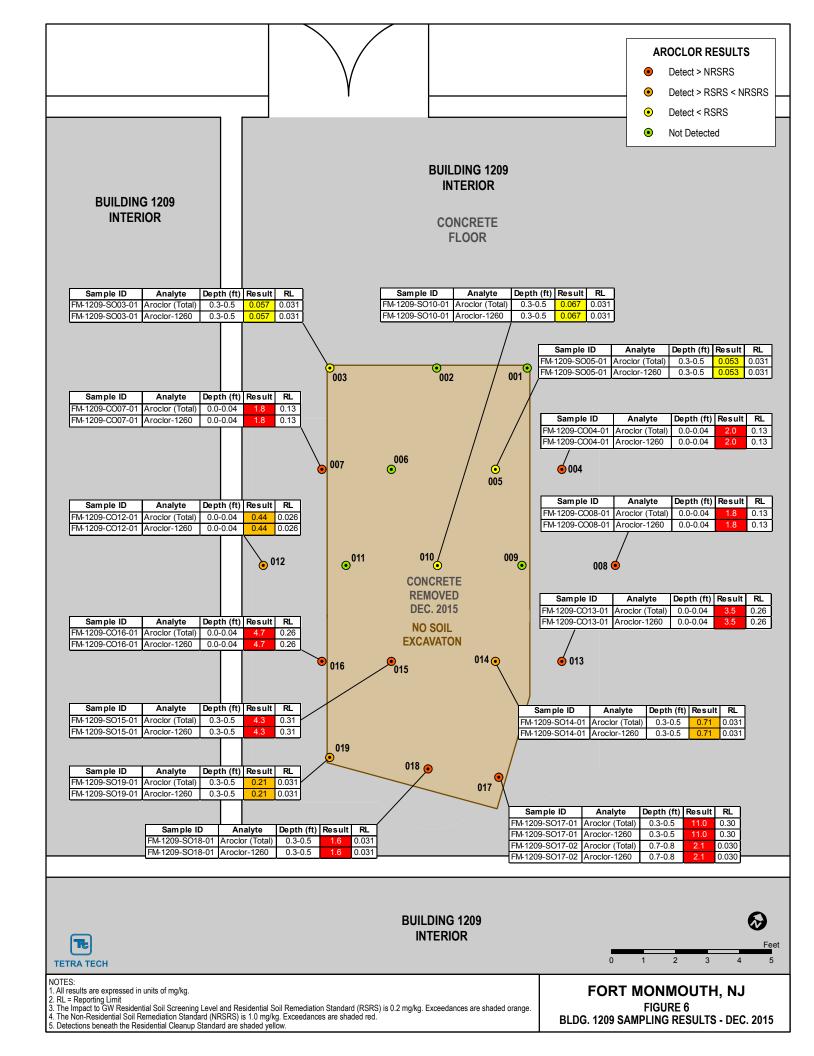


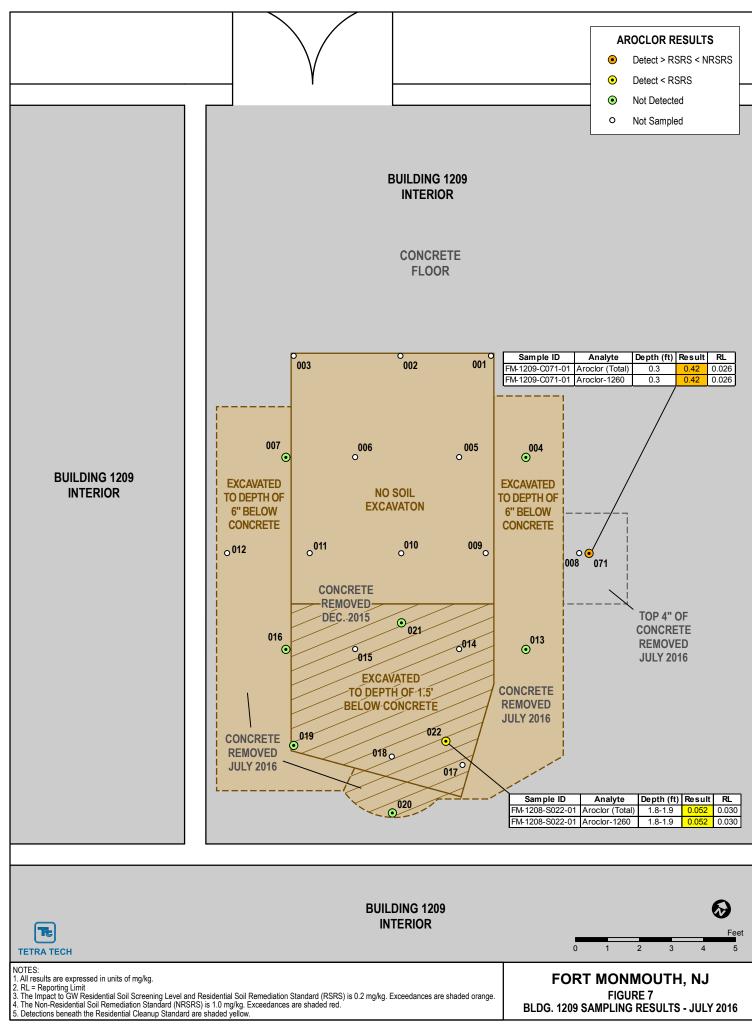
AROCLOR RESULTS **BUILDING 1208** Detect < RSRS **INTERIOR** • **Not Detected** Not Sampled **BUILDING 1208 INTERIOR BUILDING 1208 CONCRETE INTERIOR FLOOR** 0001 0002 0003 Sample ID Analyte Depth (ft) Result RL **⊙**⁰⁰⁴ ·•• 007 0006 0 005 FM-1208-S007-01 Aroclor (Total) 0.29 0.8-0.9 FM-1208-S007-01 Aroclor-1260 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 009 0 011 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 7 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 5 **BLDG. 1208 SAMPLING RESULTS - JULY 2016**





FORT MONMOUTH, NJ

FIGURE 7 **BLDG. 1209 SAMPLING RESULTS - JULY 2016**



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

			Analtyic	al Method	EPA 8082A	EPA 8082A	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	Aroclor-1254	Aroclor-1260
				Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
				S (mg/kg)	0.2	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	1
		Start	End									
	Collection	Depth	Depth									
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

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
			RSR	S (mg/kg)	0.2	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	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

			-		EPA 8082A	EPA 8082A
					Aroclor-1262	
				Units	mg/kg	mg/kg
				S (mg/kg)	NA	NA
				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

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	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 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
			•	Parameter	Aroclor (Total)	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
			RSR	S (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-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

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 (Total)	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
NRSRS (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

milligrams per kilogram
New Jersey Department of Environmental
Protection Soil Remediation Standards (June
2, 2008) Residential critieria.
New Jersey Department of Environmental
Protection Soil Remediation Standards (June
2, 2008) Non-Residential critieria.
Field Duplicate
Not Detected
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.

NRSRS criteria shown.

Detected result exceeds RSRS and exceeds

Notes:

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

			Analytic	al Method	EPA 8082A	EPA 8082A	EPA 8082A
			-			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	(ft bgs)	-	Matrix			
FM-1208-CO04-01	12/18/2015	0	0.04	Concrete	69	ND	ND
FM-1208-CO07-01	12/18/2015	0	0.04	Concrete	0.63	ND	ND
FM-1208-CO08-01	12/18/2015	0	0.04	Concrete	1.3	ND	ND
FM-1208-CO12-01	12/18/2015	0	0.04	Concrete	0.78	ND	ND
FM-1208-CO13-01	12/18/2015	0	0.04	Concrete	0.67	ND	ND
FM-1208-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

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			
			NRSR	S (mg/kg)	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 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

PCB Remediation at Building 1209 Excavation Confirmation PCB Sample Results

Fort Monmouth, New Jersey

Analtyical Method					EPA 8082A	EPA 8082A	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				
	0.2	0.2	0.2	0.2	0.2	0.2				
NRSRS (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										
						Aroclor-1268				
			mg/kg	mg/kg	mg/kg	mg/kg				
			0.2	0.2	NA	NA				
			1	1	NA NA	NA NA				
	NRSRS (mg/kg) Start Depth End Depth					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		

PCB Remediation at Building 1209 Excavation Confirmation PCB Sample Results

Fort Monmouth, New Jersey

			EPA 8082A	EPA 8082A	EPA 8082A	EPA 8082A		
			Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268		
			mg/kg	mg/kg	mg/kg	mg/kg		
			0.2	0.2	NA	NA		
			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.

