

ACTION MEMORANDUM FOR PARCEL 57
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



Prepared By:
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September 2018

ACTION MEMORANDUM
FOR PARCEL 57
FORT MONMOUTH, NEW JERSEY
APPROVAL

This Action Memorandum presents the selected removal action for contaminated soil at Parcel 57 located at Fort Monmouth in Oceanport, Monmouth County, New Jersey. The U.S. Army is the lead agency at Fort Monmouth under the Defense Environmental Restoration Program, 10 U.S.C. § 2701, and the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601 et seq., as amended (CERCLA). This Action Memorandum is consistent with CERCLA, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR Part 300. This Action Memorandum will be incorporated into the Administrative Record file for Fort Monmouth, which is available for public review at the Eastern Branch of the Monmouth County Library, 1001 Route 35, Shrewsbury, New Jersey 07702. This document, presenting the results of selected removal action with a present worth cost estimate of approximately \$50,000, is approved by the undersigned.



Thomas E. Lederle
Chief, BRAC Division
Department of the Army Assistant Chief of Staff Installation Management



Date

1.0 STATEMENT OF BASIS AND PURPOSE

This Action Memorandum describes the selected time critical removal action (TCRA) of soil contaminated with polynuclear aromatic hydrocarbons (PAHs) at Parcel 57 (referred to throughout this Action Memorandum as ‘the Site’) at Fort Monmouth, New Jersey. The purpose of this Action Memorandum is to document the U.S. Army’s decision to undertake the TCRA.

This Action Memorandum was developed in accordance with: the Defense Environmental Restoration Program (DERP), 10 United States Code (U.S.C.) Section 2701; the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601 et seq., as amended (CERCLA); and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 Code of Federal Regulations (CFR) Part 300 (USEPA 1991). The U.S. Army is the lead agency for Fort Monmouth in accordance with CERCLA and Executive Order 12,580. The U.S. Army makes remedial decisions for Fort Monmouth in consultation with the New Jersey Department of Environmental Protection (NJDEP), the state support agency.

2.0 SITE CONDITIONS AND BACKGROUND

The location of Parcel 57 is shown on **Figure 1**. A description of Parcel 57 is provided in Section 2.1. Previous investigation activities are summarized in Section 2.2; investigative results are summarized in Section 2.3.

2.1 Site Setting and History

The Main Post (MP) of FTMM was established in 1917 as Camp Little Silver. The name of the Camp was changed shortly thereafter to Camp Alfred Vail. The initial mission of the Camp was to train Signal Corps operators for service in World War I. After the war, Camp Alfred Vail was designated as the site of the Signal Corps School. In 1925, the facility became a permanent post, and its name was changed to Fort Monmouth (FTMM). The primary mission of FTMM was to provide command, administrative, and logistical support for Headquarters, U.S. Fort Monmouth Communications and Electronics Command (CECOM) (Shaw, 2012).

Parcel 57 is located in the south-central portion of the Main Post (**Figure 1**) near the former commissary. A coal storage area and fuel unloading area formerly existed along the former railroad corridor in the vicinity of Buildings 800, 801, and 1007 (US Army BRAC, 2008). FTMM real property records indicate that the T-805 coal storage concrete slab was constructed in 1945 and was replaced by new parking lots and a building in 1977.

Multiple fuel oil underground storage tanks (USTs), a bulk fuel oil aboveground storage tank (AST), and several structures related to fuel storage or transfer were once present at or near Parcel 57 (**Figure 2**). The 250,000-gallon bulk fuel oil AST was located at adjacent Installation Restoration Program (IRP) site FTMM-66 to the east of Parcel 57. Former gasoline USTs were located at adjacent IRP site FTMM-64 to the southeast as was a pipeline to a fuel loading/unloading pump house area along the southern spur of the former railroad tracks. Approximately 4,000 cubic yards of petroleum-contaminated soil was removed during construction of the Commissary (Building 1007) in January 1997. Former fuel storage areas,

petroleum-contaminated soil and IRP sites have been addressed separately from Parcel 57 and therefore are not the subject of this Action Memorandum.

Approximately 40% of the Site is currently covered by Buildings 800, 801, 1005, 1007, and 1010, and by portions of Building 1000 and 1002 (**Figure 2**). Asphalt pavement for parking areas and roads covers approximately half of the parcel and a relatively small portion of the parcel (about 10 percent) consists of landscaped areas. The site is currently unoccupied. Future land use includes low-to-medium-density residential housing and some supporting retail, office, and civic/institutional uses (education-medical campus).

2.2 Summary of Investigation Activities

PAHs have been detected in soil across much of Parcel 57 at concentrations exceeding the NJDEP Residential Direct Contact Soil Remediation Standards (RDCSRS). The observations of coal fragments and occurrence of PAHs in subsurface soils suggests that the former coal storage area, which was located near the northern edge of Parcel 57, was a likely source of the release of PAHs. However, the widespread occurrence of PAHs in soil indicates that some occurrences located more distant (that is, to the south) of the former coal storage area may have been caused by redistribution of coal storage area soils during redevelopment, or may not be related to historical coal storage at all. Instead, these PAHs may be due to other sources such as fill material or other ubiquitous anthropogenic sources such as deposition of PAHs resulting from fossil fuel combustion.

In December 2007, soil and groundwater samples were collected as part of a Site Investigation (SI) at Parcel 57 for the 2008 SI (U.S. Army BRAC, 2008) to determine if there was a release of contamination due to the former coal storage area. Multiple PAHs including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and benzo(k)fluoranthene were detected at concentrations exceeding the RDCSRS in soil samples collected below the asphalt pavement. Soil sampling results for volatile organic compounds (VOCs) and metals were compared to NJDEP Non-Residential Direct Contact Soil Remediation Standards (NRDCSRS) in the 2008 SI. There were no exceedances of the RDCSRS and no additional soil sampling for VOCs or metals was recommended. NJDEP (2008, 2012) commented that delineation of PAHs and additional information regarding sources was required, as well as PCB analysis for soils along the former railroad tracks. Only the SI soil sample locations with PAH exceedances were re-sampled as part of the Phase II SI (Parsons, 2018).

In February 2010, soil at seven locations was sampled by the Army and analyzed for PAHs and, in some cases, these sample results exceeded the RDCSRS and Impact to Groundwater Soil Screening Levels (IGWSSL). In addition to the 15 soil borings analyzed for PAHs in 2007 and six soil borings analyzed for PAHs in 2010, a total of 71 samples (including three field duplicates) from 27 soil borings were analyzed for PAHs in the 2015/2016 Phase II SI. A Remedial Investigation (RI) Report will be prepared that will summarize the investigation results to date and the results of this proposed TCRA.

PCBs were also detected in subsurface soils near the former railroad tracks during the 2010 investigation. The highest exhibited PCB concentration was 8.8 mg/kg at 3-3.5 feet below ground surface (bgs) (sample location PAR-57-SS-04) which is above the RDCSRS of 0.2 mg/kg and NRDCSRS of 1 mg/kg. Step-out sampling was performed to delineate the extent of PCB contamination. Based on these data, an interim removal action was performed via excavation in July 2016 (Tetra Tech, 2016). A 5-foot-by-5-foot area of soil centered around PAR-57-SS-04 was excavated to a depth of 5 feet bgs and disposed of offsite. A

confirmation sample was collected from the bottom of the excavation and analyzed for PCBs and EPH. PCBs were not detected in the confirmation sample and thus were below the NRDCSRS and RDCSRS. EPH was detected at 120 mg/kg, which is below the 1700 mg/kg New Jersey Department of Environmental Protection Category 2 EPH Protocol. The 2016 interim removal action addressed only the PCB-contaminated soil at Parcel 57, and not the PAHs addressed in this TCRA as they are located in a different area of the site.

2.3 Investigation Results

Target PAH analytes included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Additional care was taken by the field sampling crew to prevent the incorporation of the existing asphalt pavement or underlying base material into the soil samples for laboratory analyses.

Soil sampling results for PAHs obtained in 2007, 2010, 2015, and 2016 were compared to current September 2017 NJDEP criteria in **Table 1** and to USEPA criteria in **Table 2**, and results of the comparison to the 2017 NJDEP criteria are shown on **Figure 3** and to USEPA RSLs on **Figure 4**. In summary, PAHs were detected at 44 of the 55 soil boring locations (**Tables 1 and 2**). Benzo(a)pyrene was the most prevalent PAH in Parcel 57 soil samples and exceeded the 2017 NJDEP and USEPA comparison criteria in most samples.

NJDEP revised the RDCSRS for multiple PAHs on 18 September 2017 based on lower toxicity values; regardless, multiple soil PAH results continued to exceed the revised RDCSRSs.

3.0 THREATS TO PUBLIC HEALTH, WELFARE, AND THE ENVIRONMENT

Concentrations of PAHs in soil were compared to USEPA RSLs to evaluate the potential effects of contaminants in soil on human health and the environment. The results of these comparisons were used to evaluate the need for soil removal and to establish a baseline to evaluate the effectiveness of the proposed removal action.

3.1 Risk Assessment Evaluation

A screening evaluation was performed to evaluate the need for soil removal at the Site to reduce the threat to human health. **Table 3** presents the maximum detected concentrations of PAHs. These maximum concentrations exceed the USEPA Residential RSLs for several analytes, indicating a potential threat to human health.

The Baseline Ecological Evaluation (BEE; Shaw, 2012) concluded that constituents at the Main Post of FTMM (including the Site) were unlikely to have a deleterious effect on sensitive ecological receptors or habitats, and additional ecological assessments were not warranted or recommended. Potentially complete terrestrial and aquatic pathways for ecological receptors are incomplete at the Site due to lack of viable habitat.

4.0 REGULATORY FRAMEWORK AND ENDANGERMENT DETERMINATION

This section summarizes the regulatory framework for the TCRA at the Site and presents the objectives of the removal action.

Table 3. Maximum COC Concentrations in Soil

Contaminant	Maximum Concentration (mg/kg)	USEPA RSL ¹ (mg/kg)
benzo(a)anthracene	10	1.1
benzo(a)pyrene	9.9	0.11
benzo(b)fluoranthene	11	1.1
benzo(k)fluoranthene	7	11
chrysene	10	110
dibenz(a,h)anthracene	2.3	0.11
dibenzofuran	1.8	7.3
indeno(1,2,3-cd)pyrene	6	1.1
naphthalene	0.99	3.8
1. USEPA RSLs for Residential Soil, based on target risk of 1E-06 and target hazard quotient of 0.1. Effective June 2017 (USEPA, 2017).		

4.1 Regulatory Framework

CERCLA provides the President authority to respond to releases of hazardous substances, including removal actions (42 U.S.C. Section 9604(a)). Executive Order 12580 Section 2(d) delegates the President's authority under various CERCLA sections, including Section 9604(a), to the Secretary of the U.S. Department of Defense (DoD). Section 300.415 of the NCP further specifies the structure and requirements for removal actions. As the lead agency, the U.S. Army has decided to implement the removal action in this TCRA for the Site in accordance with CERCLA and the NCP. NJDEP concurred with the U.S. Army's selected removal action described in this Action Memorandum (Email dated 25 May 2018).

4.1.1 Justification of the Time Critical Removal Action

A removal action is warranted pursuant to the NCP when the lead agency makes the determination that there is a threat to public health or welfare or the environment (40 CFR 300.415(b)(1)). Of the listed factors in the NCP, the following two factors in Section 300.415(b)(2) of the NCP (40 CFR 300.415) were directly applicable to the site and were used in determining the appropriateness of a TCRA for the contaminant concentrations in soil at the Site:

Other situations or factors that may pose threats to public health or welfare of the United States or the environment. (40 CFR 300.415(b)(2)(viii)).

While PAHs are present in soil at the Site at concentrations that could pose a threat to human health, the time-critical removal action is being performed to accelerate the property transfer for beneficial reuse and remove the environmental liability at this parcel (**Table 3**). The NCP also states:

If the lead agency determines that a removal action is appropriate, actions shall, as appropriate, begin as soon as possible to abate, prevent, minimize, stabilize, mitigate, or eliminate the threat to public health or welfare of the United States or the environment. (40 CFR 300.415(b)(3)).

The U.S. Army has determined that a TCRA is appropriate for the Site to remove the source of PAH contamination in soil and the long-term environmental liability at the Site.

4.1.2 Applicable or Relevant and Appropriate Requirements

The TCRA described in this Action Memorandum complies with applicable or relevant and appropriate requirements (ARARs). In accordance with the NCP (40 CFR § 300.415(i)), onsite removal actions conducted under CERCLA are required to meet ARARs “to the extent practicable.” The U.S. Army consulted with NJDEP and identified NJDEP’s Residential Direct Contact Soil Remediation Standards (RDCSRS) as applicable to this removal action. The applicable RDCSRS for each COPC is:

Contaminant	NJ RDCSRS (mg/kg)
Benzo(a)anthracene	5
Benzo(a)pyrene	0.5
Benzo(b)fluoranthene	5
Benzo(k)fluoranthene	45
Chrysene	450
Dibenz(a,h)anthracene	0.5
Indeno(1,2,3-cd)pyrene	5
Naphthalene	6

Note: The NJ RDCSRS refers to the NJDEP’s Sept 18, 2017 Remediation Standards

The TCRA described in this Action Memorandum also complies with applicable requirements for offsite actions (i.e., Resource Conservation and Recovery Act [RCRA] hazardous waste transportation and offsite treatment requirements prior to land disposal as required by the RCRA land disposal restrictions).

4.2 Endangerment Determination

Actual or threatened releases of hazardous substances from the Site, if not addressed by implementing the response action selected in this Action Memorandum, may result in unacceptable exposures to contaminants and present a threat to human health.

4.3 Removal Action Objectives

The removal action objective (RAO) for the Site is to remove PAH concentrations in soil that pose a threat to human health on an expedited basis to remove the environmental liability at this parcel and accelerate the property transfer for beneficial reuse.

5.0 DESCRIPTION OF PROPOSED ACTION

Two alternatives for the Site were evaluated using the effectiveness, implementability, and cost selection criteria established by the NCP. The relative performances of the alternatives are evaluated in the following comparative analysis.

The alternatives considered for the Site were:

- Alternative 1 – No Action
- Alternative 2 – Soil Removal and Offsite Disposal.

Both alternatives were evaluated against CERCLA remedial criteria of effectiveness, implementability, and cost. Only Alternative 2 satisfied the threshold criteria of protecting human health and the environment and complied with ARARs and was effective and implementable; therefore, Alternative 2 was assessed for cost. Based on the comparative analysis in terms of effectiveness, implementability, and cost, the U.S. Army’s

selected alternative was **Alternative 2 – Soil Removal and Offsite Disposal**. Protectiveness is achieved by the removal of contamination in soil and is more cost effective in the long term compared to institutional controls.

The selected removal action for the TCRA consists of removing PAH-contaminated soil at the locations shown on **Figures 3 and 4**. Removal action activities will include site preparation, excavation of contaminated soil, offsite transportation and disposal, and site restoration.

Site preparation will include staking the excavation locations and identifying locations of utilities. Contaminated soil will be removed and placed in roll-off boxes for offsite disposal. Clean backfill will be compacted in lifts and graded to maintain positive drainage. The areas impacted during the removal action will be restored (typically grass seed and straw when previously vegetated, and crushed stone with asphalt patch where previously paved). Characterization, transportation, and offsite disposal of solid or hazardous waste will comply with all appropriate Federal and state laws.

The general criteria for evaluating removal actions include effectiveness, implementability, and cost. The ability of the proposed action to meet these criteria is described below.

5.1 Effectiveness

The proposed action for the Site would be effective at providing short- and long-term protection. This action is permanent because the source of the soil contamination will be removed. This alternative complies with ARARs provided in Section 4.1.2. The chemical concentrations at the Site do not present a significant risk to site workers during the removal action. Physical risks will be addressed by implementing approved health and safety practices during the course of the removal action.

5.2 Implementability

The removal action has been demonstrated to be both technically and administratively implementable. The soil excavation employs construction practices that are routinely implemented. All services and materials required are readily available. This alternative will likely be acceptable to the community because the soil removal and replacement will achieve the RAO.

5.3 Contribution to Remedial Performance

The selected removal action will address all residual site contamination to meet the RDCSRS identified in Section 4.1.2. Following the completion of the removal action, the Site will move on to the RI Phase with the expectation that Site risks will have been addressed and no post-removal CERCLA action will be necessary. Since hazardous substances will not remain at the Site above an unrestricted use/unlimited exposure scenario, statutory 5-Year Reviews will not be necessary.

5.4 Project Schedule

The proposed removal action will be performed/completed in the next three to five months during the summer or early fall months. This is the best time to perform this action as weather impacts will not affect excavation activities.

5.5 Cost

The estimated cost of the TCRA is approximately \$50,000. A breakdown of the costs is provided in **Table 4**. The costs include development of project-specific work plans, site preparation, soil excavation, transportation and disposal, and site restoration.

Table 4. Estimated Costs for Alternative 2: Soil Removal and Offsite Disposal

Phase Name	Year 1
Work Plan	\$5,000
Soil Removal	\$15,000
Transportation and Disposal	\$10,000
Restoration	\$5,000
U.S. Army Corps Costs	\$15,000
Present Worth Total Cost:	\$50,000

6.0 EXPECTED CHANGE IN THE SITUATION SHOULD THE ACTION BE DELAYED OR NOT TAKEN

Delaying the implementation of the proposed removal action or taking no action could result in potential threats to public health and the environment as well as delays in the redevelopment of the property and transfer of the Site from the U.S. Army to the FMERA.

7.0 PUBLIC INVOLVEMENT AND PARTICIPATION

This Action Memorandum will be made available for a 30-day public review and comment period from September 12 to October 11, 2018 and will be posted on the FTMM Environmental Restoration Program website (<http://www.pica.army.mil/ftmonmouth/>) and placed in the FTMM Environmental Restoration Public Information Repository (the Administrative Record) at the following location:

Monmouth County Library, Eastern Branch

1001 Route 35, Shrewsbury, NJ

Phone: (732) 683-8980

Hours: Mon-Thurs, 9am-9pm; Fri-Sat, 9am-5pm; and Sun, 1pm-5pm

Appendix A includes the public press release regarding the TCRA and the public notice requesting comments.

