



**New Jersey Department of Environmental Protection**  
Site Remediation Program

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

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

Document:

- "Parcel 57 Round 3 Letter Work Plan Addendum, Fort Monmouth, New Jersey" (28 August 2017)

**PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION**

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

Representative First Name: William

Representative Last Name: Colvin

Title: Fort Monmouth BRAC Environmental Coordinator (BEC)

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

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

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name/Title: William R. Colvin, PMP, CHMM, PG  
BRAC Environmental Coordinator

28 August 2017

Completed form should be sent to:

Mr. Ashish Joshi  
New Jersey Department of Environmental Protection  
Division of Remediation Management & Response  
Bureau of Northern Field Operations  
7 Ridgedale Avenue (2<sup>nd</sup> Floor)  
Cedar Knolls, New Jersey 07927-1112



## DEPARTMENT OF THE ARMY

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

28 August 2017

Mr. Ashish Joshi  
New Jersey Department of Environmental Protection  
Division of Remediation Management & Response  
Northern Bureau of Field Operations  
7 Ridgedale Avenue (2<sup>nd</sup> Floor)  
Cedar Knolls, New Jersey 07927-1112

**SUBJECT: Parcel 57 Round 3 Letter Work Plan Addendum  
Fort Monmouth, New Jersey  
PI G000000032**

Dear Mr. Joshi:

The purpose of the subject addendum is to supplement previous work performed by the Army at Parcel 57 including: soil sampling in 2010; groundwater sampling in 2011; and soil and groundwater sampling in 2015 (Round 1) and 2016 (Round 2). The Round 3 investigation is planned to determine the horizontal and vertical extent of polynuclear aromatic hydrocarbons (PAHs) that exceed the New Jersey Department of Environmental Protection (NJDEP) Residential Direct Contact Soil Remediation Standard (RDCSRS).

The location of Parcel 57 is shown on **Figure 1**. Background on Parcel 57 (history, current and projected land use, descriptions of investigations performed prior to 2015, and historical data) are provided in **Reference 1**. A summary of the soil and groundwater samples collected in Round 1 and 2, and previous sampling conducted by the Army in 2010 and 2011, is provided in **Table 1**; all sample locations are shown on **Figure 2**. Boring logs for Round 2 are provided in **Attachment 1**. Round 1 boring logs were provided in the Work Plan for Round 2 (**Reference 2**).

In addition to the nine soil samples collected from seven borings analyzed for PAHs in 2010, a total of 71 samples (including three field duplicates) from 27 soil borings were analyzed for PAHs in 2015 and 2016. Target PAH analytes included benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd) pyrene. The 2010, 2015, and 2016 PAH analytical results were compared to NJDEP criteria (**Table 2**). Locations with exceedances of the NJDEP RDCSRS are shown on **Figure 3**.

Concentrations of the following PAHs exceeded their current NJDEP RDCSRS in at least one of the 80 soil samples collected in 2010, 2015, and 2016: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. All PAH exceedances of the RDCSRS were found in samples collected between 0.0 to 5.5 feet below the base of the asphalt pavement and underlying granular base material.

As shown on **Figure 3**, the vertical extent of PAHs has been determined with the exception of the northern portion of Parcel 57, where one PAH concentration (0.27 mg/kg for benzo[a]anthracene at PAR-57-SS-20-5.0-5.5) slightly exceeded the current NJDEP RDCSRS (0.2 mg/kg). Therefore, additional soil sampling for PAHs is warranted for vertical delineation. **Figure 3** also shows that the horizontal extent of PAHs has not been determined to the northeast where PAHs in soil extend into adjoining Parcel 66 and to the parcel boundary to the southwest where PAHs in soil extend into adjoining Parcel 55. Therefore, additional soil sampling with analysis for PAHs is planned to be performed for horizontal delineation.

## Field Investigation Plan

Proposed Round 3 sampling is summarized in **Table 3**. As shown on **Figure 4**, a total of nine soil borings are planned to delineate the horizontal and vertical extent of PAHs in soils. The field team will note fill material as well as the presence of materials other than soil (e.g., coal, asphalt, debris, fill material, pavement thickness, etc.).

Each soil boring will have a shallow soil sample collected from 0 to 0.5 feet below ground surface (ft bgs), or below the bottom of concrete, asphalt, or base course material if present. Soil samples will also be collected from 3.5 to 4.0 ft bgs, and 7.5 to 8.0 ft bgs, which is a similar approach as that for the Round 1 and Round 2 investigations. Total boring depth and specific sample intervals may be adjusted in the field to better characterize the soils within and below fill material, if encountered. Soil samples will be analyzed for the five PAHs that exceeded RDCSRSs in previous samples (benzo[a]anthracene, benzo[a]pyrene, benzo[b]fluoranthene, dibenz[a,h]anthracene, and indeno[1,2,3-cd]pyrene only) by Method 8270 using selective ion monitoring (SIM) mode.

PAH concentrations in samples collected in Rounds 1 and 2 at borings PAR-57-SS-20, PAR-57-SS-23, and PAR-57-SS-32 exceeded the NJDEP RDCSRS but the horizontal extent at these locations was not determined (**Figure 3**). Vertical delineation was achieved at each of these borings except PAR-57-SS-20; therefore, additional sampling for PAHs is proposed at 7.5 to 8.0 feet below ground surface at new boring PAR-57-SB-45 (**Figure 4**). To delineate horizontally, primary samples (to be analyzed first) from borings PAR-57-SB-46, PAR-57-SB-48, and PAR-57-SB-51 will be sampled at the locations shown on **Figure 4**, with samples to be collected: a) at the surface (0 to 0.5 ft below the concrete/asphalt and subbase); b) at 3.5 to 4.0 ft bgs; and c) at 7.5 to 8.0 ft bgs. Soil samples for potential contingency analyses will be collected at the same time as primary samples from step-out borings PAR-57-SB-47, PAR-57-SB-49, PAR-57-SB-50, PAR-57-SB-52, and PAR-57-SB-53. These contingency samples will be extracted and held by the laboratory until the results of the primary samples are reviewed. If the primary sample results exceed RDCSRS, then the contingency samples will also be analyzed for PAHs to provide horizontal and vertical delineation, as needed. A summary of the proposed sampling and analyses is presented in **Table 3**.