Appendix A 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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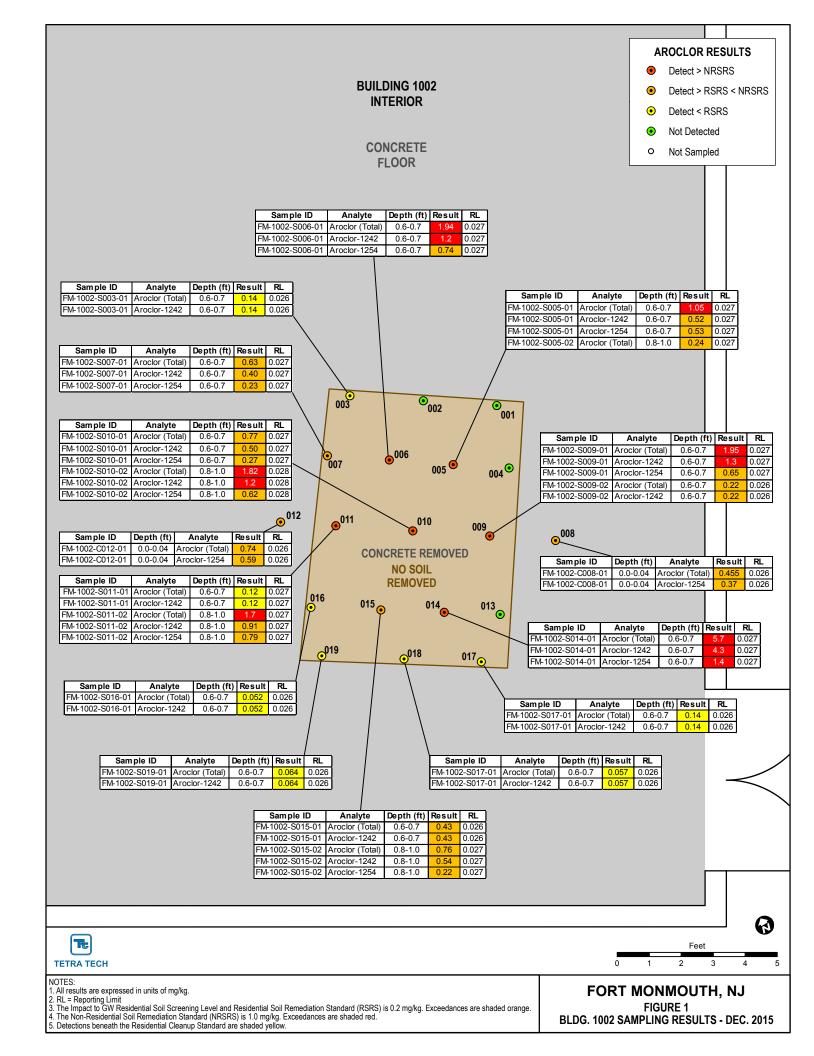
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ATTACHMENT 1 FIGURES



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 **⊙**008 009 **CONCRETE REMOVED** DEC. 2015 **CONCRETE REMOVED CONCRETE** 016 O ⊙⁰²¹ **JULY 2106** O015 014_O **REMOVED JULY 2016** 013 0019 o⁰¹⁸ 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

			Analtyic	al Method	EPA 8082A	EPA 8082A	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	Aroclor-1254	Aroclor-1260
				Units	mg/kg	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	0.2
			NRSR	S (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-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
			RSR	S (mg/kg)	0.2	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	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	NJEPHRev3B			
	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

				al Method	EPA 8082A	EPA 8082A				
	Paramet									
Unit										
	S (mg/kg)	0.2	mg/kg 0.2							
			1	1						
	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	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 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 Depth (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	NRSR Start Depth End Depth LabSampleID	Collection Depth (ft bgs) End Depth (ft bgs) LabSampleID Matrix 8/2/2016 2 2.1 AC92742-001 Soil 8/2/2016 2 2.1 AC92742-002 Soil 8/2/2016 2 2.1 AC92742-003 Soil 8/2/2016 2 2.1 AC92742-004 Soil 8/2/2016 2 2.1 AC92742-005 Soil 8/2/2016 2 2.1 AC92742-006 Soil 8/2/2016 2 2.1 AC92742-007 Soil 8/2/2016 2 2.1 AC92742-008 Soil	RSRS (mg/kg) 0.2 NRSRS (mg/kg) 1 Collection Depth (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 0.46 8/2/2016 2 2.1 AC92742-005 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 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	DF	U	nits	RL		Result	
Aroclor (Total)	1	mg	g/kg	0.025		ND	
Aroclor-1016	1	mg	g/kg	0.025		ND	
Aroclor-1221	1	mg	g/kg	0.025		ND	
Aroclor-1232	1	mg	g/kg	0.025		ND	
Aroclor-1242	1	mg	g/kg	0.025		ND	
Aroclor-1248	1	mg	g/kg	0.025		ND	
Aroclor-1254	1	mg	g/kg	0.025		ND	
Aroclor-1260	1	mg	g/kg	0.025		ND	
Aroclor-1262	1	mg	g/kg	0.025		ND	
Aroclor-1268	1	mg	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	126	

 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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· · · · · · · · · · · · · · · · · · ·					,	Samp	oler (pr	int nam	ie): (0	139	X	91	~		Date	1.7.1.7.10							
	Plea						ase n	ote N	UMBE	RED it	ems	. if n	ot co	mple	eted y	our	anal	ytica	I work may be delayed.						
													A ree	OT \$5	samp	ole will b	e ass	essec	tor st	orage	snould	sam	ipie n	ot pe a	activated for any analysis.

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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	DF	Units	RL	Result
% Solids	1	percent		94
8082				
Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S002-01

Lab#: AC88799-003

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

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

	%	Solids	SM2540G
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Analyte	DF	Units	RL	Result
% Solids	1	percent		93
3 8082				***************************************
Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	0.14
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	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
B 8082				
Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	ND
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	ND
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	ND
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S005-01

Lab#: AC88799-007

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

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	T POWER S		
Analyte	DF	Units	RL	Result
Aroclor (Total)		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			11 W 100 V 100 V 100 V 1	
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	
B 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 1	Units percent	RL	Result
% Solids				90
PCB 8082				TO THE STATE OF TH
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
Aroctor-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
8082				
Analyte	DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.027	1.7
Aroclor-1016	1	mg/kg	0.027	ND
Aroclor-1221	1	mg/kg	0.027	ND
Aroclor-1232	1	mg/kg	0.027	ND
Aroclor-1242	1	mg/kg	0.027	0.91
Aroclor-1248	1	mg/kg	0.027	ND
Aroclor-1254	1	mg/kg	0.027	0.79
Aroclor-1260	1	mg/kg	0.027	ND
Aroclor-1262	1	mg/kg	0.027	ND
Aroclor-1268	1	mg/kg	0.027	ND

Sample ID: FM-1002-S013-01

Lab#: AC88799-017

Matrix: Soil

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

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	
EB 8082			10.001.01	·····	
Analyte	DF	Units	RL	Result	
Aroclor (Total)	1	mg/kg	0.027	ND	
Aroclor-1016	1	mg/kg	0.027	ND	
Aroclor-1221	1	mg/kg	0.027	ND	
Aroclor-1232	1	mg/kg	0.027	ND	
Aroclor-1242	1	mg/kg	0.027	ND	
Aroclor-1248	1	mg/kg	0.027	ND	
Aroclor-1254	1	mg/kg	0.027	ND	
Aroclor-1260	1	mg/kg	0.027	ND	
Aroclor-1262	1	mg/kg	0.027	ND	
Aroclor-1268	1	mg/kg	0.027	ND	

Sample ID: FM-1002-S014-01

Lab#: AC88799-019

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

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
3 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
Aroctor-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	t	mg/kg	0.026	ND
Aroclor-1262	1	mg/kg	0.026	ND
Aroctor-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			· wow.	
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	
Aroclor-1268	1	mg/kg	0.028	ND	

Sample ID: FM-1002-S018-01 FD

Lab#: AC88799-025

Matrix: Soil

Collection Date: 12/16/2015

Receipt Date: 12/17/2015

Analyte	DF	Units	RL	Result
% Solids	1	percent		91
B 8082			· con agen	
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 Notes		Ward! Wall	Ko Kon	10) Relinquished by:	1-010 PM-10	1-001 FM-100	72		0 -	L		-003 PM-1002-	-002 FM-1002-SD01-02	DZ	Lab Sample # 4) Cu	1,001/1		Batch # GW -	ONLY DW-	USE	FOR LAB		1d)Send Report to:	1c)Send Invoice to:	1b)Email/Cell/Fax/Ph:		1a)Customer: 1/9/2	\setminus		Service Center: 137-D Ph (Service Co	1/5 Route 45 West at Ph: 800-426-9992 9
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Page 2 of 3		5	2116	\$			STODY	Suo	CHAIN OF CUS	£		ጎ	T		2	ersey 070	id, New J	ad, Fairfie	175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004	oute 46 Wo	175 R	<u> </u>
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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	

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		Additional Notes		1	Dalla	Rob Rober	10) Relinquished by:				8	008	A CAILBONIES	1014 F	N03 F		100	Lab Sample #		N (3850)	Datch #	↓ ONLY	USE	FOR LAB		1d) Send Report to:	1c) Send Invoice to:	1b) Email/Cell/Fax/Ph:	l i	Address:	1a) Customer:		Ph (S	Service Cente	175 Route 46
		l i ŏ		1) will the		ed by:				M-12172015-78-01	M-12172015-18-01	10-1002 - 2001 - MA	FM-1002-CO12-02	174-1002-co12-01	FM-1002-0008-02	PM-1002-C008-01	4) Customer Sample ID		WW - waste water OL - Oll OT - Other (please specify under item 9, Comments)	_	Matrix Codes DW - Drinking Water S - Soil				Maureen.	Mikael. S	4	Oak Ridge TN	merce i	Tetra Tech	NELAC/NJ #07071 F	Ph (Service Center): 856-780-6057 Fax: 856-780-6056	Ph.: 800-426-9992 9/3-244-9//0	175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
							Accepted by:				OT - 132	OT.	S S S	0T 1245 hrs	OT Rech		07 12/17/15 1258	Matrix Date, Time	5) 6) Sample	OL - OII ify under item 9, Comments)	dge	rix Codes S - Soil A - Air	===> Check If Contingent ===>			memy ler a tetratech, a:20) Quote/PO # (If Applicable):	spanabora@ tebratech.)	Park In: She loc	lion	NELAC/NJ #07071 PA #68-00463 NY #11408 CT #PH-0671 KY #90124 DE HSCA Approved	ax: 856-780-6056	aurel, New Jersey 08054	field, New Jersey 07004
							d by:	1	2	<u></u>	73 < <	5: \(\lambda \)	7 N	ns VV	hs VV	₹ < <	3 < <	Grat		te (C)		Sample Type	gent ===>	7)		(If	MO	2c) Project Location (City/State):	2b) Project Mgr:	_	2a) Project:	PH-0671 KY #90124	A Women-Own	Hampton-Cli	Į
				, , ;	12/21/15 4	12 18 121	Date	12/17/2	00,5															7) Analysis (speci	- N		Oceanport	n (City/State):	Mi)Kae	impacted.	. 12	DE HSCA Approved	A Women-Owned, Disadvantaged, Small Business Enterprise	arke	H H
-0[:	<u>-1</u>	П	Che	09:30		好2000年	Time	20 5	1															(specify methods		ICO-TEN	NJ	H. May	Spanab	ocations	Removal		mall Business I	אר כי א	CHAIN OF CUSTODY
Please note NUM A fee of \$5/sa	o۱	High Contar	ᆜᄋ	SPLP (BN, BNA, Metals)	BN or BNA (8270D SIM)	je je je je je je je je je je je je je j						-												& parameter lists)		-T3356		north	erg		to POSC		Enterprise	Ê	STODY
MBERED items. If I	name):	High Contaminant Concentrations NJ LSRP Project (also check boxes above/right)	○ if applicable: Project-Specific Reporting I imits	SPLP (BN, BNA, Metals)	(8270D SIM)	All If Jow-level methods required to meet between the meet standards (SPLP for soil):	Comments, Notes, Special Requirements, HAZARDS				2	2)					Non					<=== C/		- Expedited	Other:	10 Business Days (Stand.)	5 Business Days (25%)	4 Business Days (35%)*	3 Business Days (50%)*	2 Business Days (75%)*	When Available:	Turnaround	<i>⇔</i> (<u>ر</u> ا
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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				****
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