8.0 CONCLUSIONS

The soil removal and backfill alternative selected as the removal action for the PAH-contaminated soil at the Site best meets the RAO and NCP criteria because it:

- Is technically feasible based on commonly used construction techniques and demonstrated proven approaches;
- Is administratively feasible and eliminates the requirement to conduct CERCLA 5-Year Reviews;

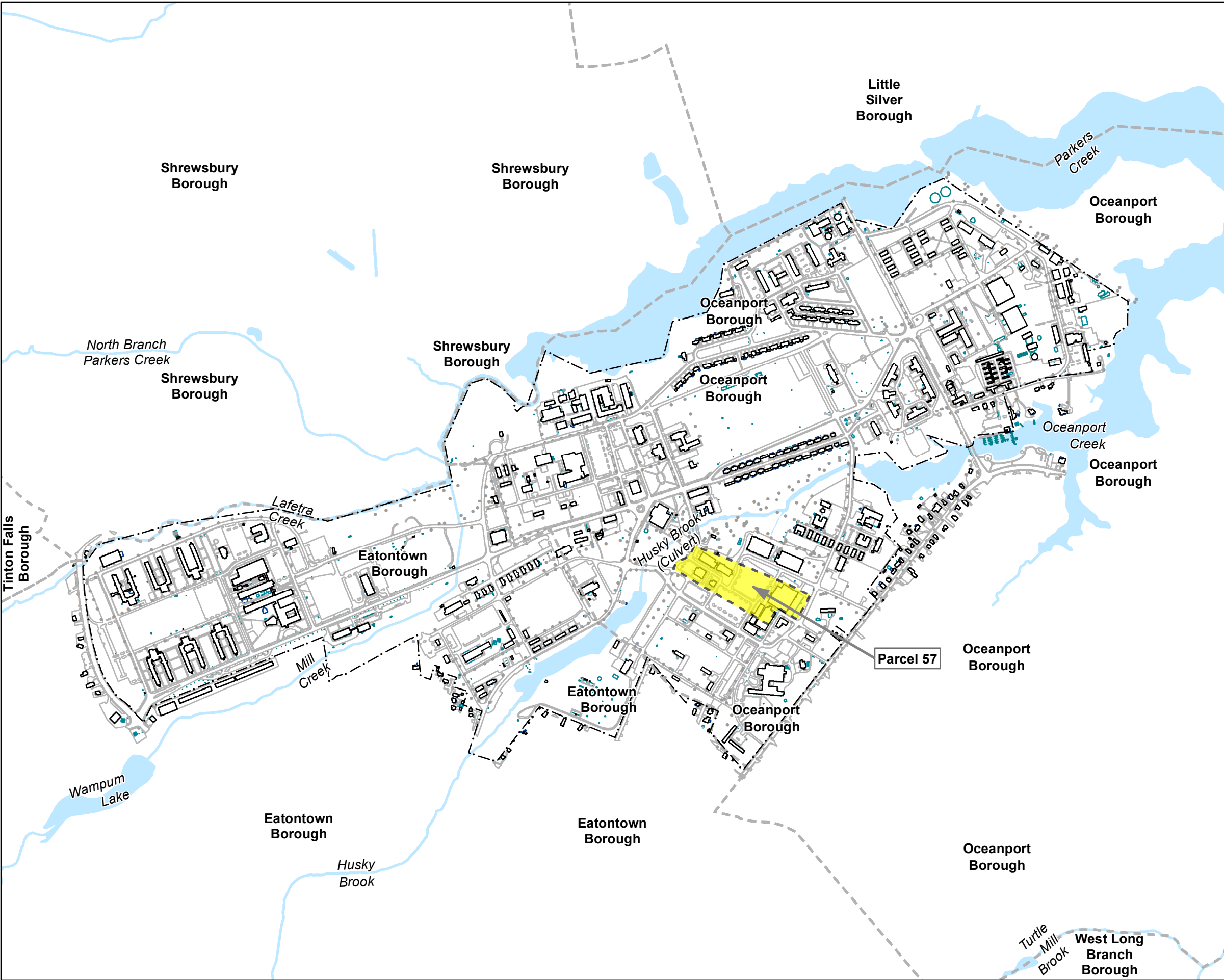
- Provides a high degree of long-term public health and environmental protection through the removal of the source of the contaminated soil;
- Complies with chemical- and action-specific ARARs;
- Imposes no restrictions on future use of the site;
- Meets the evaluation criteria of effectiveness, implementability, and cost; and
- Facilitates transfer of the property to the FMERA.

9.0 REFERENCES

- New Jersey Department of Environmental Protection (NJDEP), 2012. Letter to Army; Re: *March 2012 Army Response to NJDEP Correspondence Letter Dated October 28, 2008, Fort Monmouth, NJ.* July 10.
- NJDEP, 2015. Letter to Army; Re: *Revision 1 – Final Environmental Condition of Property Supplemental Phase II Site Investigation Work Plan Addendum for Parcels 28, 38, 39, 49, 57, 61, and 69 dated November 2015.* December 30.
- Parsons, 2018. *Remedial Investigation Letter Report, Parcel 57- Former Coal Storage and Railroad Unloading Area, For Monmouth, NJ.* Draft – In Progress, April.
- Parsons, 2015. *Final Environmental Condition of Property Supplemental Phase II Site Investigation Work Plan for Parcels 28, 38, 39, 49, 57, 61, and 69.* Submitted to U.S. Army Engineering and Support Center, Huntsville, AL. Revision No. 1. August.
- Shaw, 2012. *Final Fort Monmouth Main Post and Charles Wood Area Baseline Ecological Evaluation Report, U.S. Army Garrison Fort Monmouth, Fort Monmouth, New Jersey.* Prepared for the Army Corps of Engineers, Baltimore District. Rev. 1.
- 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. USEPA, 2015. Regional Screening Levels Summary Table (based on target risk of 1E-06 and target hazard quotient of 0.1). November.
- US Environmental Protection Agency (USEPA), 2015. Regional Screening Levels Summary Table (based on target risk of 1E-06 and target hazard quotient of 0.1). November.
- USEPA, 2017. Regional Screening Levels Summary Table (based on target risk of 1E-06 and target hazard quotient of 0.1). June. Available at: <https://semspub.epa.gov/work/03/2245071.pdf>.

Figure 1
Parcel 57 Site Location

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LEGEND:

-  Parcel Boundary
-  Municipal Boundary
-  Installation Boundary
-  Surface Water Feature

N

1 inch = 1,000 feet

0 500 1,000 2,000 Feet

Source: FTMM Supplied CAD, 2013; U.S. Army BRAC, 2008; ESRI Data and Maps 2011; USGS NHD, 2012.

PARSONS
401 Diamond Drive NW,
Huntsville AL

Fort Monmouth
New Jersey

PARCEL 57 LOCATION

CREATED BY:
RR

REVIEWED BY:
RF

DATE:
MAY. 2017

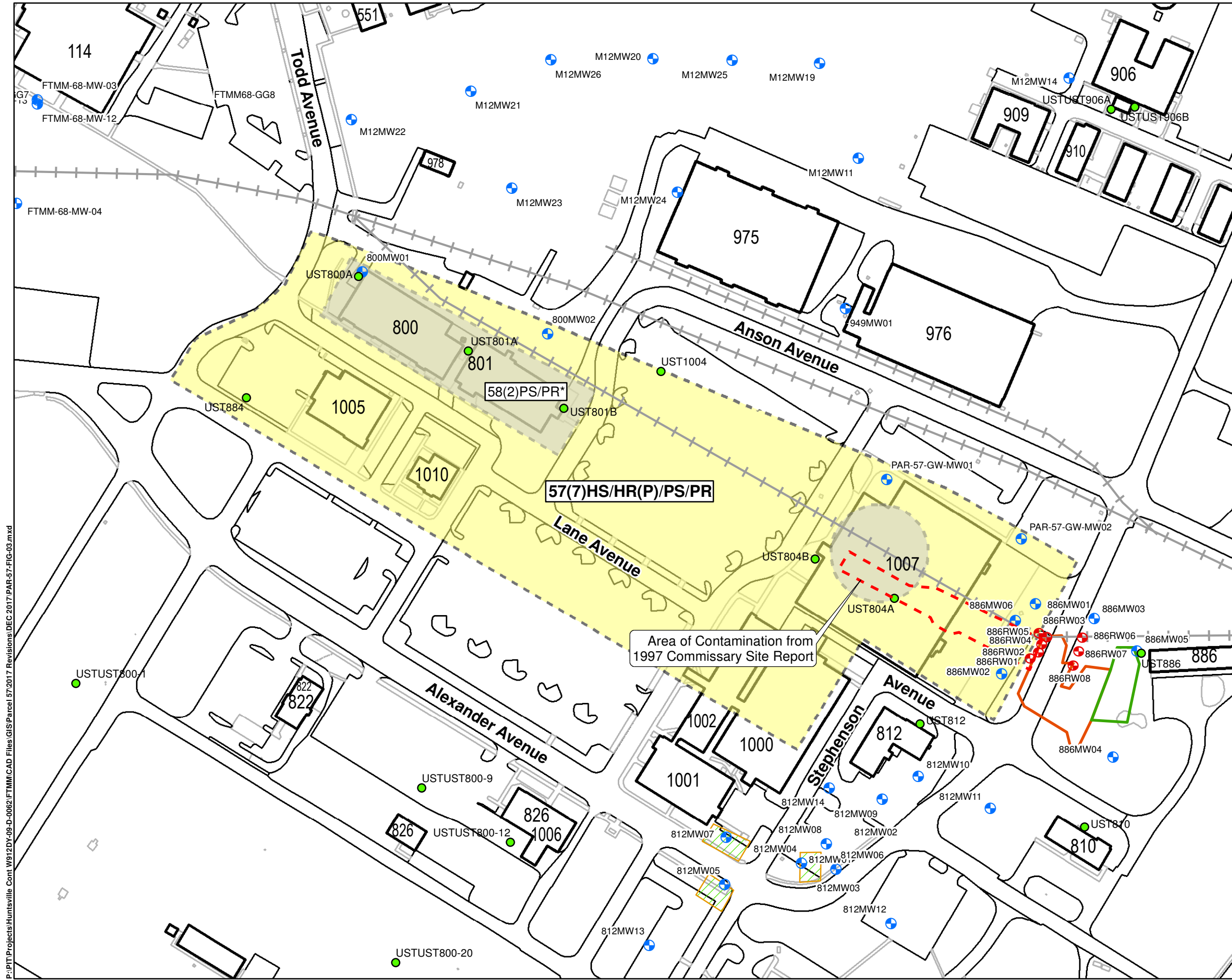
FIGURE NUMBER:
FIGURE 1

PROJECT NUMBER:
748810-01000

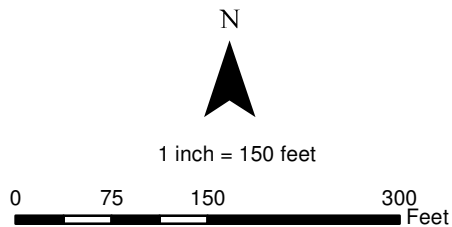
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Figure1_MP_Layout.mxd

Figure 2

Previous Remediation Areas



- LEGEND:**
- Shallow Monitoring Well
 - Recovery Well
 - Former UST Location
 - Approximate Location of Former Railroad Track (based on 1962 FTMM plan figure)
 - Parcel 57 Boundary
 - FTMM-66 Phase 1 Excavation
 - FTMM-66 Phase 2 Excavation
 - FTMM-64 HRC Injection Area



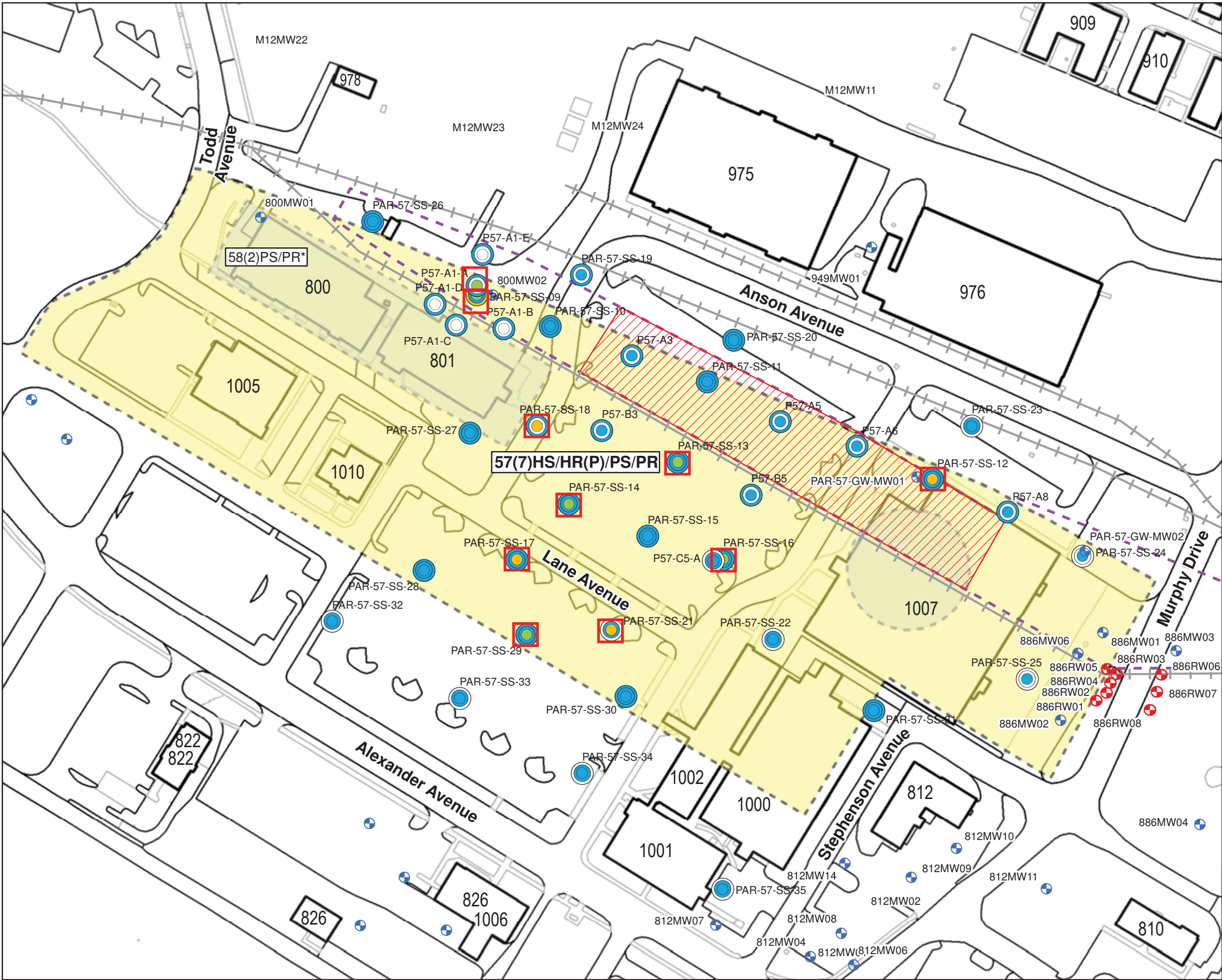
Source: FTMM Supplied CAD, 2013; U.S. Army BRAC, 2008.

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
PREVIOUS REMEDATION AREAS	
CREATED BY: RR	REVIEWED BY: SS
DATE: JAN. 2018	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-06018	FILE: PAR-57-FIG-03.mxd

Figure 3

Comparison of Soil Results for PAHs to NJDEP Direct Contact Standards

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LEGEND:

- Shallow Monitoring Well
- Recovery Well
- Parcel 57 Boundary
- Approximate Location of Former Railroad Track (based on 1962 FTMM plan figure)
- Approximate Extent of Former Coal Storage
- Former Concrete Coal Storage Pad
- Not analyzed for PAHs
- PAHs not detected or detected below RDCSRS
- PAHs exceeded RDCSRS
- PAHs exceeded both RDCSRS and NRDCSRS
- Water Table (approx. 5-7.5 ft. bgs)
- Intermediate (approx. 2-3.5 ft. bgs)
- Shallow (approx. 0-1 ft. bgs)
- PAH Hotspot Excavation Location

NOTES:

- RDCSRS = Residential Direct Contact Soil Remediation Standard
- NRDCSRS = Non-Residential Direct Contact Soil Remediation Standard
- 2007 Sample Results are not shown if a 2010, 2015, or 2016 sample was collected in the same location.

BRAC Parcel Label Definitions

Contaminant Description	Category Number	Parcel Number
HS – Hazardous Substance Storage		
HR – Hazardous Substance Release		
PS – Petroleum Storage		
PR – Petroleum Release		
(P) – Possible Release or Disposal		

N

1 inch = 120 feet

0 60 120 240 Feet

Source: FTMM Supplied CAD, 2013; U.S. Army BRAC, 2008.