The results of the 2010, 2015, 2016, and 2017 investigations will be presented in a Remedial Investigation (RI) Report for Parcel 57.

Thank you for reviewing this work plan addendum. We look forward to your comments and approval prior to implementing this plan (currently scheduled to begin on 2 October 2017). Our

technical Point of Contact is Kent Friesen who you may contact directly at 732-383-7201; [kent.friesen@parsons.com](mailto:kent.friesen@parsons.com). I can be reached at 732-380-7064; [william.r.colvin18.civ@mail.mil](mailto:william.r.colvin18.civ@mail.mil).

Sincerely,



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

Attachments:

- Figure 1 – Parcel 57 Location
- Figure 2 – Site Layout and Sampling Locations
- Figure 3 – Comparison of 2010, 2015, and 2016 soil results for PAHs to NJDEP Direct Contact Standards
- Figure 4 – Proposed Round 3 Sampling Locations for Parcel 57
- Table 1 – ECP Phase II Site Investigation Sample and Analytical Summary
- Table 2 – Detected Soil Sampling Results - Comparison to New Jersey Direct Contact Criteria
- Table 3 – Proposed Round 3 Sampling Summary for Parcel 57
- Attachment 1 – Parcel 57 Round 2 Boring Logs

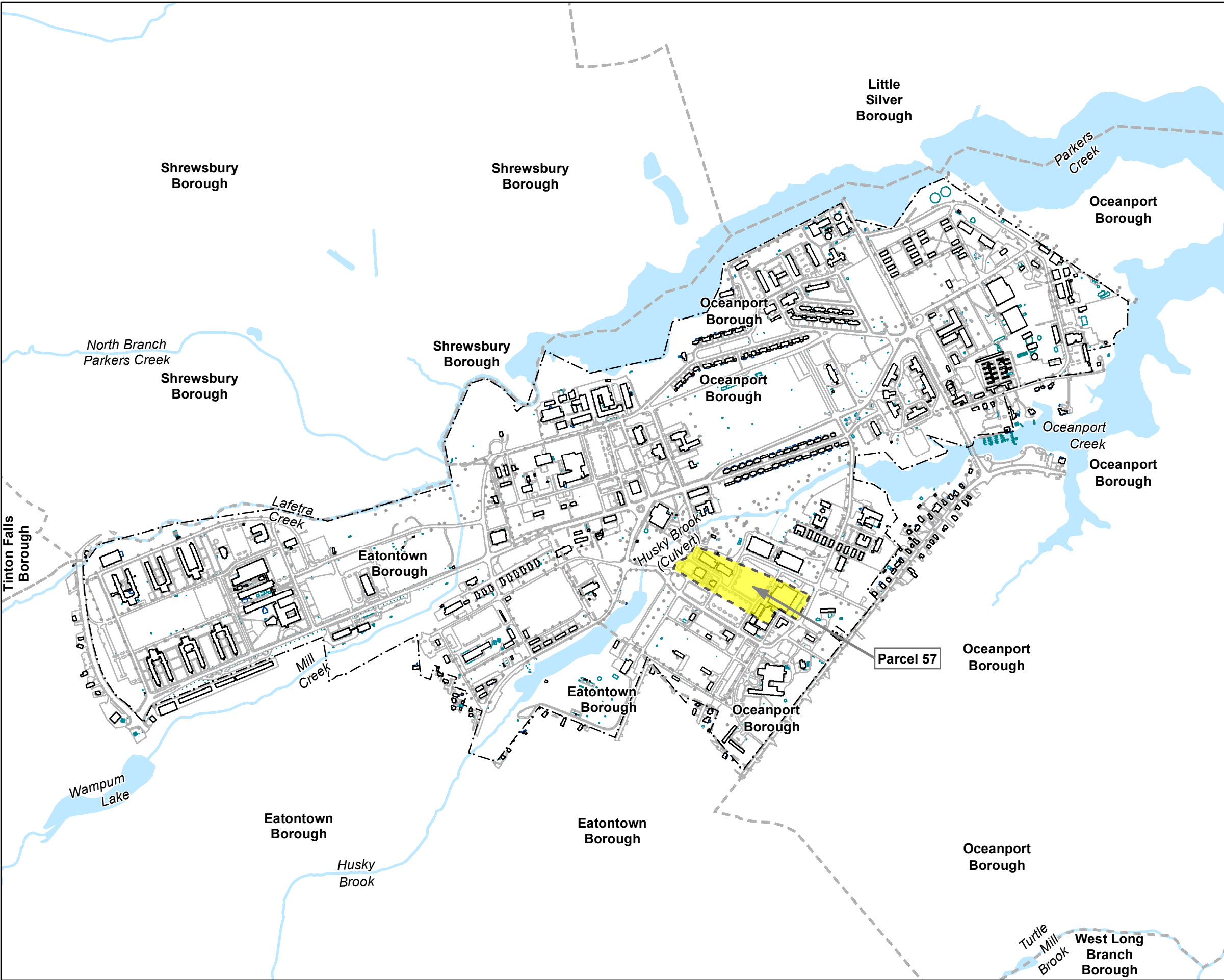
cc: Ashish Joshi, NJDEP (2 hard copies and email)  
William Colvin (1 hard copy and e-mail)  
Joseph Pearson, Calibre (e-mail)  
James Moore, USACE (e-mail)  
Jim Kelly, USACE (e-mail)  
Cris Grill, Parsons (e-mail)

**References Cited**

1. Parsons, 2015. *Environmental Condition of Property Supplemental Phase II Site Investigation Work Plan for Parcels 28, 38, 39, 49, 57, 61, and 69, Fort Monmouth, Oceanport, Monmouth County, New Jersey*. Final Revision 1. November.
2. Parsons, 2016. *ECP Parcel 57 Round 2 Work Plan Addendum, Fort Monmouth, Oceanport, Monmouth County, New Jersey*. Final. March.
3. New Jersey Department of Environmental Protection (NJDEP), 2005. *NJDEP Field Sampling Procedures Manual*. August.