70 OOHG3 OHIZ540O					
Analyte	DF	Units	RL	Result	
% Solids	1	percent		91	
NJ EPH Category 2		•	***		
Analyte	DF	Units	RL	Result	
C9-C40	1	mg/kg	66	ND	
PCB 8082					-
Analyte	DF	Units	RL	Result	
Aroclor (Total)	1	mg/kg	0.027	ND	
Aroclor-1016	1	mg/kg	0.027	ND	
Aroclor-1221	1	mg/kg	0.027	ND	
Aroclor-1232	1	mg/kg	0.027	ND	
Aroclor-1242	1	mg/kg	0.027	ND	
Aroclor-1248	1	mg/kg	0.027	ND	
Aroclor-1254	1	mg/kg	0.027	ND	
Aroclor-1260	1	mg/kg	0.027	ND	
Aroclor-1262	1	mg/kg	0.027	ND	
Aroclor-1268	1	mg/kg	0.027	ND	

Sample ID: FM-1002-S022-01

Lab#: AC92742-008

Matrix: Soil

Collection Date: 8/2/2016 Receipt Date: 8/3/2016

% Solids SM2540G				
Analyte	DF	Units	RL	Result
% Solids	1	percent		92
NJ EPH Category 2				
Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	65	ND
PCB 8082		W 100 1 100		2
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 Committee Co
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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		Additional Notes		,,	Did	M	10) Relinquis	ordar	& &	808	007	900	005	P09	83	200	8	Lab Sample #		462742	Batch #	← Z	200	FOR LAB	ome. **	1d) Send Report to:	1c) Send Invoice to:	1b) Email/Cell/Fax/Ph:		Address:	1a) Customer:		Ph (Service Cel	175 Route
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							\	TR/MSD>	S		3	S	<u> S </u>	S	B S	S	S	Matrix	5)	under item s	OL - Oil	r S-Soil	٦ŀ			HeMyler	Myler 8	457-1	3783C	> 날.		PA #68-0046	Fax: 856-780	Laurel, New J	airfield, New J
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\$5/sample will be	Sampler (print name):	High Contaminant Concentrations NJ LSRP Project (also check boxes above/right)	cable:	VOC (8260C SIM or 8011) SPLP (BN, BNA, Metals)	BN or BNA (8270D SIM)	Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):	Comments																			Other:	10 Business Days (Stand.)	5 Business Days (25%)	4 Business Days (35%)*	3 Business Days (50%)*	2 Business Days (75%)*	When Available:	Turnaround		
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lease note NUMBERED items. If not completed your analytical work may be delayed. A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.	. (Cooler Temperature	17).	r.	₹.	For NJ LSRP projects, indicate which standards need to be met:	ZARDS	15/MS)		-	Field Duplicate		:	_	field Dupliante			9) Comments							Please Check With Lab.	Other:	4-File/EZ/NYS/Reg. 2 or 5	EQuIS (specify below):	Excel - PA Regulatory	Excel - NY Regulatory	Excel - NJ Regulatory	Hazsite/CSV	Electronic Deliv.	ase Circle)	of _

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

NJ Home | Services A to Z | Departments/Agencies | FAQs | Search | All of NJ V |

newjersey department of environmental protection

Site Remediation Program

Crumb1 Crumb2 Current

SRP Home | DEP Home

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.

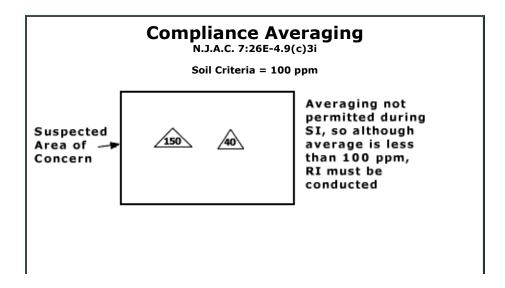
Therefore, the following approach may be used if, after completion of a remedial investigation, contaminated soils at an area of concern are not in compliance with a Soil Cleanup Criterion after averaging, but the data indicate that there is only a de minimis amount of contaminated soil. The department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

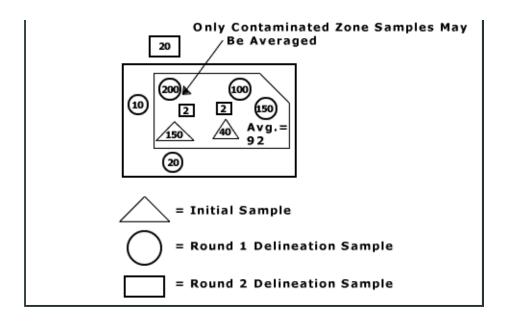
- a. Contaminant levels are "moderate"; that is, below the multiplication factor limits or ceiling levels, and below the 10,000 ppm total organic limit and the 1,000 ppm total volatile organic limit;
- Since the multiplication factor limits are applied to health-based numbers, the restrictions applicable 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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Department: <u>NJDEP Home | About DEP | Index by Topic | Programs/Units | DEP Online</u>

Statewide: NJ Home | Services A to Z | Departments/Agencies | FAQs

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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

\$ 595163

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

Sold To:

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

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

22591

Date:

08/31/2016

P.O. #:

1118785

Job #: Terms: 14485

SM:

Net 45

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Timothy J. Roper EG

Date	Description	Amount
	Project Location: Fort Monmouth, NJ	
	Tetra Tech Prime Contact: W912DY-10-D-0015	
	Transportation and disposal invoice:	
	Transportation of five (5) roll-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

\$54,843.60

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.

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BILL OF LADING FCI EPA ID NO. NJD054126164

\$ 590773

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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: 1266872

EQ Account #: 1070

Manifest / BOL: 011852570JJK

Transporter: FCI

Date: 08/04/2016 Time In: 4:38 PM

Time Out: 5:54 PM

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



INCELLUED CANTAGE INC.

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

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

RI RI-535

White - FCI Original Yellow - FCI Billing

MA MA-294

Blue - FCI Office/Customer Green - Retained by TSDF Gold - Retained by Generator MN UPW-0190713-OH

\$590931

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	18a C	Discrepancy Indication Spa	ce Quantity	Тур	e	Residue Manifest Referer	sco Number	Partial Rej	ection	Full Rejection		
LITY	18b. A	Alternate Facility (or Gener	ator)			HIGHREST NEEDS	ice monuel.	U.S. EPA ID N	umber			
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DESIGNĄTED FACILITY		Signature of Alternate Facil								Month Day Year		
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		of Course Manager	Operator: Certification of re-	ceipt of nazardous materials			tem 18a	5		Months Plan Van-		
	· ····································	ro/Typed Name	N -		Signa	atul 6				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	Qty. Unit
Filtre	Generator	
1 - 1	1150185WDI - PCB Concrete	21.020 TONS
	Hazardous Surcharge Ton	21.020 TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST	
	Gross: 78,600 Tare: 36,560 Net: 42.040	
2	Wayne Disposal Host Community Agreement Royalty Fee	21.020 TONS
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST	
	Gross: 78,600 Tare: 36,560 Net: 42,040	



FREEHOLD CARTAGE INC.