PARSONS
401 Diamond Drive NW,
Huntsville AL

Fort Monmouth
New Jersey

**COMPARISON OF SOIL RESULTS FOR PAHS
TO NJDEP DIRECT CONTACT STANDARDS**

CREATED BY:

RR

REVIEWED BY:

JB

DATE:

MAR. 2018

FIGURE NUMBER:

FIGURE 3

PROJECT NUMBER:

748810-02110

FILE:

PAR-57-FIG-07.mxd

Figure 4

Comparison of Soil Results for PAHs USEPA Regional Screening Levels

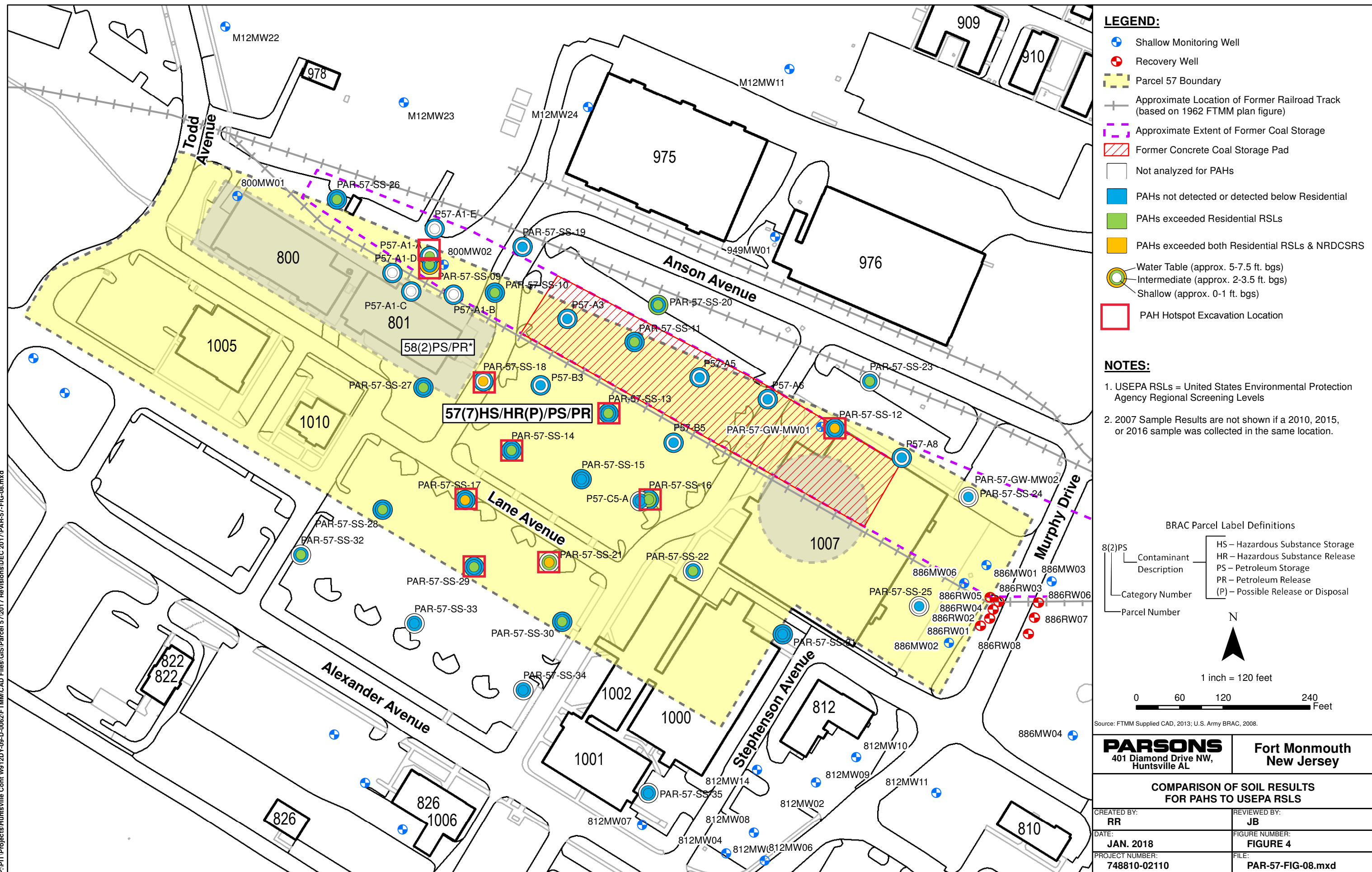


Table 1

Detected Soil Analytes and Comparison to NJDEP Soil Criteria

TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	P57-A1		P57- C5		PAR-57-SS-01	PAR-57-SS-02	PAR-57-SS-03	PAR-57-SS-04		
Sample ID	Contact SRS	Contact SRS	Screening Level	Background (Main Post)	P57-SS-A1-1.0-1.5	P57-SS-A1-1.5-2.0	P57-SS-C5-1.0-1.5	P57-SS-C5-1.5-2.0	FTMM-57-SS01-0.5-1.0	FTMM-57-SS02-1.3-1.8	FTMM-57-SS03-0.5-1.0	FTMM-57-SS04-1.0-1.5	FTMM-57-SS04-2.0-2.5	FTMM-57-SS04-3.0-3.5
Sample Date					1-1.5	1.5-2	1-1.5	1.5-2	0.5-1	1.3-1.8	0.5-1	1-1.5	2-2.5	3-3.5
					2/1/2010	2/1/2010	2/1/2010	2/1/2010	9/18/2015	9/18/2015	9/18/2015	9/18/2015	9/18/2015	9/18/2015
Volatile Organic Compounds (mg/kg)														
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	12,000	170,000	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)														
2-Methylnaphthalene	230	2,400	8	-	1.45	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	< 0.55	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	< 0.55	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	< 0.55	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	0.72	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.5	2	0.2	-	0.77	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5	17	2	-	1.54	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000	30,000	NLE	-	0.43 J	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	0.55 J	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	0.95	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	< 0.55	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	1.16	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	< 0.55	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	0.39 J	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Naphthalene	6	17	25	-	0.99	< 0.54	< 0.57	< 0.54	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	0.9	< 0.54	< 0.57	0.49 J	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	1.37	< 0.54	< 0.57	0.83	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)														
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	83.6 J	59.77 J	41.69 J	116.7 J	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)														
Aroclor-1254	0.2	1	0.2	-	NA	NA	NA	NA	< 0.022 UJ	< 0.025 UJ	< 0.022 UJ	0.35 J	0.25 J	0.8
Aroclor-1260	0.2	1	0.2	-	NA	NA	NA	NA	< 0.02 UJ	< 0.022 UJ	< 0.02 UJ	0.25 J	< 0.039	< 2.2
Inorganics (mg/kg)														
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids														
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	89.7	77.3	87.8	78.1	87.3	77.5
Wet Chemistry - Solids														
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

E (or ER) = Estimated result.

R = Rejected, data validation rejected the results.

D = Results from dilution of sample.

U = non-detect, i.e. not detected at or above this value.

J-DL = Elevated sample detection limit due to difficult sample matrix.

U-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

####

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

###

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

###

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

###

4) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Impact to GW Soil Screening Level criteria refers to the Development of Site Specific Impact to Ground Water Soil Remediation Standards - Nov 2013 revised

http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

5) Alternative Soil Remediation Standard, Section 4.3.1 and Attachment F

TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	PAR-57-SS-05	PAR-57-SS-06	PAR-57-SS-07	PAR-57-SS-08	PAR-57-SS-09			PAR-57-SS-10		
Sample ID					FTMM-57-SS05-0.5-1.0	FTMM-57-SS06-0.5-1.0	FTMM-57-SS07-0.5-1.0	FTMM-57-SS08-0.9-1.4	FTMM-57-SS09-0.5-1.0	FTMM-57-SS09-2.0-2.5	FTMM-57-SS09-5.5-6.0	FTMM-57-SS10-0.0-0.5	FTMM-57-SS10-3.0-3.5	FTMM-57-SS10-7.0-7.5
Sample Date					0.5-1 9/18/2015	0.5-1 9/18/2015	0.5-1 9/18/2015	0.9-1.4 9/21/2015	0.5-1 10/1/2015	2-2.5 10/1/2015	5.5-6 10/1/2015	0-0.5 10/1/2015	3-3.5 10/1/2015	7-7.5 10/1/2015
Volatile Organic Compounds (mg/kg)														
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	12,000	170,000	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)														
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	NA	NA	NA	NA	0.77 J	0.0023 J	10	0.27	0.0053 J	< 0.0044
Benzo(a)pyrene	0.5	2	0.2	-	NA	NA	NA	NA	0.88	0.0031 J	8	0.27	0.0049 J	< 0.0044
Benzo(b)fluoranthene	5	17	2	-	NA	NA	NA	NA	1.2 J	0.0039 J	11	0.39	0.0058 J	< 0.0044
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	NA	NA	NA	NA	0.35 J	< 0.0038	3.3	0.12	0.0031 J	< 0.0044
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	NA	NA	NA	NA	0.29 J	< 0.0038	1.8	0.075	< 0.0044	< 0.0044
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	NA	NA	NA	NA	0.57 J	< 0.0038	4.5	0.2	0.0031 J	< 0.0044
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)														
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)														
Aroclor-1254	0.2	1	0.2	-	< 0.13 UJ	< 0.13 UJ	< 0.13 UJ	< 0.023 UJ	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	0.2	-	< 0.11 UJ	< 0.12 UJ	< 0.11 UJ	< 0.021 UJ	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)														
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids														
Percent Solids (percent)	NLE	NLE	NLE	-	78.9	77.5	77.7	82.3	91.4	86	91.4	89.3	75.1	75.1
Wet Chemistry - Solids														
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

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[blank] = detect, i.e. detected chemical result value.

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E (or ER) = Estimated result.

R = Rejected, data validation rejected the results.

D = Results from dilution of sample.

U = non-detect, i.e. not detected at or above this value.

J-DL = Elevated sample detection limit due to difficult sample matrix.

U-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

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- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

####

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

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###

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

###

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###

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

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###

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

###

4) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

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http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

5) Alternative Soil Remediation Standard, Section 4.3.1 and Attachment F

TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	PAR-57-SS-11				PAR-57-SS-12				PAR-57-SS-13		
Sample ID					FTMM-57-SS11-0.0-0.5	FTMM-57-SS111-3.0-3.5	FTMM-57-SS11-3.0-3.5	FTMM-57-SS11-7.0-7.5	FTMM-57-SS112-0.0-0.5	FTMM-57-SS12-0.0-0.5	FTMM-57-SS12-3.0-3.5	FTMM-57-SS12-7.0-7.5	FTMM-57-SS13-0.0-0.5	FTMM-57-SS13-3.0-3.5	FTMM-57-SS13-6.5-7.0
Sample Date					0-0.5 10/1/2015	3-3.5 10/1/2015	3-3.5 10/1/2015	7-7.5 10/1/2015	0-0.5 10/1/2015	0-0.5 10/1/2015	3-3.5 10/1/2015	7-7.5 10/1/2015	0-0.5 10/1/2015	3-3.5 10/1/2015	6.5-7 10/1/2015
Volatile Organic Compounds (mg/kg)															
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	12,000	170,000	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)															
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	0.25 J	0.015	0.01	0.0035 J	0.24 J	4.7 J	0.043	0.026	0.98	< 0.0039	< 0.0041
Benzo(a)pyrene	0.5	2	0.2	-	0.21 J	0.015	0.012	0.0039 J	0.26 J	3.7 J	0.039	0.02	0.89	< 0.0039	< 0.0041
Benzo(b)fluoranthene	5	17	2	-	0.27 J	0.019	0.016	0.0048 J	0.37 J	4.5 J	0.054	0.026	1.2	< 0.0039	< 0.0041
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	0.11 J	0.0042 J	0.005 J	< 0.0043	0.11 J	2 J	0.024	0.011	0.31	< 0.0039	< 0.0041
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	0.056 J	< 0.0038	< 0.0038	< 0.0043	0.046 J	0.85 J	0.01	< 0.0039	0.17	< 0.0039	< 0.0041
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	0.14 J	0.011	0.005 J	0.0026 J	0.16 J	2.3 J	0.023	0.0093	0.52	< 0.0039	< 0.0041
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)															
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)															
Aroclor-1254	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)															
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids															
Percent Solids (percent)	NLE	NLE	NLE	-	92.1	87.8	86.2	76.2	94.5	88.9	93.5	85.6	88.3	85.6	80.7
Wet Chemistry - Solids															
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

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- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

####

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

###

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

###

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

###

4) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Impact to GW Soil Screening Level criteria refers to the Development of Site Specific Impact to Ground Water Soil Remediation Standards - Nov 2013 revised

http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

5) Alternative Soil Remediation Standard, Section 4.3.1 and Attachment F

TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	PAR-57-SS-14			PAR-57-SS-15			PAR-57-SS-16		
Sample ID					FTMM-57-SS14-0.0-0.5	FTMM-57-SS14-3.0-3.5	FTMM-57-SS14-5.0-5.5	FTMM-57-SS15-0.0-0.5	FTMM-57-SS15-3.0-3.5	FTMM-57-SS15-5.5-6.0	FTMM-57-SS16-0.0-0.5	FTMM-57-SS16-1.5-2.0	FTMM-57-SS16-6.0-6.5
Sample Date					0-0.5 10/1/2015	3-3.5 10/1/2015	5-5.5 10/1/2015	0-0.5 10/1/2015	3-3.5 10/1/2015	5.5-6 10/1/2015	0-0.5 10/1/2015	1.5-2 10/1/2015	6-6.5 10/1/2015
Volatile Organic Compounds (mg/kg)													
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	12,000	170,000	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)													
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	1.2	0.035	< 0.0037	0.066	< 0.0039	0.034	0.81	0.2	< 0.0039
Benzo(a)pyrene	0.5	2	0.2	-	0.97	0.035	< 0.0037	0.077	< 0.0039	0.031	0.66	0.22	< 0.0039
Benzo(b)fluoranthene	5	17	2	-	1.4	0.041	< 0.0037	0.092	< 0.0039	0.038	1.1	0.39	< 0.0039
Benzo(g)h)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	0.48	0.014	< 0.0037	0.019	< 0.0039	0.016	0.28	< 0.035	< 0.0039
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	0.19	0.012	< 0.0037	0.021	< 0.0039	< 0.0036	< 0.038	< 0.035	< 0.0039
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	0.51	0.023	< 0.0037	0.047	< 0.0039	0.023	0.44	< 0.035	< 0.0039
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)													
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)													
Aroclor-1254	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)													
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids													
Percent Solids (percent)	NLE	NLE	NLE	-	88	91.3	90.6	90.2	84.9	92.4	87.4	93.3	84.5
Wet Chemistry - Solids													
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

E (or ER) = Estimated result.

R = Rejected, data validation rejected the results.

D = Results from dilution of sample.

U = non-detect, i.e. not detected at or above this value.

J-DL = Elevated sample detection limit due to difficult sample matrix.

U-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

####

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

###

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

###

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

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###

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

###

4) Criterina action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

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http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

5) Alternative Soil Remediation Standard, Section 4.3.1 and Attachment F

TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	PAR-57-SS-17			PAR-57-SS-18		PAR-57-SS-19		PAR-57-SS-20		PAR-57-SS-20	
Sample ID					FTMM-57-SS17-0.0-0.5	FTMM-57-SS17-3.0-3.5	FTMM-57-SS17-5.5-6.0	FTMM-57-SS18-0.0-0.5	FTMM-57-SS18-5.0-5.5	FTMM-57-SS19-0.0-0.5	FTMM-57-SS19-5.5-6.0	FTMM-57-SS20-0.0-0.5	FTMM-57-SS20-3.0-3.5	FTMM-57-SS20-5.0-5.5	
Sample Date					0-0.5 10/1/2015	3-3.5 10/1/2015	5.5-6 10/1/2015	0-0.5 10/1/2015	5-5.5 10/1/2015	0-0.5 10/1/2015	5.5-6 10/1/2015	0-0.5 10/1/2015	3-3.5 10/1/2015	5-5.5 10/1/2015	
Volatile Organic Compounds (mg/kg)															
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	12,000	170,000	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)															
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	4.3	< 0.004	0.0027 J	3.7	0.037	< 0.18	< 0.0045	0.27	0.023	0.51	
Benzo(a)pyrene	0.5	2	0.2	-	4.8	< 0.004	0.0023 J	2.3	0.035	< 0.18	< 0.0045	0.3	0.013	0.27	
Benzo(b)fluoranthene	5	17	2	-	6.1	< 0.004	< 0.0038	3.8	0.049	< 0.18	< 0.0045	0.44	0.02	0.4	
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	2.2	< 0.004	0.0046 J	1.1	0.013	< 0.18	< 0.0045	0.12	0.013	0.17	
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	1.2	< 0.004	< 0.0038	0.4	0.0068 J	< 0.18	< 0.0045	0.079	< 0.0039	< 0.039	
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	2.5	< 0.004	< 0.0038	1.1	0.025	< 0.18	< 0.0045	0.2	0.011	0.21	
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)															
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)															
Aroclor-1254	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)															
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids															
Percent Solids (percent)	NLE	NLE	NLE	-	96.6	82.8	87.5	88.3	87.7	93.8	73.7	84	85.5	83.7	
Wet Chemistry - Solids															
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

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###

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TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	PAR-57-SS-21		PAR-57-SS-22		PAR-57-SS-23		PAR-57-SS-24	PAR-57-SS-25	P57-A1		
Sample ID					FTMM-57-SS21-0.0-0.5	FTMM-57-SS21-3.0-3.5	FTMM-57-SS22-0.0-0.5	FTMM-57-SS22-3.0-3.5	FTMM-57-SS23-0.0-0.5	FTMM-57-SS23-3.0-3.5	FTMM-57-SS24-0.0-0.5	FTMM-57-SS25-0.0-0.5	P57-A1-A	P57-A1-B	P57-A1-C
Sample Date					0-0.5 10/2/2015	3-3.5 10/2/2015	0-0.5 10/2/2015	3-3.5 10/2/2015	0-0.5 10/2/2015	3-3.5 10/2/2015	0-0.5 10/2/2015	0-0.5 10/2/2015	0.5-1 12/11/2007	1.5-2 12/11/2007	7.5-8 12/11/2007
Volatile Organic Compounds (mg/kg)															
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	0.4
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	< 0.33
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	< 0.33
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	< 0.33
Total Xylenes	12,000	170,000	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.78	< 0.99
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	< 0.33
Vinyl acetate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	< 0.33
Semivolatile Organic Compounds (mg/kg)															
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA	NA	NA	1.4	NA	< 1.3
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA	NA	NA	1.2	NA	< 1.3
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	0.76 J	NA	< 1.3
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA	NA	NA	5.6	NA	< 1.3
Benzo(a)anthracene	5	17	0.8	-	7.8	0.15	0.32	0.033	0.21	0.06	0.1	0.0076	9.5 JD	NA	< 1.3
Benzo(a)pyrene	0.5	2	0.2	-	8.2	0.15	0.39	0.035	0.28	0.059	0.1	0.0076	9.9 JD	NA	< 1.3
Benzo(b)fluoranthene	5	17	2	-	11	0.2	0.53	0.048	0.4	0.085	0.16	0.0087	9.9 JD	NA	< 1.3
Benzo(g)h)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	3.4	NA	< 1.3
Benzo(k)fluoranthene	45	170	25	-	3.2	0.061	0.17	0.015	0.12	0.037	0.061	0.0018 J	7	NA	< 1.3
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	NA	0.08 J
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	NA	< 1.3
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA	NA	NA	10 JD	NA	< 1.3
Dibenz(a,h)anthracene	0.5	2	0.8	-	2.3	0.039	0.1	0.0086	0.07	0.014	0.022	< 0.0036	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	1.8	NA	< 1.3
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA	NA	NA	0.21 J	NA	0.99 J
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA	NA	NA	25 D	NA	0.058 J
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA	NA	NA	2.2	NA	< 1.3
Indeno(1,2,3-cd)pyrene	5	17	7	-	6	0.098	0.38	0.025	0.24	0.037	0.072	0.0047 J	3.2	NA	< 1.3
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA	NA	NA	0.88 J	NA	< 1.3
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	19 D	NA	< 1.3
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA	NA	NA	22 D	NA	0.05 J
TIC SVOCs (mg/kg)															
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)															
Aroclor-1254	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)															
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA	NA	NA	17.8	NA	9.11
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA	NA	NA	0.769	NA	0.926
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA	NA	NA	0.325	NA	0.221
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA	NA	NA	1.98	NA	0.526
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA	NA	NA	15.9	NA	0.525
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	< 0.119
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA	NA	NA	7.56	NA	4.39
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA	42.5	NA	< 41.667
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA	NA	NA	45.7	NA	60.5
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA	NA	NA	39.1	NA	46.9
Wet Chemistry - Solids															
Percent Solids (percent)	NLE	NLE	NLE	-	96.3	87.6	90.1	92.8	88.5	87.5	79.8	92.6	NA	NA	NA
Wet Chemistry - Solids															
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

E (or ER) = Estimated result.