**Figure 1**  
**Parcel 57 Location**

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**LEGEND:**

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



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

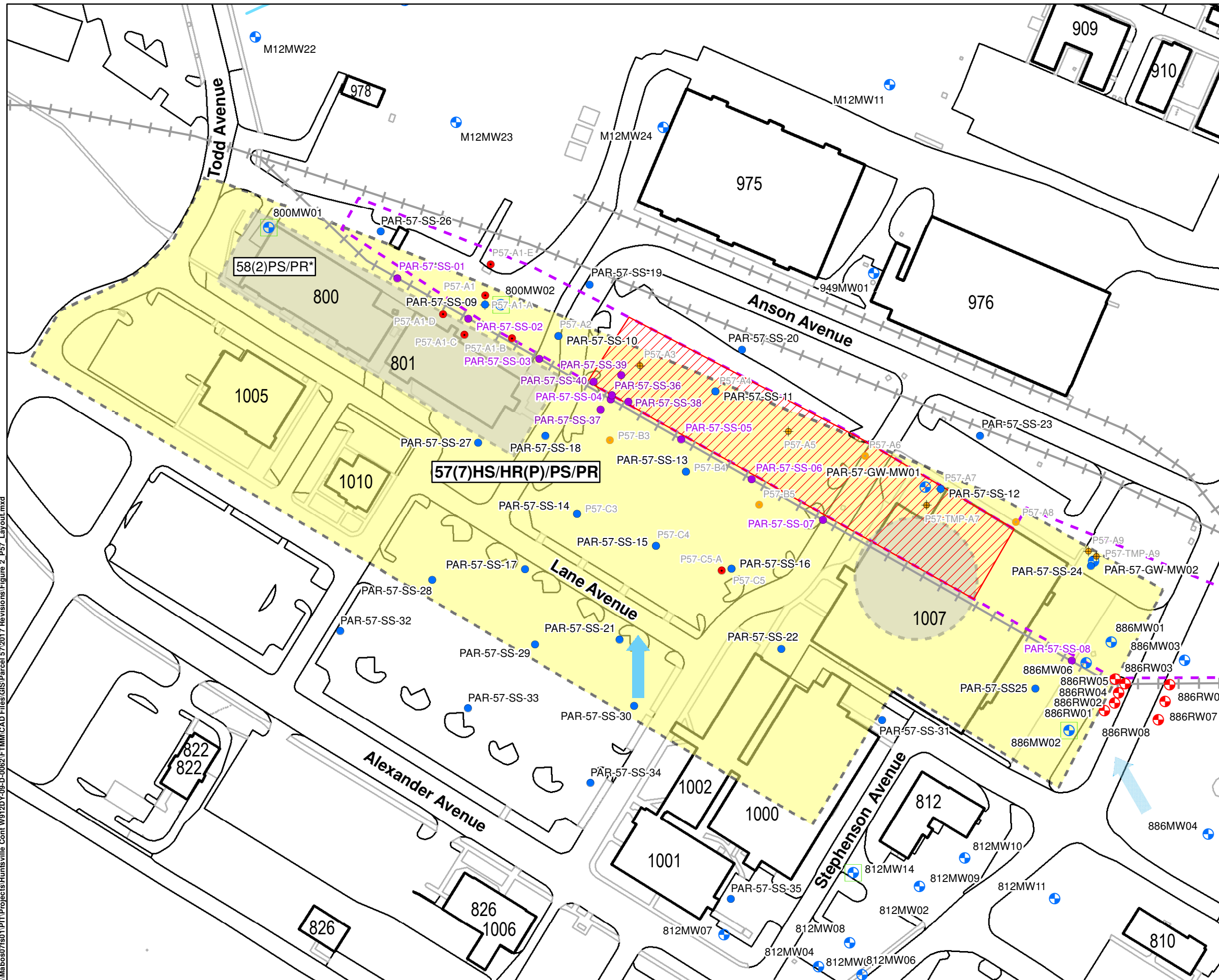
**Fort Monmouth  
New Jersey**

**PARCEL 57 LOCATION**

|                                        |                                       |
|----------------------------------------|---------------------------------------|
| CREATED BY:<br><b>RR</b>               | REVIEWED BY:<br><b>RF</b>             |
| DATE:<br><b>MAY. 2017</b>              | FIGURE NUMBER:<br><b>FIGURE 1</b>     |
| PROJECT NUMBER:<br><b>748810-01000</b> | FILE:<br><b>Figure1_MP_Layout.mxd</b> |

**Figure 2**  
**Site Layout and Sampling Locations**

\\Mabos07\so1\PT\Projects\Huntsville Cont W\912DY\09-D-0052\FTMM\CAD Files\GIS\Parcel 57\2017 Revisions\Figure 2\_P57\_Layout.mxd



**LEGEND:**

- Soil Boring for PCB Analysis
- Soil Boring for PAH Analysis
- Historical Soil Sample Location (2007)
- Historical Soil Sample and Temporary 2" Monitoring Well Location (2007)
- Soil Sample Location (2010) for PAH
- Groundwater Sample for Metal Analysis
- Shallow Monitoring Well (various dates)
- Recovery Well
- Approximate Location of Former Railroad Track (based on 1962 FTMM plan figure)
- Parcel 57 Boundary
- Approximate Extent of Former Coal Storage Area
- Former Concrete Coal Storage Pad
- Generalized Groundwater Flow Direction

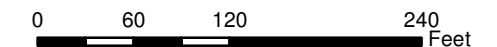
Sample locations are approximate and are subject to change based on field conditions.