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

BILL OF LADING FCI EPA ID NO. NJD054126164

\$ 590772

350 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005 Fav: (302) 658,6220

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

5533 Dunham 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

1 444 (504) 500 0223	Pax: (003) 333-	1017	rax: (330)	333-37-34		F4X. (3/U)	J121/JU/	1 ax. (003)	113-2942	
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										10.
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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

Form Approved, OMB No. 2050-0039 Please print or type. (Form designed for use on elite (12-pitch) typewriter.) 4. Manifest Tracking Number 2. Page 1 of 3. Emergency Response Phone UNIFORM HAZARDOUS 1. Generator ID Number 732-613-1680 NJ321002659/ WASTE MANIFEST Generator's Site Address (if different than mailing address) 5. Generator's Name and Mailing Address US Dept of Army Fort Monapoulti - Main Post Man Post Fort Marianouth, NJ 07703 P O Box 148 Oceanport, NJ 07757 U.S. EPAID Number Generator's Phone: NOTO 054126164 6. Transporter 1 Company Name Freehold Cartaine U.S. EPA ID Number 8. Designated Facility Name and Site Address AMERICAN SPECIE Mayne Imposal lite shelf? Landill 49 June 1 ma Service Little Bette abo, Mr. 40111 Facility's Phone: {\table (0.00) \table (0.0 12: Unit 10. Containers 11. Total 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, 13 Waste Codes WL/Vol. Quantity 9a. Type No. and Packing Group (if any)) ROJ DROBAGE, Polynhonnakod Englannyia, Sight, Eduture, Clares y Profil MA Ka Calle GENERATOR Trid = 895 Box oces 14. Special Handling Instructions and Additional Information Truck + 8% LIGHTHOWER POS Sons Concrete Rex # 4405 AMILIO E TERBUMP GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I cerufy that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true. Year Month Generator's/Offeror's Printed/Typed Name Warne Port of entry/exit. Export from U.S. 16. International Shipments Import to U.S. Date leaving U.S.: Transporter signature (for exports only) 17, Transporter Acknowledgment of Receipt of Materials Year Day TRANSPORTER Month Transporter 1 Printed/Typed Name Transfer Some Year Month Signature Transporter 2 Printed/Typed Name 18. Discrepancy Full Rejection Partial Rejection Residue 18a. Discrepancy Indication Space Manifest Reference Number U.S. EPA ID Number 18. Alternate Facility (or Generator) DESIGNATED FACILITY Day Month Facility's Phone: 18c. Signature of Alternate Facility (or Generator) 18. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems) 20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Year Printed/Typed Name

Wayne Disposal, Inc. 49350 North 1-94 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	:= 1:	Qty. Unit	
1 - 1	I150185WDI - PCB Concrete	N _e	20 950 TONS	
	Hazardous Surcharge Ton	10	20.950 TONS	
	NJ3210020597 US DEPT, OF ARMY-FORT MONMOUTH MAIN POST			
	Gross: 78,980 Tare: 37,080 Net: 41,900			
2	Wayne Disposal Host Community Agreement Royalty Fee		20.950 TONS	
	NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST			
	Gross: 78,980 Tare: 37,080 Net: 41,900			



FREEHOLD CARTAGE INC.

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

BILL OF LADING FCI EPA ID NO. NJD054126164

S 590953

350 Pigeon Point Road New Castle, DE 19720 Phone: (302) 658-2005 Fax: (302) 658-6229 175 Bartow Mun. Airport Bartow, FL 33830 Phone: (863) 533-4599 Fax: (863) 533-1613 5533 Dunham Road Maple Heights, OH 44137 Phone: (330) 835-3473 Fax: (330) 835-3732 108 Monahan Avenue Dunmore, PA 18512 Phone: (570) 342-7232 Fax: (570) 342-7367 132 Myrtle Beach Hwy Sumter, SC 29153 Phone, (803) 773-2611 Fax: (803) 773-2942

SHIPPER NAME/ADDRESS		PHONE						1 1 1		
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SHIPPER'S CERTIFICATION: This is to certify the transportation according to the applicable regulation.	ons of the Departr	nent of Ti	ransportation, U.S	EPA and the	State The	e materi	als described above v	rere consigne	d to the Tran	tion for isporter
named. The consignee can and will accept the shi	pment and has a	valid pem	nit to do so if requ	ired. I certify th	at the fore	egoing is	s true and correct to th	e best of my k	nowledge.	
Payment to the contractor for waste removal does not the contractor.	ot constitute paym	ent to the	carrier and if the	contractor does	not pay th	e carrie	r, the shipper is obligate	ed to pay the a	greed rate of	fered to
PLEASE PRINT NAME/TITLE		SHI	PPER'S SIGNAT	URE				DATE LOADE	D y	
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Ple	ase print or type. (Form designed for us					Form Approved OMB No. 2050-003
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Н	5. Generator's Name and Mailing Address	12 HG John F	31	1 732 613 (CO)		52563 JJK
Н	Chilloga J Amry Euro Manual	noutive Infant Print		Generator's Site Address (if diffe	rent than making address)	
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Ш	Generator's Phone 6. Transporter 1 Company Name				U.S. EPA D Number	
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П	7 Transporter 2 Company Name	14 C C C C C C C C C C C C C C C C C C C		16	U.S. EPA ID Number	J. J. 188 7
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	Facility's Phone:				1	
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	Exporter, I certify that the contents of the	his consignment conform to the terms of the stement identified in 40 CFR 262.27(a) (if I	e attached EPA Acknow	redoment of Consent.		
	Concepted at Office and Drief at Council Name					· Month Day Year
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<u>_</u>	18b. Alternate Facility (or Generator)			14 Mennest Meistende Millio	U.S. EPA ID Number	
딩				•		
F	Facility's Phone:		92		1	
	18c. Signature of Alternate Facility (or General	rator)				Month Day Year
NAI					223	
DESIGNATED FACILITY	19. Hazardous Waste Report Management I	Method Codes (i.e., codes for hazardous w	aste treatment, disposa	, and recycling systems)	=	
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ī		15).	3/2	
	20. Designated Facility Owner or Operator: 0	Certification of receipt of hazardous materia	als covered by the man	fest except as noted in Item 18a		
	Printed/Typed Name T	Marion process		nature /	() m.m	Month Day Year
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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: 1266731 EQ Account #: 1070

Manifest / BOL: 011852553.JJK

Transporter: FCI

Date: 08/02/2016 Time In: 8:58 AM

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4 !		Time Out: 10:19 AM
Line	Description	
	Generator	Qty. Unit
1 - 1	I150185WDI - PCB Concrete	
	Hazardous Surcharge Ton	29 360 TONS
	NJ3210020597 US DEPT, OF ARMY-FORT MONMOUTH MAIN POST	20 350 TONS
	Gross: 78,020 Tare: 37,300 Mat: 40,770	
-	Wayne Disposal Host Community Agreement Royalty Fee	20 360 TONS
	NJ3210020597 US DEPT, OF ARM 7-FORT MONMOUTH MAIN POST	
	Gross: 78,020 Tare: 37,300 Net: 40,720	

ATC)

PREEDUDU 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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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

Hazardous Surcharge Ton

Receipt ID: 1267058 EQ Account #: 1070

Manifest / BOL: 011852566JJK

Transporter: FCI

20.300 TONS

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Wayne Disposal Host Community Agreement Royalty Fee

NJ3210020597 US DEPT. OF ARMY-FORT MONMOUTH MAIN POST

Gross: 77,720 Tare: 37,120 Net: 40,600

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Appendix B 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