R = Rejected, data validation rejected the results.

D = Results from dilution of sample.

U = non-detect, i.e. not detected at or above this value.

J-DL = Elevated sample detection limit due to difficult sample matrix.

U-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

####

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

###

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

###

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

###

4) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Impact to GW Soil Screening Level criteria refers to the Development of Site Specific Impact to Ground Water Soil Remediation Standards - Nov 2013 revised

http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

5) Alternative Soil Remediation Standard, Section 4.3.1 and Attachment F

TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	P57-A1-A	P57-A1-B	P57-A1-C	P57-A1-D	P57-A1-E	P57-A2			P57-A3			P57-A4			P57-A5		
Sample ID					P57-SS-A1-A-6.5-7.0	P57-SS-A1-B-6.5-7.0	P57-SS-A1-C-8.0-8.5	P57-SS-A1-D-6.0-6.5	P57-SS-A1-E-5.5-6.0	P57-A2-A	P57-A2-B	P57-A2-C	P57-A3-A	P57-A3-B	P57-A3-C	P57-A4-A	P57-A4-B	P57-A4-C	P57-A5-A	P57-A5-B	P57-A5-C
Sample Date					6.5-7 11/22/2010	6.5-7 11/22/2010	8-8.5 11/22/2010	6-6.5 11/22/2010	5.5-6 11/22/2010	0-0.5 12/8/2007	1.5-2 12/8/2007	5.5-6 12/8/2007	0.5-1 12/11/2007	1.5-2 12/11/2007	4-4.5 12/11/2007	0.5-1 12/10/2007	1.5-2 12/10/2007	6.5-7 12/10/2007	0.5-1 12/11/2007	1.5-2 12/11/2007	7.5-8 12/11/2007
Volatile Organic Compounds (mg/kg)																					
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	< 0.24	< 0.32	NA	0.42	0.3	NA	0.043 J	0.45	NA	0.34	0.42
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	0.017 J	< 0.32	NA	< 0.26	< 0.25	NA	< 0.33	< 0.29	NA	< 0.25	< 0.28
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	0.023 J	< 0.32	NA	< 0.26	< 0.25	NA	< 0.33	< 0.29	NA	< 0.25	< 0.28
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	0.077 J	< 0.32	NA	< 0.26	< 0.25	NA	0.069 J	< 0.29	NA	< 0.25	< 0.28
Total Xylenes	12,000	170,000	19	-	NA	NA	NA	NA	NA	NA	0.35 J	< 0.95	NA	< 0.78	< 0.75	NA	< 1	< 0.87	NA	< 0.76	< 0.84
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	< 0.24	< 0.32	NA	< 0.26	< 0.25	NA	< 0.33	< 0.29	NA	0.069 J	< 0.28
Vinyl acetate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	< 0.24	< 0.32	NA	< 0.26	< 0.25	NA	< 0.33	< 0.29	NA	< 0.25	< 0.28
Semivolatile Organic Compounds (mg/kg)																					
2-Methylnaphthalene	230	2,400	8	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.075 J	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Acenaphthene	3,400	37,000	110	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	0.085 J	NA	< 1.2
Acenaphthylene	NLE	300,000	NLE	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	0.077 J	NA	< 1.1	0.061 J	NA	< 1.2
Anthracene	17,000	30,000	2,400	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.055 J	NA	< 1.3	< 1.2	NA	< 1.1	0.16 J	NA	< 1.1	0.18 J	NA	< 1.2
Benzo(a)anthracene	5	17	0.8	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.22 J	NA	< 1.3	0.1 J	NA	< 1.1	0.31 J	NA	< 1.1	0.34 J	NA	< 1.2
Benzo(a)pyrene	0.5	2	0.2	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.21 J	NA	< 1.3	< 1.2	NA	< 1.1	0.35 J	NA	< 1.1	< 1.1	NA	< 1.2
Benzo(b)fluoranthene	5	17	2	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.33 J	NA	< 1.3	< 1.2	NA	< 1.1	0.47 J	NA	< 1.1	0.52 J	NA	< 1.2
Benzo(ghi)perylene	380,000	30,000	NLE	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Benzo(k)fluoranthene	45	170	25	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.11 J	NA	< 1.3	< 1.2	NA	< 1.1	0.16 J	NA	< 1.1	0.21 J	NA	< 1.2
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.099 J	NA	0.052 J	< 1.2	NA	0.086 J	0.15 J	NA	< 1.1	3.2	NA	0.067 J
Butyl benzyl phthalate	1,200	14,000	230	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Chrysene	450	1,700	80	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.27 J	NA	< 1.3	0.13 J	NA	< 1.1	0.39 J	NA	< 1.1	0.43 J	NA	< 1.2
Dibenz(a,h)anthracene	0.5	2	0.8	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	0.032 J	NA	< 1.1	0.061 J	NA	< 1.2
Di-n-butylphthalate	6,100	68,000	760	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	< 2.7	NA	< 1.8	0.82 J	NA	1.5	< 0.49	NA	< 1.4	1.3	NA	0.3 J
Fluoranthene	2,300	24,000	1,300	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.42 J	NA	< 1.3	0.28 J	NA	< 1.1	0.68 J	NA	< 1.1	0.9 J	NA	0.077 J
Fluorene	2,300	24,000	170	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Indeno(1,2,3-cd)pyrene	5	17	7	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.082 J	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Naphthalene	6	17	25	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.051 J	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Phenanthrene	NLE	300,000	NLE	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.2 J	NA	< 1.3	0.14 J	NA	< 1.1	0.51 J	NA	0.041 J	0.66 J	NA	0.057 J
Pyrene	1,700	18,000	840	-	< 0.62	< 0.62	< 0.65	< 0.63	NA U	0.41 J	NA	< 1.3	0.3 J	NA	< 1.1	0.82 J	NA	0.034 J	1.1 J	NA	0.074 J
TIC SVOCs (mg/kg)																					
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	97.4 J	114 J	91 J	110 J	99 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																					
Aroclor-1254	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)																					
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	7.39	NA	11.4	12.4	NA	2.73	6.16	NA	8.12	6.05	NA	6.04
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	0.882	NA	1.54	1.35	NA	0.271	0.527	NA	1.61	0.52	NA	1.02
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	0.384	NA	0.311	0.426	NA	0.112	0.468	NA	0.497	0.425	NA	0.203
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	3.48	NA	0.832	1.79	NA	< 0.338	8.52	NA	1.3	4.8	NA	< 0.347
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	22.8	NA	3.88	11.2	NA	3.01	21	NA	< 0.351	29.3	NA	3.05
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	< 0.11	NA	< 0.122	< 0.116	NA	< 0.099	< 0.105	NA	< 0.109	< 0.113	NA	< 0.101
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	10.4	NA	50.3	14.6	NA	2.76	17.6	NA	44.1	11.5	NA	5.57
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	< 38.48	NA	< 43.926	< 42.214	NA	< 38.483	904	NA	< 37.586	434	NA	< 39.424
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	NA	NA	NA	NA	NA	49.9	NA	86.1	77.6	NA	18.1	60.4	NA	70.2	43.3	NA	40.9
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	61.7	NA	72.6	70.2	NA	36.5	65	NA	165	74.4	NA	80.4
Wet Chemistry - Solids																					
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids																					
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

E (or ER) = Estimated result.

R = Rejected, data validation rejected the results.

D = Results from dilution of sample.

U = non-detect, i.e. not detected at or above this value.

J-DL = Elevated sample detection limit due to difficult sample matrix.

U-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

####

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

###

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

###

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

###

4) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

[http](http://www.nj.gov/dep/rules/rules/njac7_26d.pdf)

TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	P57-A6			P57-A7			P57-A8			P57-A9				P57-B3		
Sample ID					P57-A6-A	P57-A6-B	P57-A6-C	P57-A7-A	P57-A7-B	P57-A7-C	P57-A8-A	P57-A8-B	P57-A8-C	P57-A9-A	P57-A9-B	P57-A9-C	P57-A9-C DUP	P57-B3-A	P57-B3-B	P57-B3-C
Sample Date					0.5-1 12/10/2007	1.5-2 12/10/2007	7-7.5 12/10/2007	0-0.5 12/11/2007	1.5-2 12/11/2007	5.5-6 12/11/2007	0.5-1 12/10/2007	1.5-2 12/10/2007	6-6.5 12/10/2007	0-0.5 12/11/2007	1.5-2 12/11/2007	7.5-8 12/11/2007	7.5-8 12/11/2007	0.5-1 12/8/2007	1.5-2 12/8/2007	7-7.5 12/8/2007
Volatile Organic Compounds (mg/kg)																				
Acetone	70,000	NLE	19	-	NA	0.4	0.38	NA	0.61	0.34	NA	0.39	0.56	NA	0.51	0.49	0.73	NA	< 0.26	< 0.33
Benzene	2	5	0.005	-	NA	< 0.27	< 0.26	NA	< 0.27	< 0.28	NA	< 0.26	< 0.27	NA	< 0.26	< 0.25	< 0.29	NA	< 0.26	< 0.33
Ethyl benzene	7,800	110,000	13	-	NA	< 0.27	< 0.26	NA	< 0.27	< 0.28	NA	< 0.26	< 0.27	NA	< 0.26	< 0.25	< 0.29	NA	< 0.26	< 0.33
Toluene	6,300	91,000	7	-	NA	< 0.27	< 0.26	NA	< 0.27	0.024 J	NA	< 0.26	< 0.27	NA	< 0.26	< 0.25	< 0.29	NA	< 0.26	< 0.33
Total Xylenes	12,000	170,000	19	-	NA	< 0.81	< 0.78	NA	< 0.82	0.021 J	NA	< 0.77	< 0.81	NA	< 0.79	< 0.75	< 0.87	NA	< 0.79	< 0.98
Trichlorofluoromethane	23,000	340,000	34	-	NA	< 0.27	< 0.26	NA	< 0.27	< 0.28	NA	< 0.26	< 0.27	NA	< 0.26	< 0.25	< 0.29	NA	< 0.26	< 0.33
Vinyl acetate	NLE	NLE	NLE	-	NA	< 0.27	< 0.26	NA	< 0.27	< 0.28	NA	0.21 J	< 0.27	NA	< 0.26	< 0.25	0.24 J	NA	< 0.26	< 0.33
Semivolatile Organic Compounds (mg/kg)																				
2-Methylnaphthalene	230	2,400	8	-	0.091 J	NA	< 1.1	< 1.1	NA	< 1.1	< 4.4	NA	< 1.1	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2
Acenaphthene	3,400	37,000	110	-	0.07 J	NA	< 1.1	< 1.1	NA	< 1.1	< 4.4	NA	< 1.1	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2
Acenaphthylene	NLE	300,000	NLE	-	0.059 J	NA	< 1.1	< 1.1	NA	0.069 J	0.17 J	NA	< 1.1	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2
Anthracene	17,000	30,000	2,400	-	0.15 J	NA	0.03 J	0.058 J	NA	0.039 J	0.52 J	NA	< 1.1	< 1.2	NA	< 1.1	0.11 J	0.049 J	NA	< 1.2
Benzo(a)anthracene	5	17	0.8	-	0.35 J	NA	0.054 J	0.24 J	NA	0.1 J	1.1 J	NA	< 1.1	0.089 J	NA	< 1.1	0.23 J	0.21 J	NA	< 1.2
Benzo(a)pyrene	0.5	2	0.2	-	< 1.1	NA	< 1.1	0.24 J	NA	0.088 J	< 4.4	NA	< 1.1	0.08 J	NA	< 1.1	0.15 J	< 1.1	NA	< 1.2
Benzo(b)fluoranthene	5	17	2	-	< 1.1	NA	0.069 J	0.43 J	NA	0.072 J	< 4.4	NA	< 1.1	0.13 J	NA	< 1.1	0.22 J	< 1.1	NA	< 1.2
Benzo(g,h,i)perylene	380,000	30,000	NLE	-	< 1.1	NA	< 1.1	< 1.1	NA	< 1.1	< 4.4	NA	< 1.1	< 1.2	NA	< 1.1	0.1 J	< 1.1	NA	< 1.2
Benzo(k)fluoranthene	45	170	25	-	< 1.1	NA	0.039 J	0.1 J	NA	0.077 J	< 4.4	NA	< 1.1	< 1.2	NA	< 1.1	0.093 J	< 1.1	NA	< 1.2
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	< 1.1	NA	0.044 J	1.9	NA	0.73 J	1.2 J	NA	0.11 J	0.18 J	NA	0.1 J	0.062 J	0.15 J	NA	< 1.2
Butyl benzyl phthalate	1,200	14,000	230	-	< 1.1	NA	< 1.1	< 1.1	NA	< 1.1	< 4.4	NA	< 1.1	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2
Chrysene	450	1,700	80	-	0.47 J	NA	0.077 J	0.32 J	NA	0.14 J	1.5 J	NA	< 1.1	0.12 J	NA	< 1.1	0.25 J	0.25 J	NA	< 1.2
Dibenz(a,h)anthracene	0.5	2	0.8	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	< 1.1	NA	< 1.1	< 1.1	NA	< 1.1	0.17 J	NA	< 1.1	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2
Di-n-butylphthalate	6,100	68,000	760	-	< 1.1	NA	< 0.38	1.5	NA	0.81 J	< 2.3	NA	< 3.8	0.34 J	NA		1 J	< 1.6	NA	< 0.63
Fluoranthene	2,300	24,000	1,300	-	0.85 J	NA	0.13 J	0.58 J	NA	0.14 J	2.4 J	NA	0.055 J	0.17 J	NA	< 1.1	0.68 J	0.32 J	NA	< 1.2
Fluorene	2,300	24,000	170	-	0.073 J	NA	< 1.1	< 1.1	NA	< 1.1	0.28 J	NA	< 1.1	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2
Indeno(1,2,3-cd)pyrene	5	17	7	-	< 1.1	NA	< 1.1	< 1.1	NA	< 1.1	< 4.4	NA	< 1.1	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2
Naphthalene	6	17	25	-	0.043 J	NA	< 1.1	< 1.1	NA	< 1.1	0.16 J	NA	< 1.1	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2
Phenanthrene	NLE	300,000	NLE	-	0.67 J	NA	0.1 J	0.27 J	NA	0.05 J	2.1 J	NA	0.031 J	0.1 J	NA	< 1.1	0.51 J	0.18 J	NA	< 1.2
Pyrene	1,700	18,000	840	-	1.3	NA	0.15 J	0.55 J	NA	0.21 J	4 J	NA	0.051 J	0.2 J	NA	< 1.1	0.58 J	0.5 J	NA	< 1.2
TIC SVOCs (mg/kg)																				
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																				
Aroclor-1254	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)																				
Arsenic	19	19	19	22.9	4.58	NA	13.2	8.01	NA	4.58	2.84	NA	8.05	10.3	NA	2.42	1.7	7.58	NA	11
Beryllium	16	140	0.7	2	0.346	NA	1.23	0.529	NA	0.524	0.259	NA	0.556	0.933	NA	0.462	0.475	1.25	NA	0.917
Cadmium	78	78	2	ND	0.435	NA	0.359	0.329	NA	0.185	0.247	NA	0.0843	0.306	NA	0.135	0.126	0.193	NA	0.261
Cobalt	1,600	590	90	2.5	5.53	NA	1.7	1.32	NA	0.876	6.6	NA	< 0.337	1.42	NA	< 0.332	< 0.333	1.94	NA	2.47
Lead	400	800	90	19.5	15.7	NA	7.57	29.5	NA	7	9.78	NA	1.65	28.9	NA	40.7	38	7.69	NA	7.04
Mercury	23	65	0.1	ND	< 0.099	NA	< 0.108	< 0.106	NA	< 0.101	< 0.104	NA	< 0.109	< 0.109	NA	< 0.106	< 0.114	< 0.11	NA	< 0.116
Nickel	1,600	23,000	48	8.4	20	NA	10.3	6.45	NA	4.43	14.5	NA	2.27	6.97	NA	2.35	2.49	6.29	NA	11
Sodium	NLE	NLE	NLE	51.6	539	NA	< 41.362	< 36.479	NA	< 38.989	429	NA	< 38.358	< 38.584	NA	< 37.822	< 37.867	< 37.752	NA	< 43.828
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	46.8	NA	63.9	37.5	NA	29.7	70.6	NA	40.6	47	NA	19.4	18.2	51.2	NA	62.7
Zinc	23,000	110,000	930	81.4	70.4	NA	58.2	76.4	NA	35.8	50.4	NA	14.4	57.8	NA	29.4	28.8	72.5	NA	57.9
Wet Chemistry - Solids																				
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids																				
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

E (or ER) = Estimated result.