**BRAC Parcel Label Definitions**

|        |                         |                                    |
|--------|-------------------------|------------------------------------|
| 8(2)PS | Contaminant Description | HS – Hazardous Substance Storage   |
|        |                         | HR – Hazardous Substance Release   |
|        |                         | PS – Petroleum Storage             |
|        |                         | PR – Petroleum Release             |
|        |                         | (P) – Possible Release or Disposal |
|        | Category Number         |                                    |
|        | Parcel Number           |                                    |



1 inch = 120 feet



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

**PARSONS**  
401 Diamond Drive NW,  
Huntsville AL

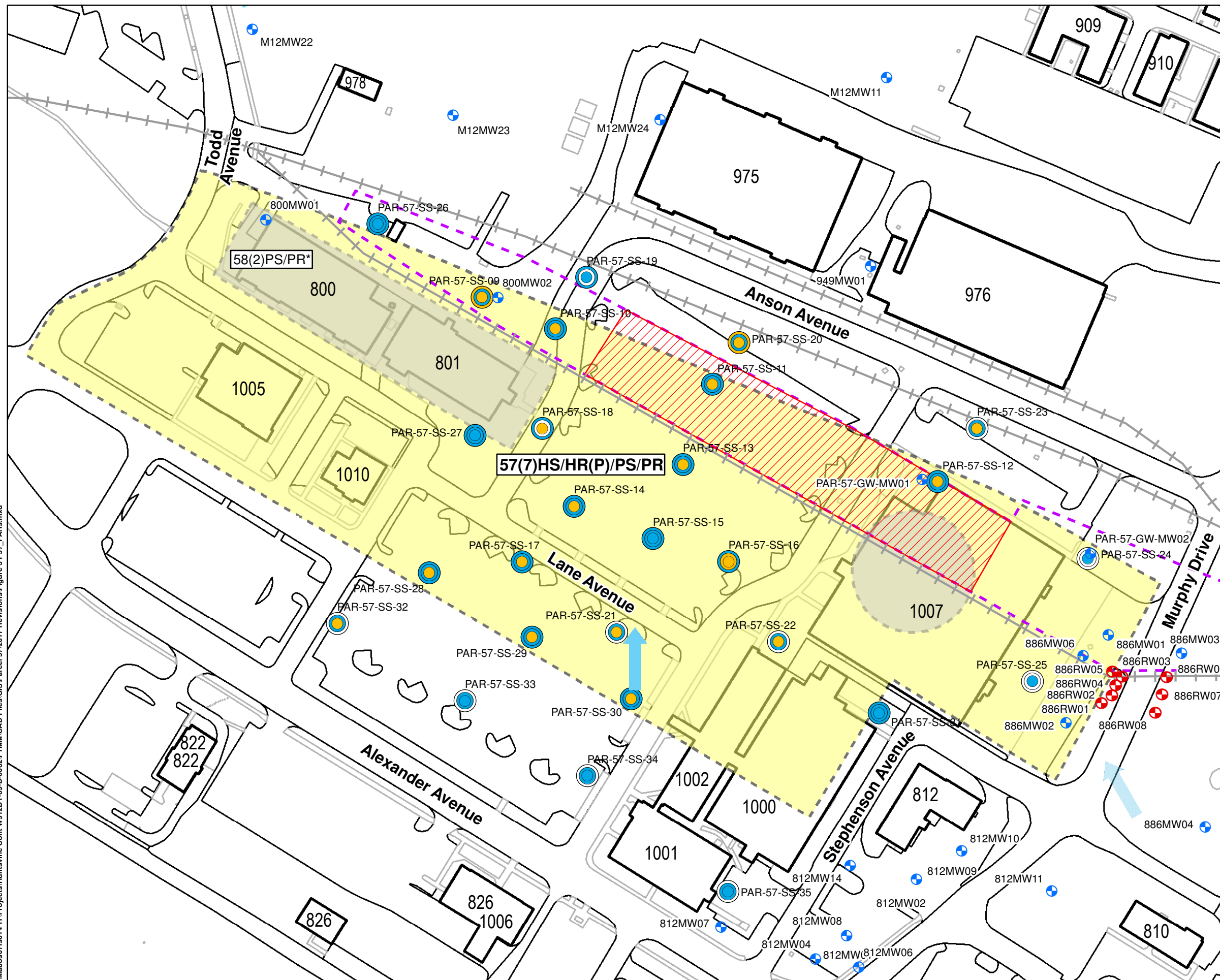
**Fort Monmouth**  
**New Jersey**

**PARCEL 57 SITE LAYOUT  
AND SAMPLING LOCATIONS**

|                                        |                                         |
|----------------------------------------|-----------------------------------------|
| CREATED BY:<br><b>RR</b>               | REVIEWED BY:<br><b>RF</b>               |
| DATE:<br><b>AUG. 2017</b>              | FIGURE NUMBER:<br><b>FIGURE 2</b>       |
| PROJECT NUMBER:<br><b>748810-06018</b> | FILE:<br><b>Figure 2_P57_Layout.mxd</b> |

**Figure 3**  
**Comparison of 2010, 2015, and 2016 soil results for PAHs to NJDEP Direct Contact Standards**

\\Mabos071601\PIIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\Parcel 57\2017 Revisions\Figure 3 P57\_PAHs.mxd



#### 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 Area
- Concrete Coal Storage Pad (removed)
- Generalized Groundwater Flow Direction
- 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)

#### NOTES:

RDCSRS = Residential Direct Contact Soil Remediation Standard

NRDCSRS = Non-Residential Direct Contact Soil Remediation Standard

bgs = Below Ground Surface

NE = No Exceedance

-- = Not Sampled

All results are in milligrams per kilogram.