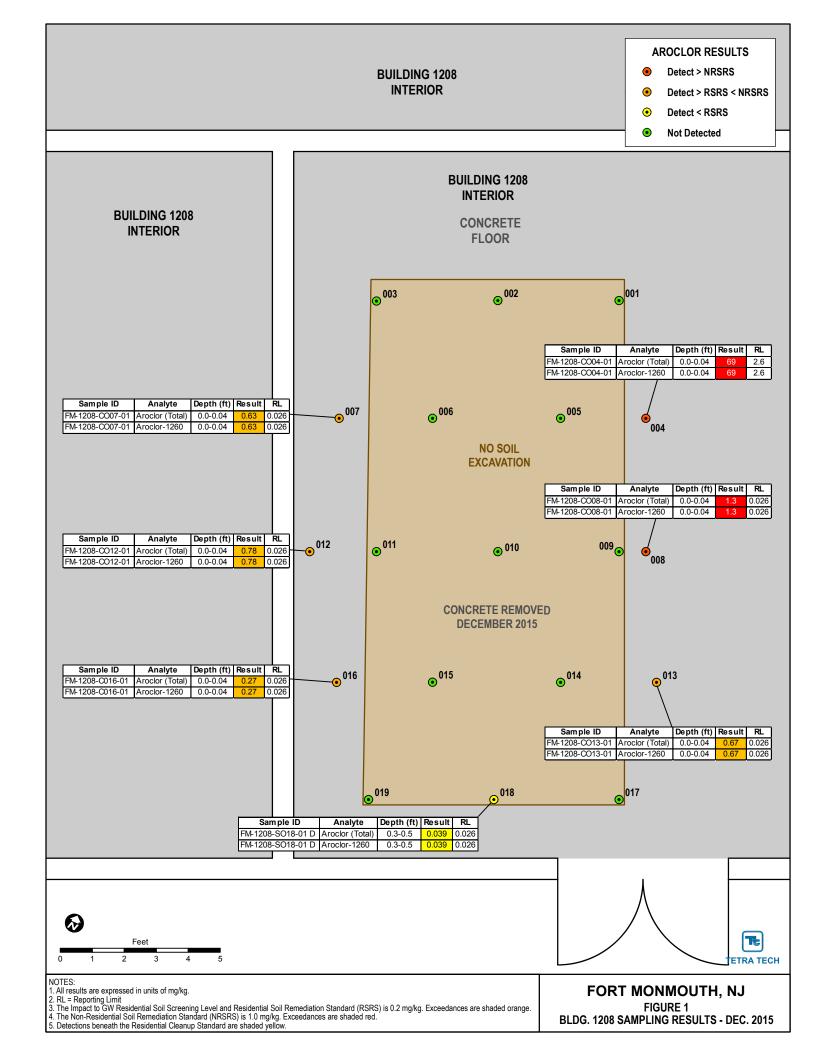


Document Distribution List

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

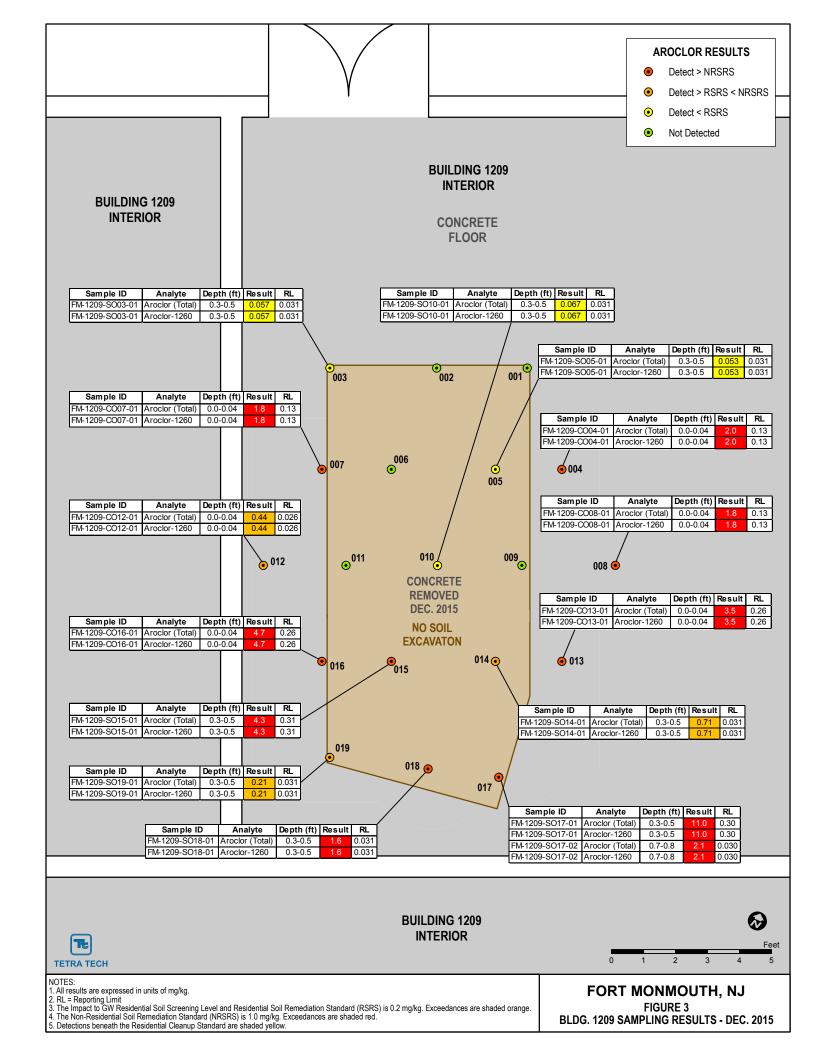


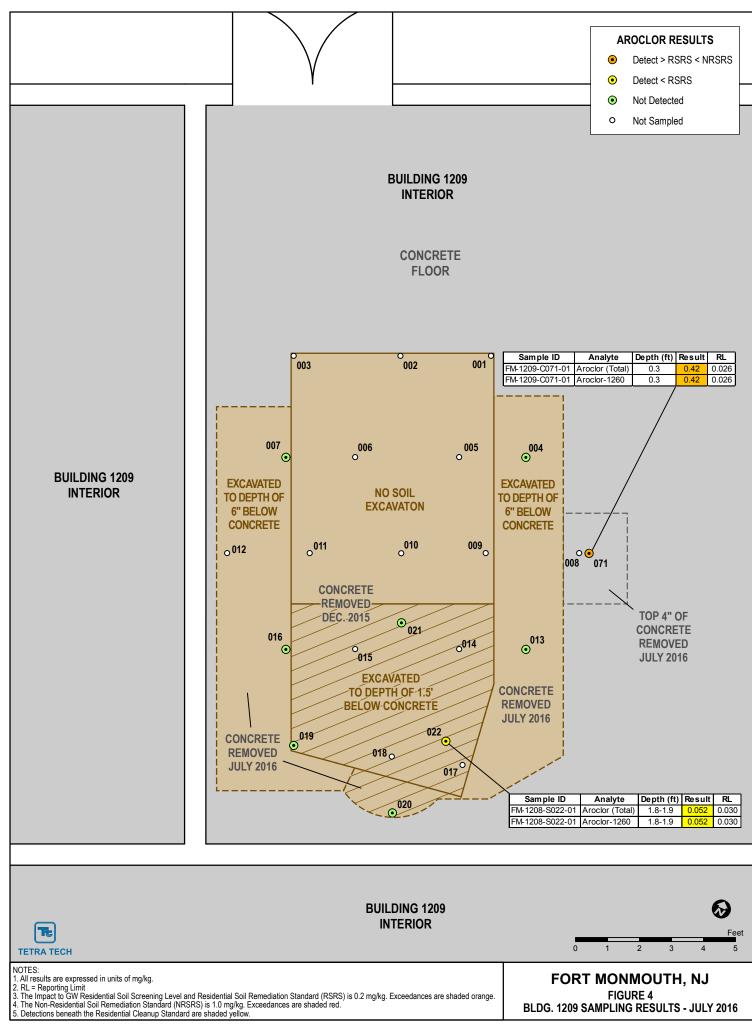
AROCLOR RESULTS **BUILDING 1208** Detect < RSRS **INTERIOR** • **Not Detected** Not Sampled **BUILDING 1208 INTERIOR BUILDING 1208 CONCRETE INTERIOR FLOOR** 0001 0002 0003 Sample ID Analyte Depth (ft) Result RL **⊙**⁰⁰⁴ ·•• 007 0006 0 005 FM-1208-S007-01 Aroclor (Total) 0.29 0.8-0.9 FM-1208-S007-01 Aroclor-1260 0.8-0.9 0.29 **EXCAVATED EXCAVATED** TO DEPTH OF **NO SOIL** TO DEPTH OF 6" BELOW **EXCAVATION 6" BELOW CONCRETE CONCRETE** ·• 012 **o**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
1					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 (Total)	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
			RSR	S (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
		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	(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							
	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-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						
Parameter .			Aroclor (Total)	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248		
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg		
RSRS (mg/kg)			0.2	0.2	0.2	0.2	0.2	0.2		
			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 many ic					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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	Analtyical Method						EPA 8082A	EPA 8082A
Parameter A					Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Units					mg/kg	mg/kg	mg/kg	mg/kg
RSRS (mg/kg)					0.2	0.2	NA	NA
	NRSRS (mg/kg)				1	1	NA	NA
		Start Depth	End Depth					
Sample ID	Collection Date	(ft bgs)	(ft bgs)	Matrix				
FM-1209-S013-02	7/29/2016	0.8	.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							
	0.2	0.2						
	RSRS (mg/kg) NRSRS (mg/kg)							
		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	NJEPHRev3B
			Pa	rameter	C9-C40
	mg/kg				
	(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	ЮG
---	-----	------	----	-----	----

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	

.....

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
3 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	% 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 1 1 Table 1001	 1	mg/kg	0.031	ND	
Aroclor-1248		1	mg/kg	0.031	ND	
Aroclor-1254		1	mg/kg	0.031	ND	
Aroclor-1260		1	mg/kg	0.031	ND	
Aroclor-1262	*****	 1	mg/kg	0.031	ND	**************************************
Aroclor-1268		1	mg/kg	0.031	ND	

Sample ID: FM-1209-SO10-01

Lab#: AC88851-014

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result	
% Solids	1	percent		80	
PCB 8082					
Analyte	DF	Units	RL	Result	
Aroclor (Total)	1	mg/kg	0.031	0.067	
Aroclor-1016	1	mg/kg	0.031	ND	
Aroclor-1221	1	mg/kg	0.031	ND	
Aroclor-1232	1	mg/kg	0.031	ND	
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	yte DF Units		RL	Result	
% Solids	1	percent		98	
PCB 8082					
Analyte	DF	Units	RL	Result	
Aroclor (Total)	10	mg/kg	0.26	4.7	
Aroclor-1016	10	mg/kg	0.26	ND	
Aroclor-1221	10	mg/kg	0.26	ND	
Aroclor-1232	10	mg/kg	0.26	ND	
Aroclor-1242	10	mg/kg	0.26	ND	
Aroclor-1248	10	mg/kg	0.26	ND	
Aroclor-1254	10	mg/kg	0.26	ND	
Aroclor-1260	10	mg/kg	0.26	4.7	
Aroclor-1262	10	mg/kg	0.26	ND	
Aroclor-1268	10	mg/kg	0.26	ND	

Sample ID: FM-1209-SO17-01

Lab#: AC88851-027

Matrix: Soil

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

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 % Solids	DF 1	Units	RL	Result	
		percent		79	
PCB 8082					
Analyte	DF	Units	RL	Result	
Aroclor (Total)	1	mg/kg	0.032	0.071	
Aroclor-1016	1	mg/kg	0.032	ND	
Aroclor-1221	1	mg/kg	0.032	ND	
Aroclor-1232	1	mg/kg	0.032	ND	
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

፠	Sn	lids	SM	1254	വദ

Analyte	DF	Units	RL	Result	
% Solids	1	percent		98	
B 8082				· · · · · ·	
Analyte	DF	Units	RL	Result	
Aroclor (Total)	100	mg/kg	2.6	69	
Aroclor-1016	100	mg/kg	2.6	ND	
Aroclor-1221	100	mg/kg	2.6	ND	
Aroclor-1232	100	mg/kg	2.6	ND	
Aroclor-1242	100	mg/kg	2.6	ND	- ·· ·· • ·· ·
Aroclor-1248	100	mg/kg	2.6	ND	
Aroclor-1254	100	mg/kg	2.6	ND	
Aroclor-1260	100	mg/kg	2.6	69	
Aroclor-1262	100	mg/kg	2.6	ND	
Aroclor-1268	100	ma/ka	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	DF	Units	RL	Result
% Solids	1	percent		87
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
Arocior-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				-
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	
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
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
Aroctor-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				
Analyte	 DF	Units	RL	Result
Aroclor (Total)	1	mg/kg	0.029	ND
Aroclor-1016	1	mg/kg	0.029	ND
Aroclor-1221	1	mg/kg	0.029	ND
Aroclor-1232	1	mg/kg	0.029	ND
Aroclor-1242	 1	mg/kg	0.029	ND
Aroclor-1248	1	mg/kg	0.029	ND
Aroclor-1254	1	mg/kg	0.029	ND
Aroclor-1260	1	mg/kg	0.029	ND
Aroclor-1262	 1	mg/kg	0.029	ND
Aroclor-1268	1	mg/kg	0.029	ND