R = Rejected, data validation rejected the results.

D = Results from dilution of sample.

U = non-detect, i.e. not detected at or above this value.

J-DL = Elevated sample detection limit due to difficult sample matrix.

U-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

####

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

###

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

###

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

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4) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Impact to GW Soil Screening Level criteria refers to the Development of Site Specific Impact to Ground Water Soil Remediation Standards - Nov 2013 revised

http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

5) Alternative Soil Remediation Standard, Section 4.3.1 and Attachment F

TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	P57-B4			P57-B5		P57-B5		P57-C3				P57-C4			P57-C5		
Sample ID	Direct Contact SRS	Contact SRS	Level	(Main Post)	P57-B4-A	P57-B4-B	P57-B4-C	P57-B5-A	P57-B5-B	P57-B5-C	P57-B5-C DUP	P57-C3-A	P57-C3-B	P57-C3-C	P57-C3-C DUP	P57-C4-A	P57-C4-B	P57-C4-C	P57-C5-A	P57-C5-B	P57-C5-C
Sample Date					0.5-1 12/8/2007	1.5-2 12/8/2007	6.5-7 12/8/2007	0.5-1 12/10/2007	1.5-2 12/10/2007	6.5-7 12/10/2007	6.5-7 12/10/2007	0.5-1 12/8/2007	1.5-2 12/8/2007	6.5-7 12/8/2007	6.5-7 12/8/2007	0.5-1 12/10/2007	1.5-2 12/10/2007	6.5-7 12/10/2007	0.5-1 12/10/2007	1.5-2 12/10/2007	6.5-7 12/10/2007
Volatile Organic Compounds (mg/kg)																					
Acetone	70,000	NLE	19	-	NA	< 0.26	< 0.28	NA	< 0.27	< 0.35	0.28 J	NA	< 0.27	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	0.28 J	< 0.32
Benzene	2	5	0.005	-	NA	< 0.26	< 0.28	NA	< 0.27	< 0.35	< 0.3	NA	< 0.27	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	< 0.3	< 0.32
Ethyl benzene	7,800	110,000	13	-	NA	< 0.26	< 0.28	NA	< 0.27	< 0.35	< 0.3	NA	0.011 J	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	< 0.3	< 0.32
Toluene	6,300	91,000	7	-	NA	< 0.26	< 0.28	NA	< 0.27	< 0.35	< 0.3	NA	< 0.27	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	< 0.3	< 0.32
Total Xylenes	12,000	170,000	19	-	NA	< 0.79	< 0.84	NA	< 0.81	< 1.06	< 0.9	NA	< 0.81	< 0.78	< 0.78	NA	< 0.92	< 0.81	NA	< 0.99	< 0.96
Trichlorofluoromethane	23,000	340,000	34	-	NA	< 0.26	< 0.28	NA	< 0.27	< 0.35	< 0.3	NA	< 0.27	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	< 0.3	< 0.32
Vinyl acetate	NLE	NLE	NLE	-	NA	< 0.26	< 0.28	NA	< 0.27	< 0.35	< 0.3	NA	< 0.27	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	< 0.3	< 0.32
Semivolatile Organic Compounds (mg/kg)																					
2-Methylnaphthalene	230	2,400	8	-	0.08 J	NA	< 1.1	< 1.1	NA	< 1.2	< 1.2	0.075 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	< 1.1	NA	< 1.1
Acenaphthene	3,400	37,000	110	-	0.041 J	NA	< 1.1	0.066 J	NA	< 1.2	< 1.2	0.54 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	0.078 J	NA	< 1.1
Acenaphthylene	NLE	300,000	NLE	-	0.071 J	NA	< 1.1	0.039 J	NA	< 1.2	< 1.2	0.097 J	NA	< 1.1	< 1.1	0.19 J	NA	< 1.1	0.1 J	NA	< 1.1
Anthracene	17,000	30,000	2,400	-	0.2 J	NA	< 1.1	0.2 J	NA	< 1.2	< 1.2	1.2	NA	< 1.1	< 1.1	0.13 J	NA	< 1.1	0.43 J	NA	< 1.1
Benzo(a)anthracene	5	17	0.8	-	0.6 J	NA	< 1.1	0.46 J	NA	< 1.2	< 1.2	2.9	NA	0.1 J	< 1.1	0.42 J	NA	< 1.1	1.2	NA	< 1.1
Benzo(a)pyrene	0.5	2	0.2	-	0.48 J	NA	< 1.1	< 1.1	NA	< 1.2	< 1.2	2	NA	0.081 J	< 1.1	0.47 J	NA	< 1.1	0.95 J	NA	< 1.1
Benzo(b)fluoranthene	5	17	2	-	0.79 J	NA	< 1.1	0.52 J	NA	< 1.2	< 1.2	3.1	NA	0.11 J	< 1.1	0.65 J	NA	< 1.1	1.5	NA	< 1.1
Benzo(ghi)perylene	380,000	30,000	NLE	-	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2	< 1.2	0.73 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	< 1.1	NA	< 1.1
Benzo(k)fluoranthene	45	170	25	-	0.36 J	NA	< 1.1	0.35 J	NA	< 1.2	< 1.2	1.9	NA	0.059 J	< 1.1	0.29 J	NA	< 1.1	0.48 J	NA	< 1.1
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	0.13 J	NA	< 1.1	0.3 J	NA	< 1.2	0.087 J	0.22 J	NA	0.092 J	0.09 J	0.2 J	NA	< 1.1	1.1	NA	< 1.1
Butyl benzyl phthalate	1,200	14,000	230	-	< 1.1	NA	< 1.1	0.13 J	NA	< 1.2	< 1.2	< 1.1	NA	< 1.1	< 1.1	< 1	NA	< 1.1	< 1.1	NA	< 1.1
Chrysene	450	1,700	80	-	0.69 J	NA	< 1.1	0.51 J	NA	< 1.2	< 1.2	3	NA	0.12 J	< 1.1	0.52 J	NA	< 1.1	1.3	NA	< 1.1
Dibenz(a,h)anthracene	0.5	2	0.8	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	0.064 J	NA	< 1.1	0.057 J	NA	< 1.2	< 1.2	0.26 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	0.058 J	NA	< 1.1
Di-n-butylphthalate	6,100	68,000	760	-	< 1.7	NA	< 0.61	< 0.76	NA	< 0.91	< 2.7	< 2	NA	< 2.4	< 0.41	< 0.77	NA	< 0.57	< 0.64	NA	< 0.58
Fluoranthene	2,300	24,000	1,300	-	1.4	NA	< 1.1	0.99 J	NA	< 1.2	< 1.2	7.5	NA	0.12 J	0.041 J	0.64 J	NA	< 1.1	2.6	NA	< 1.1
Fluorene	2,300	24,000	170	-	0.038 J	NA	< 1.1	< 1.1	NA	< 1.2	< 1.2	0.38 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	0.11 J	NA	< 1.1
Indeno(1,2,3-cd)pyrene	5	17	7	-	0.15 J	NA	< 1.1	< 1.1	NA	< 1.2	< 1.2	0.69 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	0.33 J	NA	< 1.1
Naphthalene	6	17	25	-	0.065 J	NA	< 1.1	< 1.1	NA	< 1.2	< 1.2	0.12 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	< 1.1	NA	< 1.1
Phenanthrene	NLE	300,000	NLE	-	0.75 J	NA	< 1.1	1 J	NA	< 1.2	< 1.2	4.7	NA	0.033 J	< 1.1	0.26 J	NA	< 1.1	1.4	NA	< 1.1
Pyrene	1,700	18,000	840	-	1.6	NA	< 1.1	1.6	NA	< 1.2	< 1.2	9.4	NA	0.16 J	0.041 J	1.2	NA	< 1.1	3.6	NA	< 1.1
TIC SVOCs (mg/kg)																					
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																					
Aroclor-1254	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)																					
Arsenic	19	19	19	22.9	5.89	NA	6.21	5.03	NA	7.71	9.35	2.36	NA	4.98	3.65	5.4	NA	11.4	4.64	NA	2.04
Beryllium	16	140	0.7	2	0.517	NA	0.516	0.54	NA	1.06	1.18	0.494	NA	0.637	0.508	0.59	NA	1.33	0.615	NA	0.326
Cadmium	78	78	2	ND	0.318	NA	0.414	0.289	NA	0.317	0.534	0.163	NA	0.194	0.0962	0.362	NA	0.196	0.319	NA	0.0535
Cobalt	1,600	590	90	2.5	2.82	NA	2.93	5.07	NA	1.64	1.58	0.756	NA	1.11	1.43	8.68	NA	1.42	3.13	NA	< 0.326
Lead	400	800	90	19.5	20.3	NA	51.4	15	NA	3.03	2.82	4.81	NA	5.1	4.66	30.1	NA	1.2	51.6	NA	1.4
Mercury	23	65	0.1	ND	< 0.102	NA	< 0.102	< 0.107	NA	< 0.114	< 0.11	0.16	NA	< 0.1	< 0.101	< 0.098	NA	< 0.096	< 0.099	NA	< 0.099
Nickel	1,600	23,000	48	8.4	8.92	NA	8.99	9.44	NA	8.71	8.98	5.59	NA	5.79	7.16	14.1	NA	5.97	9.05	NA	3.63
Sodium	NLE	NLE	NLE	51.6	< 36,969	NA	< 39,984	48.6	NA	< 42.72	< 39,581	< 40,694	NA	< 35,244	< 37,691	688	NA	< 36,431	< 40,061	NA	< 37,124
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	40.8	NA	40	59.1	NA	85.3	91.4	30.9	NA	46.7	36.6	65.3	NA	60	65.3	NA	24.5
Zinc	23,000	110,000	930	81.4	50.5	NA	84.8	46.2	NA	62.6	67	25.2	NA	39.8	43.6	53.6	NA	61.5	58.2	NA	28
Wet Chemistry - Solids																					
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids																					
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

E (or ER) = Estimated result.

R = Rejected, data validation rejected the results.

D = Results from dilution of sample.

U = non-detect, i.e. not detected at or above this value.

J-DL = Elevated sample detection limit due to difficult sample matrix.

U-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

####

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

###

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

###

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

###

4) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	PAR-57-SS-26				PAR-57-SS-27			PAR-57-SS-28			PAR-57-SS-29		
Sample ID					PAR-57-SB-126-3.5-4	PAR-57-SB-26-0.5-1	PAR-57-SB-26-3.5-4	PAR-57-SB-26-7.5-8	PAR-57-SB-27-0-0.5	PAR-57-SB-27-3.5-4	PAR-57-SB-27-7.5-8	PAR-57-SB-28-0.5-1	PAR-57-SB-28-3.5-4	PAR-57-SB-28-7.5-8	PAR-57-SB-29-0.5-1	PAR-57-SB-29-3.5-4	PAR-57-SB-29-7.5-8
Sample Date					3.5-4 4/22/2016	0.5-1 4/22/2016	3.5-4 4/22/2016	7.5-8 4/22/2016	0-0.5 4/22/2016	3.5-4 4/22/2016	7.5-8 4/22/2016	0.5-1 4/22/2016	3.5-4 4/22/2016	7.5-8 4/22/2016	0.5-1 4/22/2016	3.5-4 4/22/2016	7.5-8 4/22/2016
Volatile Organic Compounds (mg/kg)																	
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	12,000	170,000	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)																	
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	0.0035 J	0.12	< 0.004	0.0041 J	0.12	< 0.0039	< 0.0039	0.4	0.0032 J	< 0.0042	1.6	0.0073 J	0.0025 J
Benzo(a)pyrene	0.5	2	0.2	-	< 0.0042	0.12	< 0.004	0.0021 J	0.17	< 0.0039	< 0.0039	0.32	< 0.0042	< 0.0042	1.2	0.005 J	< 0.0041
Benzo(b)fluoranthene	5	17	2	-	< 0.0042	0.15	< 0.004	0.0031 J	0.2	< 0.0039	< 0.0039	0.28	< 0.0042	< 0.0042	1.1	0.0038 J	< 0.0041
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	< 0.0042	0.024	< 0.004	< 0.0039	0.027	< 0.0039	< 0.0039	0.057	< 0.0042	< 0.0042	0.21	< 0.0039	< 0.0041
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	< 0.0042	0.099	< 0.004	< 0.0039	0.12	< 0.0039	< 0.0039	0.16	< 0.0042	< 0.0042	0.67	0.0023 J	< 0.0041
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)																	
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																	
Aroclor-1254	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)																	
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids																	
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids																	
Percent Solids (percent)	NLE	NLE	NLE	-	78.5	82.6	83.2	83.5	92.6	83.8	85.3	87.4	77.9	78.1	94.2	84	80

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

E (or ER) = Estimated result.

R = Rejected, data validation rejected the results.

D = Results from dilution of sample.

U = non-detect, i.e. not detected at or above this value.

J-DL = Elevated sample detection limit due to difficult sample matrix.

U-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

####

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

###

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

###

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct Contact Soil Remediation Standard.

###

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

###

4) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Impact to GW Soil Screening Level criteria refers to the Development of Site Specific Impact to Ground Water Soil Remediation Standards - Nov 2013 revised

http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

5) Alternative Soil Remediation Standard, Section 4.3.1 and Attachment F

TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	PAR-57-SS-30			PAR-57-SS-31			PAR-57-SS-32		PAR-57-SS-33		PAR-57-SS-34	
Sample ID					PAR-57-SB-30-0.5-1	PAR-57-SB-30-3.5-4	PAR-57-SB-30-7.5-8	PAR-57-SB-31-0.5-1	PAR-57-SB-31-3.5-4	PAR-57-SB-31-7.5-8	PAR-57-SB-32-0.5-1	PAR-57-SB-32-3.5-4	PAR-57-SB-33-0.5-1	PAR-57-SB-33-3.5-4	PAR-57-SB-34-0.5-1	PAR-57-SB-34-3.5-4
Sample Date					0.5-1 4/22/2016	3.5-4 4/22/2016	7.5-8 4/22/2016	0.5-1 4/22/2016	3.5-4 4/22/2016	7.5-8 4/22/2016	0.5-1 4/22/2016	3.5-4 4/22/2016	0.5-1 4/22/2016	3.5-4 4/22/2016	0.5-1 4/22/2016	3.5-4 4/22/2016
Volatile Organic Compounds (mg/kg)																
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	12,000	170,000	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)																
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	0.3	< 0.004	0.0027 J	0.035	0.052	0.0026 J	0.25	0.0035 J	0.009	< 0.0042	0.0033 J	< 0.0038
Benzo(a)pyrene	0.5	2	0.2	-	0.32	< 0.004	0.003 J	0.061	0.07	< 0.0039	0.27	< 0.0038	0.013	< 0.0042	< 0.0041	< 0.0038
Benzo(b)fluoranthene	5	17	2	-	0.43	< 0.004	< 0.0036	0.053	0.062	< 0.0039	0.34	< 0.0038	0.014	< 0.0042	< 0.0041	< 0.0038
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	0.057	< 0.004	< 0.0036	0.014	0.018	< 0.0039	0.035	< 0.0038	0.0026 J	< 0.0042	< 0.0041	< 0.0038
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	0.19	< 0.004	0.0033 J	0.047	0.056	< 0.0039	0.21	< 0.0038	0.0098	< 0.0042	< 0.0041	< 0.0038
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)																
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																
Aroclor-1254	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.2	1	0.2	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)																
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids																
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids																
Percent Solids (percent)	NLE	NLE	NLE	-	96	83.1	90.8	86.4	93.3	84.6	82.2	86.1	88.3	79.2	80.6	85.8

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

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[blank] = detect, i.e. detected chemical result value.

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####

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4) Criteria action level source document and web address.

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DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	PAR-57-SS-35		PAR-57-SS-36	PAR-57-SS-37				PAR-57-SS-38		
Sample ID	Contact SRS	Contact SRS			PAR-57-SB-35-0.5-1	PAR-57-SB-35-3.5-4	PAR-57-SB-36-4.5-5	PAR-57-SB-137-2.5-3	PAR-57-SB-37-0.5-1	PAR-57-SB-37-2.5-3	PAR-57-SB-37-4.5-5	PAR-57-SB-38-0.5-1	PAR-57-SB-38-2.5-3	PAR-57-SB-38-4.5-5
					0.5-1	3.5-4	4.5-5	2.5-3	0.5-1	2.5-3	4.5-5	0.5-1	2.5-3	4.5-5
Sample Date					4/22/2016	4/22/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016
Volatile Organic Compounds (mg/kg)														
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	12,000	170,000	19	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)														
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	< 0.0038	< 0.004	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.5	2	0.2	-	< 0.0038	< 0.004	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5	17	2	-	< 0.0038	< 0.004	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	< 0.0038	< 0.004	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	< 0.0038	< 0.004	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)														
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)														
Aroclor-1254	0.2	1	0.2	-	NA	NA	< 0.024	< 0.022	< 0.021	< 0.022	< 0.023	< 0.022	< 0.023	< 0.024
Aroclor-1260	0.2	1	0.2	-	NA	NA	< 0.022	< 0.02	0.057	< 0.019	< 0.021	0.048	< 0.02	< 0.022
Inorganics (mg/kg)														
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids														
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids														
Percent Solids (percent)	NLE	NLE	NLE	-	86.2	83.2	80.8	89	91	89.9	84.5	88.8	85.1	80.2

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

E (or ER) = Estimated result.