#### BRAC Parcel Label Definitions

|        |                         |                                    |
|--------|-------------------------|------------------------------------|
| 8(2)PS | Contaminant Description | HS - Hazardous Substance Storage   |
|        |                         | HR - Hazardous Substance Release   |
|        |                         | PS - Petroleum Storage             |
|        |                         | PR - Petroleum Release             |
|        |                         | (P) - Possible Release or Disposal |
|        | Category Number         |                                    |
|        | Parcel Number           |                                    |

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

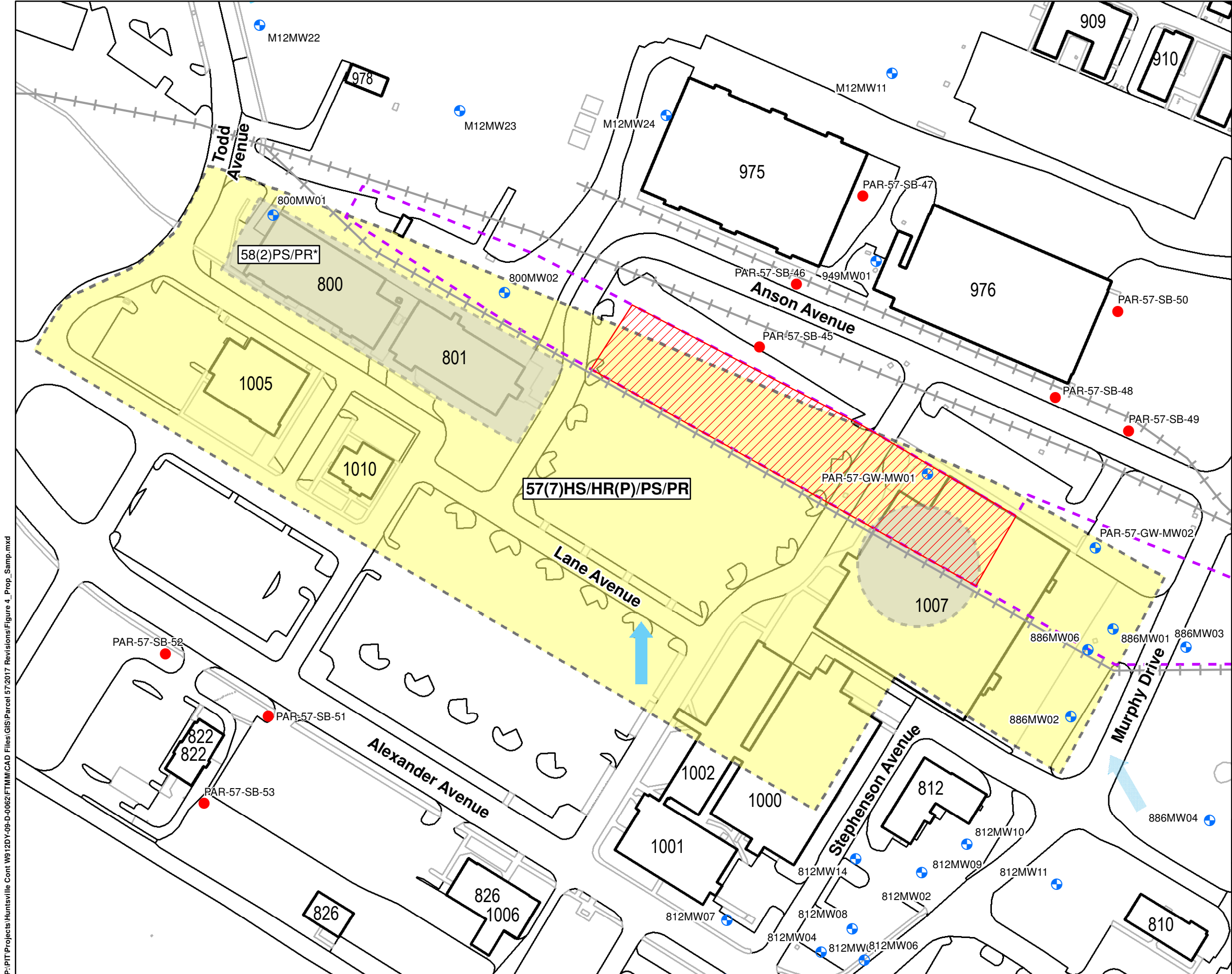
**Fort Monmouth**  
New Jersey

#### COMPARISON OF 2010, 2015, AND 2016 SOIL RESULTS FOR PAHs TO NJDEP DIRECT CONTACT STANDARDS

|                                        |                                       |
|----------------------------------------|---------------------------------------|
| CREATED BY:<br><b>RR</b>               | REVIEWED BY:<br><b>SS</b>             |
| DATE:<br><b>AUG. 2017</b>              | FIGURE NUMBER:<br><b>FIGURE 3</b>     |
| PROJECT NUMBER:<br><b>748810-06018</b> | FILE:<br><b>Figure 3 P57_PAHs.mxd</b> |

**Figure 4**  
**Proposed Round 3 Sampling Locations for Parcel 57**

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- LEGEND:**
- Proposed Samling Location
  - Shallow Monitoring Well
  - Parcel 57 Boundary
  - Approximate Location of Former Railroad Track (based on 1962 FTMM plan figure)
  - Approximate Extent of Former Coal Storage Area
  - Concrete Coal Storage Pad (removed)
  - Generalized Groundwater Flow Direction

BRAC Parcel Label Definitions

|        |                         |                                    |
|--------|-------------------------|------------------------------------|
| 8(2)PS | Contaminant Description | HS – Hazardous Substance Storage   |
|        |                         | HR – Hazardous Substance Release   |
|        |                         | PS – Petroleum Storage             |
|        |                         | PR – Petroleum Release             |
|        |                         | (P) – Possible Release or Disposal |
|        | Category Number         |                                    |
|        | Parcel Number           |                                    |

N

1 inch = 120 feet

0 60 120 240 Feet

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

|                                                              |                                        |
|--------------------------------------------------------------|----------------------------------------|
| <b>PARSONS</b><br>401 Diamond Drive NW,<br>Huntsville AL     | <b>Fort Monmouth</b><br>New Jersey     |
| <b>PROPOSED ROUND 3 SAMPLING<br/>LOCATIONS FOR PARCEL 57</b> |                                        |
| CREATED BY:<br><b>RR</b>                                     | REVIEWED BY:<br><b>JC</b>              |
| DATE:<br><b>AUG. 2017</b>                                    | FIGURE NUMBER:<br><b>FIGURE 4</b>      |
| PROJECT NUMBER:<br><b>748810-06018</b>                       | FILE:<br><b>Figure 4_Prop_Samp.mxd</b> |