Sample ID: FM-1208-SO18-01

Lab#: AC88851-061

Matrix: Soil

Collection Date: 12/18/2015

Receipt Date: 12/21/2015

% Solids SM2540G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86
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

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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Additional Notes		Walt		4	10) Relinguished hv.	OIV.		NX XX	8		35	14	255	2		Lab Sample #	•	NESSES)	Ratch #	Ų ↓ VNLY	USE	FOR LAB		1d)Send Report to:	1C)Send Invoice to:	1b)Email/Cell/Fax/Ph:		Address:	1a)Customer:		3	Service Ce	175 Route Ph: 800-42
) ies	•	Manny	200		shed hv.	FM-1209-0007-01	FM-1209-5006-01	FM-1209-S005-02	174-1209-SDOS-01	M-1209-COOH-01	174-1209-5003-02	FM-1209-5003-01	FM-1209-S002-01	FM-1209-S001-02	FY-1209-S001-01	4) Customer Sample ID		OT - Other (please specify under item 9, Comments)	_	Matrix Codes DW - Drinking Water S - Soil				Maureon	Mikael.		0	Commence ,	Tetm Tech	Customer Information	PR (SerVice Center): 856-780-6057 Fax: 856-780-6056 A momen-owned, Disadvaniaged, PR (SerVice Center): 856-780-6057 Fax: 856-780-6056 Fax:	Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey 08054	175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004 Ph: 800-426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458
			h			97	+		S	9	+				S	Matrix	5)	ify under item	SL - Sludge	Codes Soil	"			N/A/B	aberale		37820	10 X		ion	ax: 856-780 VA #68-0046	urel, New J	field, New J
			X		Accented by:	- 1023/le	\ ij24h	1119		09391	1058	10%	1050	1 1049	12/18/15/1045	Date. Time	6) Sample	9, Comments)		A - Air	Check If Contingent ===			mcmyler e tetratech. (2)12d) Quote/PO # (If Applicable):	tetartech.c			St 100		3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	J-6056 3 NY #11408 CT :	Jersey 08054	lersey 07004 373-439-1458
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		12/21	7	3) (6)																		7) Analysis (specify methods		licable):) Tru	2c)Project Location (City/State):	Millare	Marcha	Concrete	Project Information	A women-owned, Disagramaged, Small business Enterprise [KY #90124 DE HSCA Approved]	**	•
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High Contaminant Concentrations NJ LSRP Project (also check boxes above/right) Sampler (print name): asse note NUMBERED items. If not completed your A fee of \$5/sample will be assessed for storage should sar	Check if applicable: Project-Specific Reporting Limits	VOC (8260C SIM or 8011) SPLP (BN, BNA, Metals)	current groundwater standards (SPLP for soil): BN or BNA (8270D SIM)	e if low-l																		& parameter lists)		T3336		nooth	·		स्ट्र		irprise		TODY
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High Contaminant Concentrations NJ LSRP Project (also check boxes above/right) Sampler (print name): Date: lease note NUMBERED items. If not completed your analytical work may be delayed. A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.				For NNJ LSRP projects, indicate which standards						, •		:				9) Comments							Lab.		4-File/EZ/NYS/Reg. 2 or 5	EQuIS (specify below):	Excel - PA Regulatory	Excel - NY Regulatory	Excel - NJ Regulatory	٢	Electronic Deliv.	֓֞֜֜֜֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֡֓֓֓֓֡֓֓֡	
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		oles		"	Will the state of	Colon	shed by:	FM-1209-C013-01	174-1209-C012-01	TH 1287 - SOH CRIT	M-1209-5011-02	FM-1209-SO11-01	FM-1209-5010-02	FM-1209-SO10-01	HY-1209-5009-02	HM-1209-S009-01	PM-1209-COO8-01	4) Customer Sample ID		Ci - Oner (prease specify under nem 3, comments)	WW - Waste Water OL	GW - Drinking Water S -	at		20 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A		Marian.	ž. 4	X X	1093 Commerce	Customer Information Tech	NELAC/NJ #07071 PA #68-00463 NY #11408 CT #PH-0671 KY #90124 DE HSCA Approved	Ph (Service Center): 856-780-6057 Fax: 856-780-6056	Ph.: 800-426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458 Service Center: 137-D Gaither Drive Mount aurel New Jersey 08054	Hampton-Clarke, Inc. (WBE/DBE/SBE) 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
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note NUM of \$5/sa	1) Sampler (print name):	High Contaminant Concentrations NJ LSRP Project (also check boxes above/right)	Check if applicable: Project-Specific Reporting Limits	SPLP (BN, BNA, Metals)	BN or BNA (8270D SIM)	Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):																			parameter lists)	Ш	7				_		8	-	٩
MBERED	name):	ninant Co oject (als	cific Rep	SNA, Met	8270D S	ethods rec standards (Commer		ļ <u>-</u>	\prod											<u> </u>				sts)		10 Business Days (Stand.)	5 Business Days (25%)	4 Business Days (35%)*	3 Business Days (50%)*	1 Business Day (100%)* 2 Business Days (75%)*	When	Tur		•
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Additional Notes		Pulle	ઝ જા	10) Relinquished by:							08	1 2000	Lab Sample #	ACKS \$5	ONLY	USE		1d) Send Report to:	1c) Send Invoice to:	1b) Email/Cell/Fax/Ph:	Address:	1a) Customer:		Service Centi	Ph: 800-426
I (A		and filled	ं	ed by:						PM-1208-5019-02	FM-1208-S019-01	FM-1208-SO18-CN	4) Customer Sample ID	WW - Waste Water OL - Oil OT - Other (please specify under item 9, Comments)	DW - Drinking Water GW - Ground Water			· Maureen.		Ph. Kidge	1093 Commerce	Customer Tedyn Te	NELAC/NJ	Service Center: 137-D Gairner Drive, Mount Laurel, New Jersey 08054 Ph (Service Center): 856-780-6057 Fax: 856-780-6056	1/3 Koule 4b West and Z Madison Koad, Fairfield, New Jersey 1/104 Ph. 800-426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458
			Q							9-02 1	9-01	5-01 S		specify under	Matrix Codes ter S - Soil er SL - Sludge	6		- 1	/ 6	3		Customer Information	NELAC/NJ #07071 PA #68-00463 NY #11408 CT #PH-0671 KY #90124 DE HSCA Approved	0-6057 Fax: 85	Fax: 973-244-97
		The state of the s	J. An						\parallel	1		े ।।य।१८/।ऽ	5) 6) Si Matrix Pate,	item 9, Comme	es A - Air ge	ΙŸ		MCTV/16 & tetateon, Clad) Quote/PO # (If Applicable):	spundage betalech.c	3/860	Dr. Ste		⊷00463 NY #11	6-780-6056	87 973-439-14
			Market 1	Accepted by					las	1819 WS	1817 195	s 1813)hs	6) Sample pos		s	Check If Contingent ===>	100000000000000000000000000000000000000	jeun, coliza		20 20	8	2a	408 CT #PH-06	¥ —	58
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		12/2/	12/18	Pate			<i>' }</i>	1								/) Analysis		If Applicable):	deanpar	on (City/State):	impacted	Project I	DE HSCA App	A Women-Owned, Disadvantaged, Small Business Enterprise	larke
		15 9:30	s 21α	Time		7/18	1/5/									Analysis (specify methods &		100-	\sim	» A		nform	roved	aged, Small B	RECORI
11) Sa	Check i		Indicate			1200												30	U.T.	Transport	ocations !	Removal for		usiness Enter	ECORD
High Contaminant Concentrations NJ LSRP Project (also check boxes above/right) Sampler (print name):	SPLP (BN, BNA, Metals) k if applicable:	BN or BNA (8270D SIM) VOC (8260C SIM or 8011)	2) Color Indicate if low-level methods required to meet													parameter lists)		-1534/0				PCB		prise	
ninant Conc ject (also c jame):	NA, Metals	8270D SIM)	ethods require	Comments, Notes, Special Requirements, HAZARDS			#						None					Other:	10 Business Days (Stand.)	4 Business Days (35%) 5 Business Days (25%)	3 Business Days (50%)*	1 Business Day (100%)* Business Days (75%)*	When Available:	Turnaround	
entrations heck boxe			d to meet	Notes, Sp									MeOH En Core	#		<=== Check If Contingent <===		Expedited TAT Not Always Available.	ays (Stand.)	ys (35%)" ys (25%)	ys (50%)*	y (100%)* ys (75%)*	ailable:	ound	ි Repo
s above/ı		 []] 2 2	ecial Rec		#							NaOH HCI	8) # of Bottles		If Contin		Electro	Category A	Full / Catego	NY Reduced	Results + QC NJ Reduced	Data S	Re	ting Rec
ight)	NJDEP SPLP Other (specify	NJDEP GWQS	NNJ LSRP p	uirement									H2SO4 HNO3			gent <===	810		γA,	PA Reduced Full / Category B	luced	Results + QC (Waste) NJ Reduced	Data Summary	Report Type	Reporting Requirements (Please Circle)
Date:	NJDEP SPLP Other (specify):	GWQS SRS	rojects, ind	s, HAZAR	$\vdash \vdash_{f}$	_				Hold		Field	Other:					Other:	4-F		י ה	$\overline{}$	E S		nts (Please
High Contaminant Concentrations NJ LSRP Project (also check boxes above/right) October Temperature Cooler Temperature Date:			For NNJ LSRP projects, indicate which standards need to be met:	DS	$ \ \ $					هـ		J	9) Comments					Other:Please Check with Lab.	4-File/EZ/NYS/Reg. 2 or 5	Excel - PA Regulatory EQuIS (specify below):	Excel - NY Regulatory	EnviroData Excel - NJ Regulatory	Hazsite/CSV	Electronic Deliv.	Circle)
erature			standards									plicate	ents						Reg. 2 or t	ulatory be/ow):	ulatory	ulatory	_	Deliv.	