R = Rejected, data validation rejected the results.

D = Results from dilution of sample.

U = non-detect, i.e. not detected at or above this value.

J-DL = Elevated sample detection limit due to difficult sample matrix.

U-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

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There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

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- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

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- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

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n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct Contact Soil Remediation Standard.

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- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.

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4) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Impact to GW Soil Screening Level criteria refers to the Development of Site Specific Impact to Ground Water Soil Remediation Standards - Nov 2013 revised

http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

5) Alternative Soil Remediation Standard, Section 4.3.1 and Attachment F

TABLE 1
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NJDEP
DIRECT CONTACT CRITERIA
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	PAR-57-SS-39			PAR-57-SS-40			
Sample ID					PAR-57-SB-39-0.5-1	PAR-57-SB-39-2.5-3	PAR-57-SB-39-4.5-5	PAR-57-SB-140-2.5-3	PAR-57-SB-40-0.5-1	PAR-57-SB-40-2.5-3	PAR-57-SB-40-4.5-5
Sample Date					0.5-1	2.5-3	4.5-5	2.5-3	0.5-1	2.5-3	4.5-5
					4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016
Volatile Organic Compounds (mg/kg)											
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	12,000	170,000	19	-	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)											
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.5	2	0.2	-	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5	17	2	-	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	NA	NA	NA	NA	NA	NA	NA
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)											
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)											
Aroclor-1254	0.2	1	0.2	-	< 0.022	< 0.022	< 0.023	< 0.022	< 0.024	< 0.032	< 0.024
Aroclor-1260	0.2	1	0.2	-	< 0.02	< 0.02	< 0.021	< 0.02	0.068	< 0.029	< 0.022
Inorganics (mg/kg)											
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA
Vanadium	390 ⁽⁵⁾	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	89.2	87.1	82.9	86.5	80.9	89.4	80

Footnote:

- 1) All historical data collected prior to 2013 are reported as provided by others.

2) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.
- J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

3) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct Contact Soil Remediation Standard.

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.
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4) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards
http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 Remediation Standards
http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Impact to GW Soil Screening Level criteria refers to the Development of Site Specific Impact to Ground Water Soil Remediation Standards - Nov 2013 revised
http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

5) Alternative Soil Remediation Standard, Section 4.3.1 and Attachment F

Table 2

Detected Soil Analytes and Comparison to USEPA Regional Screening Levels

TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	P57-A1		P57-C5		PAR-57-SS-01	PAR-57-SS-02	PAR-57-SS-03
Sample ID					P57-SS-A1-1.0-1.5	P57-SS-A1-1.5-2.0	P57-SS-C5-1.0-1.5	P57-SS-C5-1.5-2.0	FTMM-57-SS01-0.5-1.0	FTMM-57-SS02-1.3-1.8	FTMM-57-SS03-0.5-1.0
Sample Date					2/1/2010	2/1/2010	2/1/2010	2/1/2010	9/18/2015	9/18/2015	9/18/2015
Volatile Organic Compounds (mg/kg)											
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)											
2-Methylnaphthalene	24	300	0.019	-	1.45	< 0.54	< 0.57	< 0.54	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	< 0.55	< 0.54	< 0.57	< 0.54	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	< 0.55	< 0.54	< 0.57	< 0.54	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	< 0.55	< 0.54	< 0.57	< 0.54	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	0.72	< 0.54	< 0.57	< 0.54	NA	NA	NA
Benzo(a)pyrene	0.11	2.1	0.029	-	0.77	< 0.54	< 0.57	< 0.54	NA	NA	NA
Benzo(b)fluoranthene	1.1	21	0.3	-	1.54	< 0.54	< 0.57	< 0.54	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	0.43 J	< 0.54	< 0.57	< 0.54	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	0.55 J	< 0.54	< 0.57	< 0.54	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	0.95	< 0.54	< 0.57	< 0.54	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	< 0.55	< 0.54	< 0.57	< 0.54	NA	NA	NA
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	1.16	< 0.54	< 0.57	< 0.54	NA	NA	NA
Fluorene	240	3,000	0.54	-	< 0.55	< 0.54	< 0.57	< 0.54	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	0.39 J	< 0.54	< 0.57	< 0.54	NA	NA	NA
Naphthalene	3.8	17	0.00054	-	0.99	< 0.54	< 0.57	< 0.54	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	0.9	< 0.54	< 0.57	0.49 J	NA	NA	NA
Pyrene	180	2,300	1.3	-	1.37	< 0.54	< 0.57	0.83	NA	NA	NA
TIC SVOCs (mg/kg)											
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	83.6 J	59.77 J	41.69 J	116.7 J	NA	NA	NA
PCBs (mg/kg)											
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	< 0.022 UJ	< 0.025 UJ	< 0.022 UJ
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	< 0.02 UJ	< 0.022 UJ	< 0.02 UJ
Inorganics (mg/kg)											
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	89.7	77.3	87.8
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-04			PAR-57-SS-05	PAR-57-SS-06	PAR-57-SS-07	PAR-57-SS-08
Sample ID					FTMM-57-SS04-1.0-1.5	FTMM-57-SS04-2.0-2.5	FTMM-57-SS04-3.0-3.5	FTMM-57-SS05-0.5-1.0	FTMM-57-SS06-0.5-1.0	FTMM-57-SS07-0.5-1.0	FTMM-57-SS08-0.9-1.4
Sample Date					9/18/2015	9/18/2015	9/18/2015	9/18/2015	9/18/2015	9/18/2015	9/21/2015
Volatile Organic Compounds (mg/kg)											
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)											
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.11	2.1	0.029	-	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.1	21	0.3	-	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	NA	NA	NA	NA	NA	NA	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)											
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)											
Aroclor-1254	0.12	0.97	0.002	-	0.35 J	0.25	8.8	< 0.13 UJ	< 0.13 UJ	< 0.13 UJ	< 0.023 UJ
Aroclor-1260	0.24	0.99	0.0055	-	0.28 J	< 0.039	< 2.2	< 0.11 UJ	< 0.12 UJ	< 0.11 UJ	< 0.021 UJ
Inorganics (mg/kg)											
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	78.1	87.3	77.5	78.9	77.5	77.7	82.3
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identi fied.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-09			PAR-57-SS-10		
Sample ID					FTMM-57-SS09-0.5-1.0	FTMM-57-SS09-2.0-2.5	FTMM-57-SS09-5.5-6.0	FTMM-57-SS10-0.0-0.5	FTMM-57-SS10-3.0-3.5	FTMM-57-SS10-7.0-7.5
Sample Date					10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015
Volatile Organic Compounds (mg/kg)										
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)										
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	0.77 J	0.0023 J	10	0.27	0.0053 J	< 0.0044
Benzo(a)pyrene	0.11	2.1	0.029	-	0.88	0.0031 J	8	0.27	0.0049 J	< 0.0044
Benzo(b)fluoranthene	1.1	21	0.3	-	1.2 J	0.0039 J	11	0.39	0.0058 J	< 0.0044
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	0.35 J	< 0.0038	3.3	0.12	0.0031 J	< 0.0044
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	0.29 J	< 0.0038	1.8	0.075	< 0.0044	< 0.0044
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	0.57 J	< 0.0038	4.5	0.2	0.0031 J	< 0.0044
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)										
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids										
Percent Solids (percent)	NLE	NLE	NLE	-	91.4	86	91.4	89.3	75.1	75.1
Wet Chemistry - Solids										
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identi fied.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-11				PAR-57-SS-12			
Sample ID					FTMM-57-SS11-0.0-0.5	FTMM-57-SS111-3.0-3.5	FTMM-57-SS11-3.0-3.5	FTMM-57-SS11-7.0-7.5	FTMM-57-SS112-0.0-0.5	FTMM-57-SS12-0.0-0.5	FTMM-57-SS12-3.0-3.5	FTMM-57-SS12-7.0-7.5
Sample Date					10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015
Volatile Organic Compounds (mg/kg)												
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)												
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	0.25 J	0.015	0.01	0.0035 J	0.24 J	4.7 J	0.043	0.026
Benzo(a)pyrene	0.11	2.1	0.029	-	0.21 J	0.015	0.012	0.0039 J	0.26 J	3.7 J	0.039	0.02
Benzo(b)fluoranthene	1.1	21	0.3	-	0.27 J	0.019	0.016	0.0048 J	0.37 J	4.5 J	0.054	0.026
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	0.11 J	0.0042 J	0.005 J	< 0.0043	0.11 J	2 J	0.024	0.011
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	0.056 J	< 0.0038	< 0.0038	< 0.0043	0.046 J	0.85 J	0.01	< 0.0039
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	0.14 J	0.011	0.005 J	0.0026 J	0.16 J	2.3 J	0.023	0.0093
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)												
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)												
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)												
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids												
Percent Solids (percent)	NLE	NLE	NLE	-	92.1	87.8	86.2	76.2	94.5	88.9	93.5	85.6
Wet Chemistry - Solids												
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

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- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

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- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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5) Criteria action level source document and web address.

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http://www.epa.gov/region9/superfund/prg/

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http://www.epa.gov/region9/superfund/prg/

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-13			PAR-57-SS-14		
Sample ID					FTMM-57-SS13-0.0-0.5	FTMM-57-SS13-3.0-3.5	FTMM-57-SS13-6.5-7.0	FTMM-57-SS14-0.0-0.5	FTMM-57-SS14-3.0-3.5	FTMM-57-SS14-5.0-5.5
Sample Date					10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015
Volatile Organic Compounds (mg/kg)										
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)										
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	0.98	< 0.0039	< 0.0041	1.2	0.035	< 0.0037
Benzo(a)pyrene	0.11	2.1	0.029	-	0.89	< 0.0039	< 0.0041	0.97	0.035	< 0.0037
Benzo(b)fluoranthene	1.1	21	0.3	-	1.2	< 0.0039	< 0.0041	1.4	0.041	< 0.0037
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	0.31	< 0.0039	< 0.0041	0.48	0.014	< 0.0037
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	0.17	< 0.0039	< 0.0041	0.19	0.012	< 0.0037
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	0.52	< 0.0039	< 0.0041	0.51	0.023	< 0.0037
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)										
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids										
Percent Solids (percent)	NLE	NLE	NLE	-	88.3	85.6	80.7	88	91.3	90.6
Wet Chemistry - Solids										
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-15			PAR-57-SS-16		
Sample ID					FTMM-57-SS15-0.0-0.5	FTMM-57-SS15-3.0-3.5	FTMM-57-SS15-5.5-6.0	FTMM-57-SS16-0.0-0.5	FTMM-57-SS16-1.5-2.0	FTMM-57-SS16-6.0-6.5
Sample Date					10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015
Volatile Organic Compounds (mg/kg)										
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)										
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	0.066	< 0.0039	0.034	0.81	0.2	< 0.0039
Benzo(a)pyrene	0.11	2.1	0.029	-	0.077	< 0.0039	0.031	0.66	0.22	< 0.0039
Benzo(b)fluoranthene	1.1	21	0.3	-	0.092	< 0.0039	0.038	1.1	0.39	< 0.0039
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	0.019	< 0.0039	0.016	0.28	< 0.035	< 0.0039
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	0.021	< 0.0039	< 0.0036	< 0.038	< 0.035	< 0.0039
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	0.047	< 0.0039	0.023	0.44	< 0.035	< 0.0039
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)										
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)										
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)										
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids										
Percent Solids (percent)	NLE	NLE	NLE	-	90.2	84.9	92.4	87.4	93.3	84.5
Wet Chemistry - Solids										
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identi fied.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-17			PAR-57-SS-18		PAR-57-SS-19	
Sample ID					FTMM-57-SS17-0.0-0.5	FTMM-57-SS17-3.0-3.5	FTMM-57-SS17-5.5-6.0	FTMM-57-SS18-0.0-0.5	FTMM-57-SS18-5.0-5.5	FTMM-57-SS19-0.0-0.5	FTMM-57-SS19-5.5-6.0
Sample Date					10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015	10/1/2015
Volatile Organic Compounds (mg/kg)											
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)											
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	4.3	< 0.004	0.0027 J	3.7	0.037	< 0.18	< 0.0045
Benzo(a)pyrene	0.11	2.1	0.029	-	4.8	< 0.004	0.0023 J	2.3	0.035	< 0.18	< 0.0045
Benzo(b)fluoranthene	1.1	21	0.3	-	6.1	< 0.004	< 0.0038	3.8	0.049	< 0.18	< 0.0045
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	2.2	< 0.004	0.0046 J	1.1	0.013	< 0.18	< 0.0045
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	1.2	< 0.004	< 0.0038	0.4	0.0068 J	< 0.18	< 0.0045
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	2.5	< 0.004	< 0.0038	1.1	0.025	< 0.18	< 0.0045
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)											
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)											
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)											
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	96.6	82.8	87.5	88.3	87.7	93.8	73.7
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

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3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

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U = non-detect, i.e. not detected at or above this value.

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E (or ER) = Estimated result.

D = Results from dilution of sample.

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- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

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n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identi fied.

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- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

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- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-20			PAR-57-SS-21		PAR-57-SS-22	
Sample ID					FTMM-57-SS20-0.0-0.5	FTMM-57-SS20-3.0-3.5	FTMM-57-SS20-5.0-5.5	FTMM-57-SS21-0.0-0.5	FTMM-57-SS21-3.0-3.5	FTMM-57-SS22-0.0-0.5	FTMM-57-SS22-3.0-3.5
Sample Date					10/1/2015	10/1/2015	10/1/2015	10/2/2015	10/2/2015	10/2/2015	10/2/2015
Volatile Organic Compounds (mg/kg)											
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)											
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	0.27	0.023	0.51	7.8	0.15	0.32	0.033
Benzo(a)pyrene	0.11	2.1	0.029	-	0.3	0.013	0.27	8.2	0.15	0.39	0.035
Benzo(b)fluoranthene	1.1	21	0.3	-	0.44	0.02	0.4	11	0.2	0.53	0.048
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	0.12	0.013	0.17	3.2	0.061	0.17	0.015
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	0.079	< 0.0039	< 0.039	2.3	0.039	0.1	0.0086
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	0.2	0.011	0.21	6	0.098	0.38	0.025
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)											
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)											
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)											
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	84	85.5	83.7	96.3	87.6	90.1	92.8
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identi fied.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-23		PAR-57-SS-24	PAR-57-SS-25	P57-A1			P57-A1-A	P57-A1-B	P57-A1-C
Sample ID	Sample Date				FTMM-57-SS23-0.0-0.5	FTMM-57-SS23-3.0-3.5	FTMM-57-SS24-0.0-0.5	FTMM-57-SS25-0.0-0.5	P57-A1-A	P57-A1-B	P57-A1-C	P57-SS-A1-A-6.5-7.0	P57-SS-A1-B-6.5-7.0	P57-SS-A1-C-8.0-8.5
					10/2/2015	10/2/2015	10/2/2015	10/2/2015	12/11/2007	12/11/2007	12/11/2007	11/22/2010	11/22/2010	11/22/2010
Volatile Organic Compounds (mg/kg)														
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	< 0.26	0.4	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	< 0.26	< 0.33	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	< 0.26	< 0.33	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	< 0.26	< 0.33	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	< 0.78	< 0.99	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	< 0.26	< 0.33	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	< 0.26	< 0.33	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)														
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	1.4	NA	< 1.3	< 0.62	< 0.62	< 0.65
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	1.2	NA	< 1.3	< 0.62	< 0.62	< 0.65
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	0.76 J	NA	< 1.3	< 0.62	< 0.62	< 0.65
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	5.6	NA	< 1.3	< 0.62	< 0.62	< 0.65
Benzo(a)anthracene	1.1	21	0.011	-	0.21	0.06	0.1	0.0076	9.5 JD	NA	< 1.3	< 0.62	< 0.62	< 0.65
Benzo(a)pyrene	0.11	2.1	0.029	-	0.28	0.059	0.1	0.0076	9.9	NA	< 1.3	< 0.62	< 0.62	< 0.65
Benzo(b)fluoranthene	1.1	21	0.3	-	0.4	0.085	0.16	0.0087	9.9 JD	NA	< 1.3	< 0.62	< 0.62	< 0.65
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	3.4	NA	< 1.3	< 0.62	< 0.62	< 0.65
Benzo(k)fluoranthene	11	210	2.9	-	0.12	0.037	0.061	0.0018 J	7	NA	< 1.3	< 0.62	< 0.62	< 0.65
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	< 1.1	NA	0.08 J	< 0.62	< 0.62	< 0.65
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	< 1.1	NA	< 1.3	< 0.62	< 0.62	< 0.65
Chrysene	110	2,100	9	-	NA	NA	NA	NA	10 JD	NA	< 1.3	< 0.62	< 0.62	< 0.65
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	0.07	0.014	0.022	< 0.0036	NA	NA	NA	< 0.62	< 0.62	< 0.65
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	1.8	NA	< 1.3	< 0.62	< 0.62	< 0.65
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	0.21 J	NA	0.99 J	< 0.62	< 0.62	< 0.65
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	25 D	NA	0.058 J	< 0.62	< 0.62	< 0.65
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	2.2	NA	< 1.3	< 0.62	< 0.62	< 0.65
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	0.24	0.037	0.072	0.0047 J	3.2	NA	< 1.3	< 0.62	< 0.62	< 0.65
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	0.88 J	NA	< 1.3	< 0.62	< 0.62	< 0.65
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	19 D	NA	< 1.3	< 0.62	< 0.62	< 0.65
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	22 D	NA	0.05 J	< 0.62	< 0.62	< 0.65
TIC SVOCs (mg/kg)														
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	97.4 J	114 J	91 J
PCBs (mg/kg)														
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)														
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	17.8	NA	9.11	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	0.769	NA	0.926	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	0.325	NA	0.221	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	1.98	NA	0.526	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	15.9	NA	0.525	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	< 0.1	NA	< 0.119	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	7.56	NA	4.39	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	42.5	NA	< 41.667	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	45.7	NA	60.5	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	39.1	NA	46.9	NA	NA	NA
Wet Chemistry - Solids														
Percent Solids (percent)	NLE	NLE	NLE	-	88.5	87.5	79.8	92.6	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids														
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