**Table 1**  
**ECP Phase II Site Investigation Sample and Analytical Summary**

TABLE 1  
ECP PHASE II SITE INVESTIGATION SAMPLE AND ANALYTICAL SUMMARY  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Media                                | Type                   | Sample Identification         | Sample Type                               | Sample Date | Sample Depth Top         | Sample Depth Bottom | VO+ TICs | SVO+ TICs | Total Metals     | Dissolved Metals | PAHs             | PCBs |
|--------------------------------------|------------------------|-------------------------------|-------------------------------------------|-------------|--------------------------|---------------------|----------|-----------|------------------|------------------|------------------|------|
| 2010-2011 Sampling (U.S. Army)       |                        |                               |                                           |             |                          |                     |          |           |                  |                  |                  |      |
| Soil                                 | Geoprobe               | P57-SS-A1-1.0-1.5             | Primary Sample                            | 01-Feb-10   | 1                        | 1.5                 | --       | --        | --               | --               | X                | --   |
| Soil                                 | Geoprobe               | P57-SS-A1-1.5-2.0             | Primary Sample                            | 01-Feb-10   | 1.5                      | 2                   | --       | --        | --               | --               | X                | --   |
| Soil                                 | Geoprobe               | P57-SS-C5-1.0-1.5             | Primary Sample                            | 01-Feb-10   | 1                        | 1.5                 | --       | --        | --               | --               | X                | --   |
| Soil                                 | Geoprobe               | P57-SS-C5-1.5-2.0             | Primary Sample                            | 01-Feb-10   | 1.5                      | 2                   | --       | --        | --               | --               | X                | --   |
| Soil                                 | Geoprobe               | P57-SS-A1-A-6.5-7.0           | Primary Sample                            | 22-Nov-10   | 6.5                      | 7                   | --       | X         | --               | --               | --               | --   |
| Soil                                 | Geoprobe               | P57-SS-A1-B-6.5-7.0           | Primary Sample                            | 22-Nov-10   | 6.5                      | 7                   | --       | X         | --               | --               | --               | --   |
| Soil                                 | Geoprobe               | P57-SS-A1-C-8.0-8.5           | Primary Sample                            | 22-Nov-10   | 8                        | 8.5                 | --       | X         | --               | --               | --               | --   |
| Soil                                 | Geoprobe               | P57-SS-A1-D-6.0-6.5           | Primary Sample                            | 22-Nov-10   | 6                        | 6.5                 | --       | X         | --               | --               | --               | --   |
| Soil                                 | Geoprobe               | P57-SS-A1-E-5.5-6.0           | Primary Sample                            | 22-Nov-10   | 5.5                      | 6                   | --       | X         | --               | --               | --               | --   |
| Groundwater                          | Temporary Well         | PAR57-GW-57-TMP-A-5           | Primary Sample                            | 02-Apr-10   | NA                       | NA                  | --       | --        | X <sup>(1)</sup> | X <sup>(1)</sup> | --               | --   |
| Groundwater                          | Temporary Well         | PAR57-GW-57-TMP-A-7           | Primary Sample                            | 11-Mar-10   | NA                       | NA                  | --       | --        | X <sup>(1)</sup> | X <sup>(1)</sup> | --               | --   |
| Groundwater                          | Temporary Well         | PAR57-GW-57-TMP-A-9           | Primary Sample                            | 10-Mar-10   | NA                       | NA                  | --       | --        | X <sup>(2)</sup> | X <sup>(2)</sup> | --               | --   |
| Groundwater                          | Monitoring Well        | PAR57-GW-800MW02              | Primary Sample                            | 04-Feb-11   | 5                        | 20                  | X        | X         | X                | --               | --               | --   |
| Groundwater                          | Monitoring Well        | PAR57-GW-800MW02-Dup          | Duplicate of PAR-57-GW-800MW02            | 04-Feb-11   | 5                        | 20                  | X        | X         | X                | --               | --               | --   |
| 2015 ECP Phase II Sampling (Parsons) |                        |                               |                                           |             |                          |                     |          |           |                  |                  |                  |      |
| Soil                                 | Geoprobe               | FTMM-57-SS01-0.5-1.0          | Primary Sample                            | 18-Sep-15   | 0.5                      | 1                   | --       | --        | --               | --               | --               | X    |
| Soil                                 | Geoprobe               | FTMM-57-SS02-1.3-1.8          | Primary Sample                            | 18-Sep-15   | 1.3                      | 1.8                 | --       | --        | --               | --               | --               | X    |
| Soil                                 | Geoprobe               | FTMM-57-SS03-0.5-1.0          | Primary Sample                            | 18-Sep-15   | 0.5                      | 1                   | --       | --        | --               | --               | --               | X    |
| Soil                                 | Geoprobe               | FTMM-57-SS04-1.0-1.5          | Primary Sample                            | 18-Sep-15   | 1                        | 1.5                 | --       | --        | --               | --               | --               | X    |
| Soil                                 | Geoprobe               | FTMM-57-SS04-2.0-2.5          | Primary Sample                            | 18-Sep-15   | 2                        | 2.5                 | --       | --        | --               | --               | --               | X    |
| Soil                                 | Geoprobe               | FTMM-57-SS04-3.0-3.5          | Primary Sample                            | 18-Sep-15   | 3                        | 3.5                 | --       | --        | --               | --               | --               | X    |
| Soil                                 | Geoprobe               | FTMM-57-SS05-0.5-1.0          | Primary Sample                            | 18-Sep-15   | 0.5                      | 1                   | --       | --        | --               | --               | --               | X    |
| Soil                                 | Geoprobe               | FTMM-57-SS06-0.5-1.0          | Primary Sample                            | 18-Sep-15   | 0.5                      | 1                   | --       | --        | --               | --               | --               | X    |
| Soil                                 | Geoprobe               | FTMM-57-SS07-0.5-1.0          | Primary Sample                            | 18-Sep-15   | 0.5                      | 1                   | --       | --        | --               | --               | --               | X    |
| Soil                                 | Geoprobe               | FTMM-57-SS08-0.9-1.4          | Primary Sample                            | 21-Sep-15   | 0.9                      | 1.4                 | --       | --        | --               | --               | --               | X    |
| Soil                                 | Geoprobe               | FTMM-57-SS09-0.5-1.0          | Primary Sample                            | 01-Oct-15   | 0.5                      | 1                   | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS09-2.0-2.5          | Primary Sample                            | 01-Oct-15   | 2                        | 2.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS09-5.5-6.0          | Primary Sample                            | 01-Oct-15   | 5.5                      | 6                   | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS10-0.0-0.5          | Primary Sample                            | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS10-3.0-3.5          | Primary Sample                            | 01-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS10-7.0-7.5          | Primary Sample                            | 01-Oct-15   | 7                        | 7.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS11-0.0-0.5          | Primary Sample                            | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS111-3.0-3.5         | Duplicate of FTMM-57-SS11-3.0-3.5         | 01-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS112-0.0-0.5         | Duplicate of FTMM-57-SS12-0.0-0.5         | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS11-3.0-3.5          | Primary Sample                            | 01-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS11-7.0-7.5          | Primary Sample                            | 01-Oct-15   | 7                        | 7.