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

	Additional Notes			J.		10) Relipquis							4-002	8	Lab Sample #	Ac92614	Batch #	←NLY	USE		Send Report to:	1C) Send Invoice to:	1b) Email/Cell/Fax/Ph:			71 (a) Customer:		Ph (Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey, 08054
	tes		X	H		ipquished by:	- marginary). 3. ddf.						FM-1209-(\$71-\$)	14-197-SW/07/0-01	4) Customer Sample ID	OT - Other (please specify under item 9, Comments)	GW - Ground Water SL - Sluwwww - Waste Water OL - Oil	Matrix Codes DW - Drinking Water S - Soil			Mayren Ikin	Moreon 110	10 40 HO	ak Ridge	3	Customer Information	NELAC/NJ #07071 P/	Ph (Service Center): 856-780-6057 Fax: 856-780-6056	Service Center: 137-D Gaither Drive, Mount Laurel, New Jersey
						Accepted by:	- Mac-				Last Eddy		OT 1 1028	S 7/27/14 0903	5) 6) Sample Matrix Pate, Time		SL - Sludge OL - Oil	A - Air	===> Check If Contingent ===:		ā	100 4-00-08	233/	37,830	D 38 10		A #68-00463 NY #11408 CT #PH	x: 856-780-6056	urel. New Jersey 08054
			,	1/2/1/		by: Date			\ .	7/27/16			×	×××	NJ EI	8062	t2	Sample -Hr 7 Stal old)	AT (T. M. Amplysis (s	La) Quote/PO # (If Applicable):		2c)Project Location (City/State):	2b) Project Mgr: Mikge		Project In Part Mr. Mr.	NELAC/NJ #07071 PA #68-00463 NY #11408 CT #PH-0671 KY #90124 DE HSCA Approved	A Women-Owned, Disadvantag	Hampton-Clarke
11) Sampler (print name):	High Cor	Check if applicable:	SPLP (BI	BN or BN	1250 Indicate if low-lev	Time			<u> </u>											(specify methods & parameter lists)	701/	101.7	It. Monitouth	Spangbe	97 (84,978)	Project Information The Monmo of	ved	A Women-Owned, Disadvantaged, Small Business Enterprise	
Sampler (print name): Date:	High Contaminant Concentrations NJ LSRP Project (also check boxes above/right)	able:	VOC (8260C SIM or 8011) SPLP (BN, BNA, Metals)	BN or BNA (8270D SIM)	Indicate if low-level methods required to meet current groundwater standards (SPLP for soil):	Comments, Notes, Spe	**************************************								None MeOH En Core	# of					Other: * Expedited TAT No	10 Business Days (Stand.)	5 Business Days (25%)	4 Business Days (35%)*	3 Business Days (50%)*	1 Business Day (100%)* 2 Business Days (75%)*	When Available:	Turnaround	a) Report
Date:	above/right)	Ciner (speciny):	NJDEP SPLP	NJDEP GWQS	For NJ LSRP projects, i need to be met:	Comments, Notes, Special Requirements, HAZARDS						+	C	क्त	NaOH HCI H2SO4 HNO3 Other:	# of Bottles	!		<=== Check If Contingent <===		Expedited TAT Not Always Available. Please C		Full / Category B	PA Reduced		Results + QC (Waste)	Data Summary	Report Type	a) Reporting Requirements (Flease Circle)
•	Cooler Temperature	<i>y</i> ;	ř	97	For NJ LSRP projects, indicate which standards need to be met:	ARDS						\\\-\\\-\\	Concrete chips ListHon	Boring Spy8 South	9) Comments						Other:Please Check with Lab.	4-File/EZ/NYS/Reg. 2 or 5	EQuIS (specify below):	Excel - PA Regulatory	Excel - NY Regulatory	EnviroData Excel - NJ Regulatory	Hazsite/CSV	Electronic Deliv.	Se CITCIE)

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

%	Solid	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 GOINGS GINESTAGE							
Analyte	ÐF	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 SM2540G

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

% Solids SM25400	%	Sol	ids	SN	125	40	G
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% 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	malka	0.030	0.052	

mg/kg

mg/kg

0.030

0.030

ND

ND

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		Additional Notes		(5		10) Relinguished by:	9-000	-007	2006	500		200	202	-00%	-W	Lab Sample #		k91682	Batch #	← Z	USE	FOR LAB		1d) Send Report to:	1c) Send Invoice to:	1b) Email/Cell/Fax/Ph:	nucireas.	Address:			Ph (Ph: 800-42	Hamp 175 Route
		les			West Mill		hed by:	14-1209-S\$22-\$1	17m-1209-5/021-01	FM-1209-50/20-61	FM- 1209-5619-63	19-14-101-A	174-1207-SO16-02	171-1209-5013-02	1911-1209-Salot-de	FM-1209-SOOM-02	4) Customer Sample ID		OT - Other (please specify under item 9, Comments)	WW - Waste Water OL	Yai				Mureen	Z.	Rob Rdar	Ox Ridge To	_	ston	NELAC/NJ #07071 PA #68-00463 NY #11408 CT #PH-0671 KY #90124 DE HSCA Approved	Ph (Service Center): 856-780-6057 Fax: 856-780-6056	Ph: 800-426-9992 973-244-9770 Fax: 973-244-9787 973-439-1458	Hampton-Clarke, Inc. (WBE/DBE/SBE) 175 Route 46 West and 2 Madison Road, Fairfield, New Jersey 07004
						P		4	-			Ť				S	Matrix	5)	under item	OL - Oil	S - Soil	2 ===>			Hchy)er	: 🔀		37830	7	tion	A #68-004	ax: 856-78	244-9787	field, New
				_	V		Ac	t							-,	7/23/16	Date,	6) Sample	9, Comment		A - Air	Check If Contingent =				86-220-	407-448-9553	-	₽		163 NY #1140	30-6056	973-439-1458	Jersey 07004
					1	3	Accepted by	103)	1026	022	1016		1012	233	<u>@</u>	<u>영</u>	Time					ontinge				7		3	3		8 CT #PH	,		
					1		by:	\geq	×	\times	\times		\times	×	×	×		npos ıb (G	ite (C)		Sample Type	nt ===>			2d) Quot	73	2c) Proje	2b) Project Mar	∠a) Project	30	1-0671 KY	A W	Ham.	T
				/		1111		X	X	X	X		X	X	X	X	P	B	8082	3	-Day	JA		h)	e/PO# (If	1	ct Location	et Mari	<u>۾</u> ا	ļ	#90124	bmen-Own	ampton-Ch	大
				1	20/	7/23	•	X		X	X		X	X	X	X	N P	3 E 4H	PH (827() (hold	17/	Malys	∤)	2d) Quote/PO # (If Applicable):		2c) Project Location (City/State):	<u> </u>	101	M Proje	DE HSCA	ed, Disado	arke	1
					1/6	٤	Pate																is (spec		ı.	Z	e):			Project Information	Approved	antaged,		CH,
					10:15	1630 h	Time	-			ļ <u>.</u>												Analysis (specify methods		184		工	Salarans	1979 NORMOUN	mation	ļ	A Women-Owned, Disadvantaged, Small Business Enterprise	REC	CHAIN OF CUSTODY
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se note I	mpler (p	ligh Cor	Check if applicable:	PLP (BI	N or By	if low-lev groundwa											_						& parameter lists)				ž					prise		YQO.
NUMBER 5/sample	Sampler (print name):	High Contaminant Concentrations NJ LSRP Project (also check boxes above/right)	ble:	SPLP (BN, BNA, Metals)	BN or BNA (8270D SIM)	icate if low-level methods required to meet rent groundwater standards (SPLP for soil):	Comi																r lists)		Uther:	10 Bus	5 Busii	4 Busin	- L Z BUSI	1 Busii	<u> </u>			· · · · · · · · · · · · · · · · · · ·
ED item		t Conce (also ch		Metals)	D SIM)	s required irds (SPLF	Comments, Notes, Special Requirements, HAZARDS			_	_	-		_	_		No	ne	[î		dx .	Other: See Selon	10 Business Days (Stand.)	5 Business Days (25%)	4 Business Days (35%)*	2 Business Days (/5%)* 3 Business Days (50%)*	1 Business Day (100%)*	When Available:	Turnaround		
s. If not		ntration leck box				to meet for soil):	lotes, S	-				1					Me	OH Core	*			<=== Check if Contingent <===	5 20 20 20 20 20 20 20 20 20 20 20 20 20	Expedited IAI Not Always Available.	10,	s (Stand	(25%)	(35%)*	(50%)*	(100%)*	lable:	nd	3) Rep	10 XXX (Lab use Unity)
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should s		ve/righ				need to	Reguir			-		-				-	HC	I 504	les			ntinger	•	/ays Ava	Electronic (PDF)	Category A	Full / Category B	PA Reduced	NJ Reduced	sults + C	Data Summary	Report Type	Requir	Š
ur analy	_	÷	Outer (a	NJDEP SPLP	NJDEP GWQS	LSRP probe met:	ements										HN					2 <===				,	ory B	<u>a</u> ;		Results + QC (Waste)	nary	t Туре	ements	
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ork may		Cooler 1	•	•		dicate wt	RDS		į			No sample					9) Co							Please Check with Lab.	Other: PUT	-File/EZ/	QulS (sp	xcel - PA	XX / SE	EnviroData	Hazsite/CSV	Electronic	3) Reporting Requirements (Please Circle)	of
lease note NUMBERED items. If not completed your analytical work may be delayed. A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis.		Cooler Temperature				which standards					'	<u>\$</u>					9) Comments							Lab.	70	4-File/EZ/NYS/Reg. 2 or 5	EQuIS (specify below):	Excel - PA Regulatory	Excel - NV Regulatory	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3/	onic Deliv.	<u>"</u> 	
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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
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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
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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

%	So	lids	SM2540	G

Analyte	DF	Units	RL	Result
% Solids	1	percent		86
J EPH Category 2				
Analyte	DF	Units	RL	Result
C9-C40	1	mg/kg	70	ND
CB 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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newjersey department of environmental protection

Site Remediation Program

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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.