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- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	P57-A1-D	P57-A1-E	P57-A2			P57-A3			P57-A4			P57-A5		
Sample ID					P57-SS-A1-D-6.0-6.5	P57-SS-A1-E-5.5-6.0	P57-A2-A	P57-A2-B	P57-A2-C	P57-A3-A	P57-A3-B	P57-A3-C	P57-A4-A	P57-A4-B	P57-A4-C	P57-A5-A	P57-A5-B	P57-A5-C
Sample Date					11/22/2010	11/22/2010	12/8/2007	12/8/2007	12/8/2007	12/11/2007	12/11/2007	12/11/2007	12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007	12/11/2007
Volatile Organic Compounds (mg/kg)																		
Acetone	6,100	67,000	0.29	-	NA	NA	NA	< 0.24	< 0.32	NA	0.42	0.3	NA	0.043 J	0.45	NA	0.34	0.42
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	0.017 J	< 0.32	NA	< 0.26	< 0.25	NA	< 0.33	< 0.29	NA	< 0.25	< 0.28
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	0.023 J	< 0.32	NA	< 0.26	< 0.25	NA	< 0.33	< 0.29	NA	< 0.25	< 0.28
Toluene	490	4,700	0.076	-	NA	NA	NA	0.077 J	< 0.32	NA	< 0.26	< 0.25	NA	0.069 J	< 0.29	NA	< 0.25	< 0.28
Total Xylenes	58	250	0.019	-	NA	NA	NA	0.35 J	< 0.95	NA	< 0.78	< 0.75	NA	< 1	< 0.87	NA	< 0.76	< 0.84
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	< 0.24	< 0.32	NA	< 0.26	< 0.25	NA	< 0.33	< 0.29	NA	0.069 J	< 0.28
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	< 0.24	< 0.32	NA	< 0.26	< 0.25	NA	< 0.33	< 0.29	NA	< 0.25	< 0.28
Semivolatile Organic Compounds (mg/kg)																		
2-Methylnaphthalene	24	300	0.019	-	< 0.63	NA U	0.075 J	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Acenaphthene	360	4,500	0.55	-	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	0.085 J	NA	< 1.2
Acenaphthylene	NLE	NLE	NLE	-	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	0.077 J	NA	< 1.1	0.061 J	NA	< 1.2
Anthracene	1,800	23,000	5.8	-	< 0.63	NA U	0.055 J	NA	< 1.3	< 1.2	NA	< 1.1	0.16 J	NA	< 1.1	0.18 J	NA	< 1.2
Benzo(a)anthracene	1.1	21	0.011	-	< 0.63	NA U	0.22 J	NA	< 1.3	0.1 J	NA	< 1.1	0.31 J	NA	< 1.1	0.34 J	NA	< 1.2
Benzo(a)pyrene	0.11	2.1	0.029	-	< 0.63	NA U	0.21 J	NA	< 1.3	< 1.2	NA	< 1.1	0.35 J	NA	< 1.1	< 1.1	NA	< 1.2
Benzo(b)fluoranthene	1.1	21	0.3	-	< 0.63	NA U	0.33 J	NA	< 1.3	< 1.2	NA	< 1.1	0.47 J	NA	< 1.1	0.52 J	NA	< 1.2
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Benzo(k)fluoranthene	11	210	2.9	-	< 0.63	NA U	0.11 J	NA	< 1.3	< 1.2	NA	< 1.1	0.16 J	NA	< 1.1	0.21 J	NA	< 1.2
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	< 0.63	NA U	0.099 J	NA	0.052 J	< 1.2	NA	0.086 J	0.15 J	NA	< 1.1	3.2	NA	0.067 J
Butyl benzyl phthalate	290	1,200	0.24	-	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Chrysene	110	2,100	9	-	< 0.63	NA U	0.27 J	NA	< 1.3	0.13 J	NA	< 1.1	0.39 J	NA	< 1.1	0.43 J	NA	< 1.2
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	< 0.63	NA U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7.3	100	0.015	-	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	0.032 J	NA	< 1.1	0.061 J	NA	< 1.2
Di-n-butylphthalate	630	8,200	0.23	-	< 0.63	NA U	< 2.7	NA	< 1.8	0.82 J	NA	1.5	< 0.49	NA	< 1.4	1.3	NA	0.3 J
Fluoranthene	240	3,000	8.9	-	< 0.63	NA U	0.42 J	NA	< 1.3	0.28 J	NA	< 1.1	0.68 J	NA	< 1.1	0.9 J	NA	0.077 J
Fluorene	240	3,000	0.54	-	< 0.63	NA U	< 1.2	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	< 0.63	NA U	0.082 J	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Naphthalene	3.8	17	0.00054	-	< 0.63	NA U	0.051 J	NA	< 1.3	< 1.2	NA	< 1.1	< 1.1	NA	< 1.1	< 1.1	NA	< 1.2
Phenanthrene	NLE	NLE	NLE	-	< 0.63	NA U	0.2 J	NA	< 1.3	0.14 J	NA	< 1.1	0.51 J	NA	0.041 J	0.66 J	NA	0.057 J
Pyrene	180	2,300	1.3	-	< 0.63	NA U	0.41 J	NA	< 1.3	0.3 J	NA	< 1.1	0.82 J	NA	0.034 J	1.1 J	NA	0.074 J
TIC SVOCs (mg/kg)																		
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	110 J	99 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																		
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)																		
Arsenic	0.68	3	0.0015	22.9	NA	NA	7.39	NA	11.4	12.4	NA	2.73	6.16	NA	8.12	6.05	NA	6.04
Beryllium	16	230	1.9	2	NA	NA	0.882	NA	1.54	1.35	NA	0.271	0.527	NA	1.61	0.52	NA	1.02
Cadmium	7.1	98	0.069	ND	NA	NA	0.384	NA	0.311	0.426	NA	0.112	0.468	NA	0.497	0.425	NA	0.203
Cobalt	2.3	35	0.027	2.5	NA	NA	3.48	NA	0.832	1.79	NA	< 0.338	8.52	NA	1.3	4.8	NA	< 0.347
Lead	400	800	NLE	19.5	NA	NA	22.8	NA	3.88	11.2	NA	3.01	21	NA	< 0.351	29.3	NA	3.05
Mercury	2.3	35	0.0033	ND	NA	NA	< 0.11	NA	< 0.122	< 0.116	NA	< 0.099	< 0.109	NA	< 0.109	< 0.113	NA	< 0.101
Nickel	150	2,200	2.6	8.4	NA	NA	10.4	NA	50.3	14.6	NA	2.76	17.6	NA	44.1	11.5	NA	5.57
Sodium	NLE	NLE	NLE	51.6	NA	NA	< 38.48	NA	< 43.926	< 42.214	NA	< 38.483	904	NA	< 37.586	434	NA	< 39.424
Vanadium	39	580	8.6	94.1	NA	NA	49.9	NA	86.1	77.6	NA	18.1	60.4	NA	70.2	43.3	NA	40.9
Zinc	2,300	35,000	37	81.4	NA	NA	61.7	NA	72.6	70.2	NA	36.5	65	NA	165	74.4	NA	80.4
Wet Chemistry - Solids																		
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids																		
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concentration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	P57-A6			P57-A7			P57-A8		
Sample ID					P57-A6-A	P57-A6-B	P57-A6-C	P57-A7-A	P57-A7-B	P57-A7-C	P57-A8-A	P57-A8-B	P57-A8-C
Sample Date					12/10/2007	12/10/2007	12/10/2007	12/11/2007	12/11/2007	12/11/2007	12/10/2007	12/10/2007	12/10/2007
Volatile Organic Compounds (mg/kg)													
Acetone	6,100	67,000	0.29	-	NA	0.4	0.38	NA	0.61	0.34	NA	0.39	0.56
Benzene	1.2	5.1	0.00023	-	NA	< 0.27	< 0.26	NA	< 0.27	< 0.28	NA	< 0.26	< 0.27
Ethyl benzene	5.8	25	0.0017	-	NA	< 0.27	< 0.26	NA	< 0.27	< 0.28	NA	< 0.26	< 0.27
Toluene	490	4,700	0.076	-	NA	< 0.27	< 0.26	NA	< 0.27	0.024 J	NA	< 0.26	< 0.27
Total Xylenes	58	250	0.019	-	NA	< 0.81	< 0.78	NA	< 0.82	0.021 J	NA	< 0.77	< 0.81
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	< 0.27	< 0.26	NA	< 0.27	< 0.28	NA	< 0.26	< 0.27
Vinyl acetate	91	380	0.0087	-	NA	< 0.27	< 0.26	NA	< 0.27	< 0.28	NA	0.21 J	< 0.27
Semivolatile Organic Compounds (mg/kg)													
2-Methylnaphthalene	24	300	0.019	-	0.091 J	NA	< 1.1	< 1.1	NA	< 1.1	< 4.4	NA	< 1.1
Acenaphthene	360	4,500	0.55	-	0.07 J	NA	< 1.1	< 1.1	NA	< 1.1	< 4.4	NA	< 1.1
Acenaphthylene	NLE	NLE	NLE	-	0.059 J	NA	< 1.1	< 1.1	NA	0.069 J	0.17 J	NA	< 1.1
Anthracene	1,800	23,000	5.8	-	0.15 J	NA	0.03 J	0.058 J	NA	0.039 J	0.52 J	NA	< 1.1
Benzo(a)anthracene	1.1	21	0.011	-	0.35 J	NA	0.054 J	0.24 J	NA	0.1 J	1.1 J	NA	< 1.1
Benzo(a)pyrene	0.11	2.1	0.029	-	< 1.1	NA	< 1.1	0.24 J	NA	0.088 J	< 4.4	NA	< 1.1
Benzo(b)fluoranthene	1.1	21	0.3	-	< 1.1	NA	0.069 J	0.43 J	NA	0.072 J	< 4.4	NA	< 1.1
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1.1	NA	< 1.1	< 1.1	NA	< 1.1	< 4.4	NA	< 1.1
Benzo(k)fluoranthene	11	210	2.9	-	< 1.1	NA	0.039 J	0.1 J	NA	0.077 J	< 4.4	NA	< 1.1
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	< 1.1	NA	0.044 J	1.9	NA	0.73 J	1.2 J	NA	0.11 J
Butyl benzyl phthalate	290	1,200	0.24	-	< 1.1	NA	< 1.1	< 1.1	NA	< 1.1	< 4.4	NA	< 1.1
Chrysene	110	2,100	9	-	0.47 J	NA	0.077 J	0.32 J	NA	0.14 J	1.5 J	NA	< 1.1
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7.3	100	0.015	-	< 1.1	NA	< 1.1	< 1.1	NA	< 1.1	0.17 J	NA	< 1.1
Di-n-butylphthalate	630	8,200	0.23	-	< 1.1	NA	< 0.38	1.5	NA	0.81 J	< 2.3	NA	< 3.8
Fluoranthene	240	3,000	8.9	-	0.85 J	NA	0.13 J	0.58 J	NA	0.14 J	2.4 J	NA	0.055 J
Fluorene	240	3,000	0.54	-	0.073 J	NA	< 1.1	< 1.1	NA	< 1.1	0.28 J	NA	< 1.1
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	< 1.1	NA	< 1.1	< 1.1	NA	< 1.1	< 4.4	NA	< 1.1
Naphthalene	3.8	17	0.00054	-	0.043 J	NA	< 1.1	< 1.1	NA	< 1.1	0.16 J	NA	< 1.1
Phenanthrene	NLE	NLE	NLE	-	0.67 J	NA	0.1 J	0.27 J	NA	0.05 J	2.1 J	NA	0.031 J
Pyrene	180	2,300	1.3	-	1.3	NA	0.15 J	0.55 J	NA	0.21 J	4 J	NA	0.051 J
TIC SVOCs (mg/kg)													
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)													
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)													
Arsenic	0.68	3	0.0015	22.9	4.58	NA	13.2	8.01	NA	4.58	2.84	NA	8.05
Beryllium	16	230	1.9	2	0.346	NA	1.23	0.529	NA	0.524	0.259	NA	0.556
Cadmium	7.1	98	0.069	ND	0.435	NA	0.359	0.329	NA	0.185	0.247	NA	0.0843
Cobalt	2.3	35	0.027	2.5	5.53	NA	1.7	1.32	NA	0.876	6.6	NA	< 0.337
Lead	400	800	NLE	19.5	15.7	NA	7.57	29.5	NA	7	9.78	NA	1.65
Mercury	2.3	35	0.0033	ND	< 0.099	NA	< 0.108	< 0.106	NA	< 0.101	< 0.104	NA	< 0.109
Nickel	150	2,200	2.6	8.4	20	NA	10.3	6.45	NA	4.43	14.5	NA	2.27
Sodium	NLE	NLE	NLE	51.6	539	NA	< 41.362	< 36.479	NA	< 38.989	429	NA	< 38.358
Vanadium	39	580	8.6	94.1	46.8	NA	63.9	37.5	NA	29.7	70.6	NA	40.6
Zinc	2,300	35,000	37	81.4	70.4	NA	58.2	76.4	NA	35.8	50.4	NA	14.4
Wet Chemistry - Solids													
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids													
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concentration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

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J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

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- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

5) Criteria action level source document and web address.

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- <http://www.epa.gov/region9/superfund/prg/>

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

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- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	P57-A9				P57-B3			P57-B4		
Sample ID					P57-A9-A	P57-A9-B	P57-A9-C	P57-A9-C DUP	P57-B3-A	P57-B3-B	P57-B3-C	P57-B4-A	P57-B4-B	P57-B4-C
Sample Date					12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/8/2007	12/8/2007	12/8/2007	12/8/2007	12/8/2007	12/8/2007
Volatile Organic Compounds (mg/kg)														
Acetone	6,100	67,000	0.29	-	NA	0.51	0.49	0.73	NA	< 0.26	< 0.33	NA	< 0.26	< 0.28
Benzene	1.2	5.1	0.00023	-	NA	< 0.26	< 0.25	< 0.29	NA	< 0.26	< 0.33	NA	< 0.26	< 0.28
Ethyl benzene	5.8	25	0.0017	-	NA	< 0.26	< 0.25	< 0.29	NA	< 0.26	< 0.33	NA	< 0.26	< 0.28
Toluene	490	4,700	0.076	-	NA	< 0.26	< 0.25	< 0.29	NA	< 0.26	< 0.33	NA	< 0.26	< 0.28
Total Xylenes	58	250	0.019	-	NA	< 0.79	< 0.75	< 0.87	NA	< 0.79	< 0.98	NA	< 0.79	< 0.84
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	< 0.26	< 0.25	< 0.29	NA	< 0.26	< 0.33	NA	< 0.26	< 0.28
Vinyl acetate	91	380	0.0087	-	NA	< 0.26	< 0.25	0.24 J	NA	< 0.26	< 0.33	NA	< 0.26	< 0.28
Semivolatile Organic Compounds (mg/kg)														
2-Methylnaphthalene	24	300	0.019	-	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2	0.08 J	NA	< 1.1
Acenaphthene	360	4,500	0.55	-	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2	0.041 J	NA	< 1.1
Acenaphthylene	NLE	NLE	NLE	-	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2	0.071 J	NA	< 1.1
Anthracene	1,800	23,000	5.8	-	< 1.2	NA	< 1.1	0.11 J	0.049 J	NA	< 1.2	0.2 J	NA	< 1.1
Benzo(a)anthracene	1.1	21	0.011	-	0.089 J	NA	< 1.1	0.23 J	0.21 J	NA	< 1.2	0.6 J	NA	< 1.1
Benzo(a)pyrene	0.11	2.1	0.029	-	0.08 J	NA	< 1.1	0.15 J	< 1.1	NA	< 1.2	0.48 J	NA	< 1.1
Benzo(b)fluoranthene	1.1	21	0.3	-	0.13 J	NA	< 1.1	0.22 J	< 1.1	NA	< 1.2	0.79 J	NA	< 1.1
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1.2	NA	< 1.1	0.1 J	< 1.1	NA	< 1.2	< 1.1	NA	< 1.1
Benzo(k)fluoranthene	11	210	2.9	-	< 1.2	NA	< 1.1	0.093 J	< 1.1	NA	< 1.2	0.36 J	NA	< 1.1
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	0.18 J	NA	0.1 J	0.062 J	0.15 J	NA	< 1.2	0.13 J	NA	< 1.1
Butyl benzyl phthalate	290	1,200	0.24	-	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2	< 1.1	NA	< 1.1
Chrysene	110	2,100	9	-	0.12 J	NA	< 1.1	0.25 J	0.25 J	NA	< 1.2	0.69 J	NA	< 1.1
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7.3	100	0.015	-	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2	0.064 J	NA	< 1.1
Di-n-butylphthalate	630	8,200	0.23	-	0.34 J	NA	1.1 J	1 J	< 1.6	NA	< 0.63	< 1.7	NA	< 0.61
Fluoranthene	240	3,000	8.9	-	0.17 J	NA	< 1.1	0.68 J	0.32 J	NA	< 1.2	1.4	NA	< 1.1
Fluorene	240	3,000	0.54	-	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2	0.038 J	NA	< 1.1
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2	0.15 J	NA	< 1.1
Naphthalene	3.8	17	0.00054	-	< 1.2	NA	< 1.1	< 1.2	< 1.1	NA	< 1.2	0.065 J	NA	< 1.1
Phenanthrene	NLE	NLE	NLE	-	0.1 J	NA	< 1.1	0.51 J	0.18 J	NA	< 1.2	0.75 J	NA	< 1.1
Pyrene	180	2,300	1.3	-	0.2 J	NA	< 1.1	0.58 J	0.5 J	NA	< 1.2	1.6	NA	< 1.1
TIC SVOCs (mg/kg)														
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)														
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)														
Arsenic	0.68	3	0.0015	22.9	10.3	NA	2.42	1.7	7.58	NA	11	5.89	NA	6.21
Beryllium	16	230	1.9	2	0.933	NA	0.462	0.475	1.25	NA	0.917	0.517	NA	0.516
Cadmium	7.1	98	0.069	ND	0.306	NA	0.135	0.126	0.193	NA	0.261	0.318	NA	0.414
Cobalt	2.3	35	0.027	2.5	1.42	NA	< 0.332	< 0.333	1.94	NA	2.47	2.82	NA	2.93
Lead	400	800	NLE	19.5	28.9	NA	40.7	38	7.69	NA	7.04	20.3	NA	51.4
Mercury	2.3	35	0.0033	ND	< 0.109	NA	< 0.106	< 0.114	< 0.11	NA	< 0.116	< 0.102	NA	< 0.102
Nickel	150	2,200	2.6	8.4	6.97	NA	2.35	2.49	6.29	NA	11	8.92	NA	8.99
Sodium	NLE	NLE	NLE	51.6	< 38.584	NA	< 37.822	< 37.867	< 37.752	NA	< 43.828	< 36.969	NA	< 39.984
Vanadium	39	580	8.6	94.1	47	NA	19.4	18.2	51.2	NA	62.7	40.8	NA	40
Zinc	2,300	35,000	37	81.4	57.8	NA	29.4	28.8	72.5	NA	57.9	50.5	NA	84.8
Wet Chemistry - Solids														
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids														
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