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS12-0.0-0.5          | Primary Sample                            | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS12-3.0-3.5          | Primary Sample                            | 01-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS12-7.0-7.5          | Primary Sample                            | 01-Oct-15   | 7                        | 7.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS13-0.0-0.5          | Primary Sample                            | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS13-3.0-3.5          | Primary Sample                            | 01-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS13-6.5-7.0          | Primary Sample                            | 01-Oct-15   | 6.5                      | 7                   | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS14-0.0-0.5          | Primary Sample                            | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS14-3.0-3.5          | Primary Sample                            | 01-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS14-5.0-5.5          | Primary Sample                            | 01-Oct-15   | 5                        | 5.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS15-0.0-0.5          | Primary Sample                            | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS15-3.0-3.5          | Primary Sample                            | 01-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS15-5.5-6.0          | Primary Sample                            | 01-Oct-15   | 5.5                      | 6                   | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS16-0.0-0.5          | Primary Sample                            | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS16-1.5-2.0          | Primary Sample                            | 01-Oct-15   | 1.5                      | 2                   | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS16-6.0-6.5          | Primary Sample                            | 01-Oct-15   | 6                        | 6.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS17-0.0-0.5          | Primary Sample                            | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS17-3.0-3.5          | Primary Sample                            | 01-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS17-5.5-6.0          | Primary Sample                            | 01-Oct-15   | 5.5                      | 6                   | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS18-0.0-0.5          | Primary Sample                            | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS18-5.0-5.5          | Primary Sample                            | 01-Oct-15   | 5                        | 5.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS19-0.0-0.5          | Primary Sample                            | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS19-5.5-6.0          | Primary Sample                            | 01-Oct-15   | 5.5                      | 6                   | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS20-0.0-0.5          | Primary Sample                            | 01-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS20-3.0-3.5          | Primary Sample                            | 01-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS20-5.0-5.5          | Primary Sample                            | 01-Oct-15   | 5                        | 5.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS21-0.0-0.5          | Primary Sample                            | 02-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS21-3.0-3.5          | Primary Sample                            | 02-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS22-0.0-0.5          | Primary Sample                            | 02-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS22-3.0-3.5          | Primary Sample                            | 02-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS23-0.0-0.5          | Primary Sample                            | 02-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS23-3.0-3.5          | Primary Sample                            | 02-Oct-15   | 3                        | 3.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS24-0.0-0.5          | Primary Sample                            | 02-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Soil                                 | Geoprobe               | FTMM-57-SS25-0.0-0.5          | Primary Sample                            | 02-Oct-15   | 0                        | 0.5                 | --       | --        | --               | --               | X <sup>(3)</sup> | --   |
| Groundwater                          | Monitoring Well / LFPS | PAR57-GW-MW01-15.1            | Primary Sample                            | 23-Nov-15   | pump tubing set at 15.1  |                     | --       | --        | X                | --               | --               | --   |
| Groundwater                          | Monitoring Well / LFPS | PAR57-GW-MW01-15.1 DISSOLVED  | Primary Sample                            | 23-Nov-15   | pump tubing set at 15.1  |                     | --       | --        | --               | X                | --               | --   |
| Groundwater                          | Monitoring Well / LFPS | PAR57-GW-MW101-15.1           | Duplicate of PAR57-GW-MW01-15.1           | 23-Nov-15   | pump tubing set at 15.1  |                     | --       | --        | X                | --               | --               | --   |
| Groundwater                          | Monitoring Well / LFPS | PAR57-GW-MW101-15.1 DISSOLVED | Duplicate of PAR57-GW-MW01-15.1 DISSOLVED | 23-Nov-15   | pump tubing set at 15.1  |                     | --       | --        | --               | X                | --               | --   |
| Groundwater                          | Monitoring Well / LFPS | PAR57-GW-MW02-15.25           | Primary Sample                            | 24-Nov-15   | pump tubing set at 15.25 |                     | --       | --        | X                | --               | --               | --   |
| Groundwater                          | Monitoring Well / LFPS | PAR57-GW-MW02-15.25 DISSOLVED | Primary Sample                            | 24-Nov-15   | pump tubing set at 15.25 |                     | --       | --        | --               | X                | --               | --   |
| Groundwater                          | Monitoring Well / LFPS | PAR57-GW-MW02-20.25           | Primary Sample                            | 24-Nov-15   | pump tubing set at 20.25 |                     | --       | --        | X                | --               | --               | --   |
| Groundwater                          | Monitoring Well / LFPS | PAR57-GW-MW02-20.25 DISSOLVED | Primary Sample                            | 24-Nov-15   | pump tubing set at 20.25 |                     | --       | --        | --               | X                | --               | --   |
| 2016 ECP Phase II Sampling (Parsons) |                        |                               |                                           |             |                          |                     |          |           |                  |                  |                  |      |
| Soil                                 | Geoprobe               | PAR-57-SB-26-0.5-1            | Primary Sample                            | 22-Apr-16   | 0.5                      | 1                   | --       | --        | --               | --               | X <sup>(4)</sup> | --   |
| Soil                                 | Geoprobe               | PAR-57-SB-26-3.5-4            | Primary Sample                            | 22-Apr-16   | 3.5                      | 4                   | --       | --        | --               | --               | X <sup>(4)</sup> | --   |
| Soil                                 | Geoprobe               | PAR-57-SB-126-3.5-4           | Duplicate of PAR-57-SB-26-3.5-4           | 22-Apr-16   | 3.5                      | 4                   | --       | --        | --               | --               | X <sup>(4)</sup> | --   |
| Soil                                 | Geoprobe               | PAR-57-SB-26-7.5-8            | Primary Sample                            | 22-Apr-16   | 7.5                      | 8                   | --       | --        | --               | --               | X <sup>(4)</sup> | --   |
| Soil                                 | Geoprobe               | PAR-57-SB-27-0-0.5            | Primary Sample                            | 22-Apr-16   | 0.5                      | 1                   | --       | --        | --               | --               | X <sup>(4)</sup> | --   |
| Soil                                 | Geoprobe               | PAR-57-SB-27-3.5-4            | Primary Sample                            | 22-Apr-16   | 3.5                      | 4                   | --       | --        | --               | --               | X <sup>(4)</sup> | --   |
| Soil                                 | Geoprobe               | PAR-57-SB-27-7.5-8            | Primary Sample                            | 22-Apr-16   | 7.5                      | 8                   | --       | --        | --               | --               | X <sup>(4)</sup> | --   |
| Soil                                 | Geoprobe               | PAR-57-SB-28-0.5-1            | Primary Sample                            | 22-Apr-16   | 0.5                      | 1                   | --       | --        | --               | --               | X <sup>(4)</sup> | --   |
| Soil                                 | Geoprobe               | PAR-57-SB-28-3.5-4            | Primary Sample                            | 22-Apr-16   | 3.5                      | 4                   | --       | --        | --               | --               | X <sup>(4)</sup> | --   |