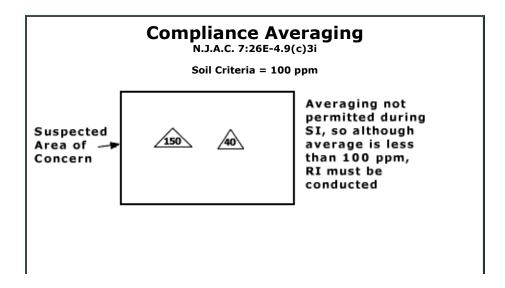
Therefore, the following approach may be used if, after completion of a remedial investigation, contaminated soils at an area of concern are not in compliance with a Soil Cleanup Criterion after averaging, but the data indicate that there is only a de minimis amount of contaminated soil. The department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

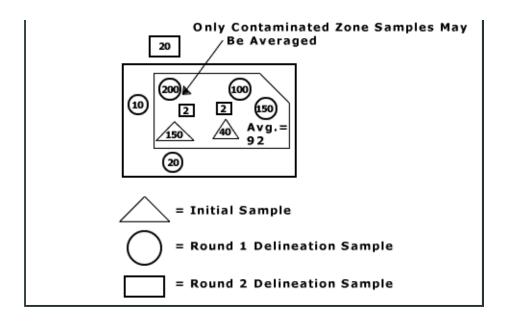
- a. Contaminant levels are "moderate"; that is, below the multiplication factor limits or ceiling levels, and below the 10,000 ppm total organic limit and the 1,000 ppm total volatile organic limit;
- Since the multiplication factor limits are applied to health-based numbers, the restrictions applicable 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

Contact DEP | Privacy Notice | Legal Statement & Disclaimers | Accessibility Statement



Site Remediation Program: <u>SRP Home | About SRP | Search | Help</u>
Department: <u>NJDEP Home | About DEP | Index by Topic | Programs/Units | DEP Online</u>

Statewide: NJ Home | Services A to Z | Departments/Agencies | FAQs

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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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Appendix C

Fact Sheet for Removal Action at FTMM-47



Fact Sheet - Removal Action Completion for FTMM-47 Fort Monmouth, Oceanport, NJ

U.S. Army Corps of Engineers

June 2018

New York District and the U.S. Army Engineering and Support Center, Huntsville

Introduction

This Fact Sheet summarizes the removal of polychlorinated biphenyl (PCB)-impacted soil at Site FTMM-47 at U.S. Army Fort Monmouth (FTMM) (Figure 1). Removal of PCB-contaminated soil under Buildings 1002, 1208, and 1209 started in December 2015 and was completed by August 2016. Removal of PCB-contaminated soil occurred during the removal of PCB-contaminated concrete and was not anticipated.

The Army initiated the Site FTMM-47 PCB-contaminated concrete removal action in accordance with the cleanup and disposal options for PCB remediation waste under

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Figure 1 – Main Post Layout and Locations of FTMM-47 Buildings 1002, 1208, and 1209

the Toxic Substances Control Act, Title 40 of the Code of Federal Regulations (CFR) §761.61 (TSCA). Once PCB-contaminated soil was encountered, the Army removed the soil pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601 et seq. (CERCLA). The removal action was undertaken to reduce potential risks of exposure to human health, welfare, and the environment via removal of the source waste materials (PCB-impacted concrete and soil).

Site Background

Between 1989 and 1990, all electrical transformers at FTMM were tested for PCB content. A total of 33 transformers, including those in Buildings 1002, 1208, and 1209, were found to be PCB transformers (defined as transformers with oil concentrations greater than 500 parts per million PCBs). Following this testing, PCB transformers at FTMM were either replaced or refurbished with non-PCB-containing oil. Subsequent testing was performed in 1995 that revealed PCBs in concrete underlying the electrical transformers in Buildings 1002, 1208 and 1209 (Figure 2).



Figure 2 - Former Electrical Transformers at Buildings 1002 (left), 1208 (center), and 1209 (right).

Removal Actions

Removal actions at Buildings 1002, 1208, and 1209 were performed by Tetra Tech, Inc. between December 2015 and August 2016. The goal was to remove any PCB-contaminated concrete (and then soil once it was discovered) with concentrations that exceeded the unrestricted use cleanup standard for PCBs established by the New Jersey Department of Environmental Protection (NJDEP). This cleanup standard, called the Residential Direct Contact Soil Remediation Standard (RDCSRS) is 0.2 milligram per kilogram (mg/kg). Although the RDCSRS was developed for soil, it has also been used for comparison to concrete concentrations in anticipation of its acceptance for unrestricted use. The TSCA also has an unrestricted use standard of 1 mg/kg.

The completion of these removal actions is documented in the *Removal Action Completion Report (RACR) for FTMM-47* (Parsons, 2018). A copy of the RACR is available for public review in the FTMM Environmental Restoration Public Information Repository (the Administrative Record) at the Monmouth County Library, Eastern Branch, 1001 Route 35, Shrewsbury NJ 07702.

Building 1002

Concrete samples were collected in 2015, which confirmed the presence of PCBs in the concrete. In December 2015, a slab of PCB-impacted concrete was removed from within the Building 1002 utility room and sub-slab soil as well as concrete samples were collected and analyzed for PCBs. Some of the samples exceeded the NJDEP RDCSRS, so a second removal action was needed. In August 2016, an additional section of the PCB-impacted concrete slab was removed and soil below the slab was then excavated. Soil samples were collected at or adjacent to previous PCB exceedances and analyzed for PCBs and extractable petroleum hydrocarbons (EPH) (Figure 3).



Figure 4 - Building 1208 Excavation and PCB Soil Sample Locations, August 2016



Figure 3 - Building 1002 Excavation and PCB Soil Sample Locations, August 2016

Building 1208

In December 2015, a slab of PCB-impacted concrete was removed from within the Building 1208 utility room, and several soil and concrete samples were collected and analyzed for PCBs. Some of the samples exceeded the NJDEP RDCSRS so a second removal action was needed. In July 2016, additional PCB-impacted concrete was removed, and soil below the former slab was then excavated. Soil samples were collected at or adjacent to previous PCB exceedances and analyzed for PCBs and EPH (Figure 4).



Figure 5 - Building 1209 Excavation and PCB Soil Sample Locations, August 2016

Building 1209

In December 2015, a slab of PCB-impacted concrete was removed from within the Building 1209 utility room, and several soil and concrete samples were collected and analyzed for PCBs. Some of the samples exceeded the NJDEP RDCSRS so a second removal action was needed. In July 2016, additional PCB-impacted concrete was removed, and soil below the former slab was excavated. Soil samples were collected at or adjacent to previous PCB exceedances and analyzed for PCBs and EPH (Figure 5).

PROJECT COMPLETION

The PCB-contaminated concrete and soil that was removed from the Buildings 1002, 1208 and 1209 sites were transported and disposed of offsite at a permitted TSCA and hazardous waste facility in Michigan. All confirmation soil and concrete sample results collected following the second removal action at each building were below the TSCA and NJDEP unrestricted use standards. Therefore, additional remediation is not needed at FTMM-47.

COMMUNITY INVOLVEMENT

The New York District invites public comment on this Fact Sheet. Written comments will be accepted during a 30-day comment period starting July 10, 2018 and ending August 8, 2018. All comments must be postmarked by August 8, 2018 and mailed to the address below (or emailed by August 8, 2018 to william.r.colvin18.civ@mail.mil):

BRAC Environmental Coordinator OACSIM - U.S. Army Fort Monmouth Attn: Mr. William Colvin P.O. Box 148, Oceanport, NJ 07757 (732) 380-7064 Removal Action Completion Report for FTMM-47 Fort Monmouth, New Jersey

Appendix D

Public Notice

PUBLIC NOTICE



U.S. Army Corps of Engineers, NY District

FACT SHEET FOR REMOVAL ACTION AT FTMM-47

Fort Monmouth, Oceanport

Monmouth County, New Jersey

The U.S. Army Corps of Engineers New York District and the U.S. Army Engineering and Support Center, Huntsville (USAESCH), has prepared a *Fact Sheet* for FTMM-47 (the Site) at Fort Monmouth (FTMM) in Oceanport, Monmouth County, New Jersey. The U.S. Army is the lead agency for FTMM in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Executive Order 12580. New Jersey Department of Environmental Protection (NJDEP) is the state support agency under the National Contingency Plan for FTMM.

The purpose of the *Fact Sheet* is to document the U.S. Army's removal of polychlorinated biphenyl (PCB) contaminated soil at the Site.

The *Fact Sheet*, the associated reports, and the full public record for the Site, are available for review in the FTMM Environmental Restoration Public Information Repository (the Administrative Record) at the Monmouth County Library, Eastern Branch, 1001 Route 35, Shrewsbury NJ 07702. The *Fact Sheet* is also posted on the FTMM Environmental Restoration Program website (http://www.pica.army.mil/ftmonmouth/).

The New York District invites public comment on the *Fact Sheet*. Written comments will be accepted during a 30-day comment period starting Tuesday July 10, 2018 and ending Wednesday August 8, 2018. All comments must be postmarked by August 8, 2018 and mailed to the address below (or emailed by August 8, 2018 to william.r.colvin18.civ@mail.mil):

BRAC Environmental Coordinator OACSIM - U.S. Army Fort Monmouth Attn: Mr. William Colvin P.O. Box 148, Oceanport, NJ 07757 (732) 380-7064