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- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

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- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	P57-B5				P57-C3				P57-C4			P57-C5		
Sample ID					P57-B5-A	P57-B5-B	P57-B5-C	P57-B5-C DUP	P57-C3-A	P57-C3-B	P57-C3-C	P57-C3-C DUP	P57-C4-A	P57-C4-B	P57-C4-C	P57-C5-A	P57-C5-B	P57-C5-C
Sample Date					12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/8/2007	12/8/2007	12/8/2007	12/8/2007	12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/10/2007	12/10/2007
Volatile Organic Compounds (mg/kg)																		
Acetone	6,100	67,000	0.29	-	NA	< 0.27	< 0.35	0.28 J	NA	< 0.27	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	0.28 J	< 0.32
Benzene	1.2	5.1	0.00023	-	NA	< 0.27	< 0.35	< 0.3	NA	< 0.27	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	< 0.3	< 0.32
Ethyl benzene	5.8	25	0.0017	-	NA	< 0.27	< 0.35	< 0.3	NA	0.011 J	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	< 0.3	< 0.32
Toluene	490	4,700	0.076	-	NA	< 0.27	< 0.35	< 0.3	NA	< 0.27	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	< 0.3	< 0.32
Total Xylenes	58	250	0.019	-	NA	< 0.81	< 1.06	< 0.9	NA	< 0.81	< 0.78	< 0.78	NA	< 0.92	< 0.81	NA	< 0.99	< 0.96
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	< 0.27	< 0.35	< 0.3	NA	< 0.27	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	< 0.3	< 0.32
Vinyl acetate	91	380	0.0087	-	NA	< 0.27	< 0.35	< 0.3	NA	< 0.27	< 0.26	< 0.26	NA	< 0.31	< 0.27	NA	< 0.3	< 0.32
Semivolatile Organic Compounds (mg/kg)																		
2-Methylnaphthalene	24	300	0.019	-	< 1.1	NA	< 1.2	< 1.2	0.075 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	< 1.1	NA	< 1.1
Acenaphthene	360	4,500	0.55	-	0.066 J	NA	< 1.2	< 1.2	0.54 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	0.078 J	NA	< 1.1
Acenaphthylene	NLE	NLE	NLE	-	0.039 J	NA	< 1.2	< 1.2	0.097 J	NA	< 1.1	< 1.1	0.19 J	NA	< 1.1	0.1 J	NA	< 1.1
Anthracene	1,800	23,000	5.8	-	0.2 J	NA	< 1.2	< 1.2	1.2	NA	< 1.1	< 1.1	0.13 J	NA	< 1.1	0.43 J	NA	< 1.1
Benzo(a)anthracene	1.1	21	0.011	-	0.46 J	NA	< 1.2	< 1.2	2.9	NA	0.1 J	< 1.1	0.42 J	NA	< 1.1	1.2	NA	< 1.1
Benzo(a)pyrene	0.11	2.1	0.029	-	< 1.1	NA	< 1.2	< 1.2	2	NA	0.081 J	< 1.1	0.47 J	NA	< 1.1	0.95 J	NA	< 1.1
Benzo(b)fluoranthene	1.1	21	0.3	-	0.52 J	NA	< 1.2	< 1.2	3.1	NA	0.11 J	< 1.1	0.65 J	NA	< 1.1	1.5	NA	< 1.1
Benzo(ghi)perylene	NLE	NLE	NLE	-	< 1.1	NA	< 1.2	< 1.2	0.73 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	< 1.1	NA	< 1.1
Benzo(k)fluoranthene	11	210	2.9	-	0.35 J	NA	< 1.2	< 1.2	1.9	NA	0.059 J	< 1.1	0.29 J	NA	< 1.1	0.48 J	NA	< 1.1
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	0.3 J	NA	< 1.2	0.087 J	0.22 J	NA	0.092 J	0.09 J	0.2 J	NA	< 1.1	1.1	NA	< 1.1
Butyl benzyl phthalate	290	1,200	0.24	-	0.13 J	NA	< 1.2	< 1.2	< 1.1	NA	< 1.1	< 1.1	< 1	NA	< 1.1	< 1.1	NA	< 1.1
Chrysene	110	2,100	9	-	0.51 J	NA	< 1.2	< 1.2	3	NA	0.12 J	< 1.1	0.52 J	NA	< 1.1	1.3	NA	< 1.1
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7.3	100	0.015	-	0.057 J	NA	< 1.2	< 1.2	0.26 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	0.058 J	NA	< 1.1
Di-n-butylphthalate	630	8,200	0.23	-	< 0.76	NA	< 0.91	< 2.7	< 2	NA	< 2.4	< 0.41	< 0.77	NA	< 0.57	< 0.64	NA	< 0.58
Fluoranthene	240	3,000	8.9	-	0.99 J	NA	< 1.2	< 1.2	7.5	NA	0.12 J	0.041 J	0.64 J	NA	< 1.1	2.6	NA	< 1.1
Fluorene	240	3,000	0.54	-	< 1.1	NA	< 1.2	< 1.2	0.38 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	0.11 J	NA	< 1.1
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	< 1.1	NA	< 1.2	< 1.2	0.69 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	0.33 J	NA	< 1.1
Naphthalene	3.8	17	0.00054	-	< 1.1	NA	< 1.2	< 1.2	0.12 J	NA	< 1.1	< 1.1	< 1	NA	< 1.1	< 1.1	NA	< 1.1
Phenanthrene	NLE	NLE	NLE	-	1 J	NA	< 1.2	< 1.2	4.7	NA	0.033 J	< 1.1	0.26 J	NA	< 1.1	1.4	NA	< 1.1
Pyrene	180	2,300	1.3	-	1.6	NA	< 1.2	< 1.2	9.4	NA	0.16 J	0.041 J	1.2	NA	< 1.1	3.6	NA	< 1.1
TIC SVOCs (mg/kg)																		
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)																		
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)																		
Arsenic	0.68	3	0.0015	22.9	5.03	NA	7.71	9.35	2.36	NA	4.98	3.65	5.4	NA	11.4	4.64	NA	2.04
Beryllium	16	230	1.9	2	0.54	NA	1.06	1.18	0.494	NA	0.637	0.508	0.59	NA	1.33	0.615	NA	0.326
Cadmium	7.1	98	0.069	ND	0.289	NA	0.317	0.534	0.163	NA	0.194	0.0962	0.362	NA	0.196	0.319	NA	0.0535
Cobalt	2.3	35	0.027	2.5	5.07	NA	1.64	1.58	0.756	NA	1.11	1.43	8.68	NA	1.42	3.13	NA	< 0.326
Lead	400	800	NLE	19.5	15	NA	3.03	2.82	4.81	NA	5.1	4.66	30.1	NA	1.2	51.6	NA	1.4
Mercury	2.3	35	0.0033	ND	< 0.107	NA	< 0.114	< 0.11	0.16	NA	< 0.1	< 0.101	< 0.098	NA	< 0.096	< 0.099	NA	< 0.099
Nickel	150	2,200	2.6	8.4	9.44	NA	8.71	8.98	5.59	NA	5.79	7.16	14.1	NA	5.97	9.05	NA	3.63
Sodium	NLE	NLE	NLE	51.6	48.6	NA	< 42.72	< 39.581	< 40.694	NA	< 35.244	< 37.691	688	NA	< 36.431	< 40.061	NA	< 37.124
Vanadium	39	580	8.6	94.1	59.1	NA	85.3	91.4	30.9	NA	46.7	36.6	65.3	NA	60	65.3	NA	24.5
Zinc	2,300	35,000	37	81.4	46.2	NA	62.6	67	25.2	NA	39.8	43.6	53.6	NA	61.5	58.2	NA	28
Wet Chemistry - Solids																		
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids																		
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concentration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-26				PAR-57-SS-27			PAR-57-SS-28	
Sample ID					PAR-57-SB-126-3.5-4	PAR-57-SB-26-0.5-1	PAR-57-SB-26-3.5-4	PAR-57-SB-26-7.5-8	PAR-57-SB-27-0-0.5	PAR-57-SB-27-3.5-4	PAR-57-SB-27-7.5-8	PAR-57-SB-28-0.5-1	PAR-57-SB-28-3.5-4
Sample Date					4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/22/2016
Volatile Organic Compounds (mg/kg)													
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)													
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	0.0035 J	0.12	< 0.004	0.0041 J	0.12	< 0.0039	< 0.0039	0.4	0.003 J
Benzo(a)pyrene	0.11	2.1	0.029	-	< 0.0042	0.12	< 0.004	0.0021 J	0.17	< 0.0039	< 0.0039	0.32	< 0.0042
Benzo(b)fluoranthene	1.1	21	0.3	-	< 0.0042	0.15	< 0.004	0.0031 J	0.2	< 0.0039	< 0.0039	0.28	< 0.0042
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	< 0.0042	0.024	< 0.004	< 0.0039	0.027	< 0.0039	< 0.0039	0.057	< 0.0042
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	< 0.0042	0.099	< 0.004	< 0.0039	0.12	< 0.0039	< 0.0039	0.16	< 0.0042
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)													
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)													
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)													
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids													
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids													
Percent Solids (percent)	NLE	NLE	NLE	-	78.5	82.6	83.2	83.5	92.6	83.8	85.3	87.4	77.9

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

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- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

<http://www.epa.gov/region9/superfund/prg/>

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

Fort Monmouth, BRAC 05 Facility
Contract Number W912DY-09-D-0062, Task Order 0012

April 2018
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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-30			PAR-57-SS-31			PAR-57-SS-32	
Sample ID					PAR-57-SB-30-0.5-1	PAR-57-SB-30-3.5-4	PAR-57-SB-30-7.5-8	PAR-57-SB-31-0.5-1	PAR-57-SB-31-3.5-4	PAR-57-SB-31-7.5-8	PAR-57-SB-32-0.5-1	PAR-57-SB-32-3.5-4
Sample Date					4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/22/2016
Volatile Organic Compounds (mg/kg)												
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)												
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	0.3	< 0.004	0.0027	0.035	0.052	0.0026 J	0.25	0.0035 J
Benzo(a)pyrene	0.11	2.1	0.029	-	0.32	< 0.004	0.003	0.061	0.07	< 0.0039	0.27	< 0.0038
Benzo(b)fluoranthene	1.1	21	0.3	-	0.43	< 0.004	< 0.0036	0.053	0.062	< 0.0039	0.34	< 0.0038
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	0.057	< 0.004	< 0.0036	0.014	0.018	< 0.0039	0.035	< 0.0038
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	0.19	< 0.004	0.0033	0.047	0.056	< 0.0039	0.21	< 0.0038
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)												
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)												
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA	NA	NA
Inorganics (mg/kg)												
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids												
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids												
Percent Solids (percent)	NLE	NLE	NLE	-	96	83.1	90.8	86.4	93.3	84.6	82.2	86.1

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identi fied.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-33		PAR-57-SS-34		PAR-57-SS-35		PAR-57-SS-36
Sample ID					PAR-57-SB-33-0.5-1	PAR-57-SB-33-3.5-4	PAR-57-SB-34-0.5-1	PAR-57-SB-34-3.5-4	PAR-57-SB-35-0.5-1	PAR-57-SB-35-3.5-4	PAR-57-SB-36-4.5-5
Sample Date					4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/22/2016	4/21/2016
Volatile Organic Compounds (mg/kg)											
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)											
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	0.009	< 0.0042	0.0033 J	< 0.0038	< 0.0038	< 0.004	NA
Benzo(a)pyrene	0.11	2.1	0.029	-	0.013	< 0.0042	< 0.0041	< 0.0038	< 0.0038	< 0.004	NA
Benzo(b)fluoranthene	1.1	21	0.3	-	0.014	< 0.0042	< 0.0041	< 0.0038	< 0.0038	< 0.004	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	0.0026 J	< 0.0042	< 0.0041	< 0.0038	< 0.0038	< 0.004	NA
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	0.0098	< 0.0042	< 0.0041	< 0.0038	< 0.0038	< 0.004	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)											
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)											
Aroclor-1254	0.12	0.97	0.002	-	NA	NA	NA	NA	NA	NA	< 0.024
Aroclor-1260	0.24	0.99	0.0055	-	NA	NA	NA	NA	NA	NA	< 0.022
Inorganics (mg/kg)											
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	88.3	79.2	80.6	85.8	86.2	83.2	80.8

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identi fied.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-37				PAR-57-SS-38		
Sample ID					PAR-57-SB-137-2.5-3	PAR-57-SB-37-0.5-1	PAR-57-SB-37-2.5-3	PAR-57-SB-37-4.5-5	PAR-57-SB-38-0.5-1	PAR-57-SB-38-2.5-3	PAR-57-SB-38-4.5-5
Sample Date					4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016
Volatile Organic Compounds (mg/kg)											
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)											
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.11	2.1	0.029	-	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.1	21	0.3	-	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	NA	NA	NA	NA	NA	NA	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)											
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)											
Aroclor-1254	0.12	0.97	0.002	-	< 0.022	< 0.021	< 0.022	< 0.023	< 0.022	< 0.023	< 0.024
Aroclor-1260	0.24	0.99	0.0055	-	< 0.02	0.057	< 0.019	< 0.021	0.048	< 0.02	< 0.022
Inorganics (mg/kg)											
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	89	91	89.9	84.5	88.8	85.1	80.2

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

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[blank] = detect, i.e. detected chemical result value.

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R = Rejected, data validation rejected the results.

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U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

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- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identi fied.

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- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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5) Criteria action level source document and web address.

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- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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TABLE 2
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO USEPA RISK
BASED SCREENING LEVELS
PARCEL 57
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	Weston 1995 Background (Main Post)	PAR-57-SS-39			PAR-57-SS-40			
Sample ID					PAR-57-SB-39-0.5-1	PAR-57-SB-39-2.5-3	PAR-57-SB-39-4.5-5	PAR-57-SB-140-2.5-3	PAR-57-SB-40-0.5-1	PAR-57-SB-40-2.5-3	PAR-57-SB-40-4.5-5
Sample Date					4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016	4/21/2016
Volatile Organic Compounds (mg/kg)											
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA
Total Xylenes	58	250	0.019	-	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA
Vinyl acetate	91	380	0.0087	-	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)											
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.11	2.1	0.029	-	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.1	21	0.3	-	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	NA	NA	NA	NA	NA	NA	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)											
Total TIC, Semi-Volatile	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)											
Aroclor-1254	0.12	0.97	0.002	-	< 0.022	< 0.022	< 0.023	< 0.022	< 0.024	< 0.032	< 0.024
Aroclor-1260	0.24	0.99	0.0055	-	< 0.02	< 0.02	< 0.021	< 0.02	0.068	< 0.029	< 0.022
Inorganics (mg/kg)											
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA	NA
Lead	400	800	NLE	19.5	NA	NA	NA	NA	NA	NA	NA
Mercury	2.3	35	0.0033	ND	NA	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Wet Chemistry - Solids											
Percent Solids (percent)	NLE	NLE	NLE	-	89.2	87.1	82.9	86.5	80.9	89.4	80

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) **BOLD** = chemical detected

3) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.

[blank] = detect, i.e. detected chemical result value.

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

U = non-detect, i.e. not detected at or above this value.

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Residential Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).

- Cell Style values represent a result that is above the Weston 1995 Background (Main Post).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.

- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.

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5) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Region 9 Regional Screening Levels (HQ=0.1)

http://www.epa.gov/region9/superfund/prg/

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

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APPENDIX A

PUBLIC NOTICE



*U.S. Army Corps of Engineers, NY
District, ACTION MEMORANDUM FOR
PARCEL 57*

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 an *Action Memorandum* for Parcel 57 (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 *Action Memorandum* is to document the U.S. Army's decision to undertake the Time Critical Removal Action (TCRA) at the Site where polynuclear aromatic hydrocarbon (PAH) contaminated soil was identified. This *Action Memorandum* describes the TCRA selected for the Site.

The *Action Memorandum*, 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 *Action Memorandum* 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 *Action Memorandum*. Written comments will be accepted during a 30-day comment period starting Wednesday September 12, 2018 and ending Thursday October 11, 2018. All comments must be postmarked by Thursday October 11 and mailed to the address below (or emailed by Thursday October 11 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