TABLE 1  
ECP PHASE II SITE INVESTIGATION SAMPLE AND ANALYTICAL SUMMARY  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Media       | Type                   | Sample Identification         | Sample Type                          | Sample Date | Sample Depth Top         | Sample Depth Bottom | VO+ TICs | SVO+ TICs | Total Metals | Dissolved Metals | PAHs             | PCBs             |
|-------------|------------------------|-------------------------------|--------------------------------------|-------------|--------------------------|---------------------|----------|-----------|--------------|------------------|------------------|------------------|
| Soil        | Geoprobe               | PAR-57-SB-28-7.5-8            | Primary Sample                       | 22-Apr-16   | 7.5                      | 8                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-29-0.5-1            | Primary Sample                       | 22-Apr-16   | 0.5                      | 1                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-29-3.5-4            | Primary Sample                       | 22-Apr-16   | 3.5                      | 4                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-29-7.5-8            | Primary Sample                       | 22-Apr-16   | 7.5                      | 8                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-30-0.5-1            | Primary Sample                       | 22-Apr-16   | 0.5                      | 1                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-30-3.5-4            | Primary Sample                       | 22-Apr-16   | 3.5                      | 4                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-30-7.5-8            | Primary Sample                       | 22-Apr-16   | 7.5                      | 8                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-31-0.5-1            | Primary Sample                       | 22-Apr-16   | 0.5                      | 1                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-31-3.5-4            | Primary Sample                       | 22-Apr-16   | 3.5                      | 4                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-31-7.5-8            | Primary Sample                       | 22-Apr-16   | 7.5                      | 8                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-32-0.5-1            | Primary Sample                       | 22-Apr-16   | 0.5                      | 1                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-32-3.5-4            | Primary Sample                       | 22-Apr-16   | 3.5                      | 4                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-33-0.5-1            | Primary Sample                       | 22-Apr-16   | 0.5                      | 1                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-33-3.5-4            | Primary Sample                       | 22-Apr-16   | 3.5                      | 4                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-34-0.5-1            | Primary Sample                       | 22-Apr-16   | 0.5                      | 1                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-34-3.5-4            | Primary Sample                       | 22-Apr-16   | 3.5                      | 4                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-35-0.5-1            | Primary Sample                       | 22-Apr-16   | 0.5                      | 1                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-35-3.5-4            | Primary Sample                       | 22-Apr-16   | 3.5                      | 4                   | --       | --        | --           | --               | X <sup>(4)</sup> | --               |
| Soil        | Geoprobe               | PAR-57-SB-36-4.5-5            | Primary Sample                       | 21-Apr-16   | 4.5                      | 5                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-37-0.5-1            | Primary Sample                       | 21-Apr-16   | 0.5                      | 1                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-37-2.5-3            | Primary Sample                       | 21-Apr-16   | 2.5                      | 3                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-137-2.5-3           | Duplicate of PAR-57-SB-37-2.5-3      | 21-Apr-16   | 2.5                      | 3                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-37-4.5-5            | Primary Sample                       | 21-Apr-16   | 4.5                      | 5                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-38-0.5-1            | Primary Sample                       | 21-Apr-16   | 0.5                      | 1                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-38-2.5-3            | Primary Sample                       | 21-Apr-16   | 2.5                      | 3                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-38-4.5-5            | Primary Sample                       | 21-Apr-16   | 4.5                      | 5                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-39-0.5-1            | Primary Sample                       | 21-Apr-16   | 0.5                      | 1                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-39-2.5-3            | Primary Sample                       | 21-Apr-16   | 2.5                      | 3                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-39-4.5-5            | Primary Sample                       | 21-Apr-16   | 4.5                      | 5                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-40-0.5-1            | Primary Sample                       | 21-Apr-16   | 0.5                      | 1                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-40-2.5-3            | Primary Sample                       | 21-Apr-16   | 2.5                      | 3                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-140-2.5-3           | Duplicate of PAR-57-SB-40-2.5-3      | 21-Apr-16   | 2.5                      | 3                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Soil        | Geoprobe               | PAR-57-SB-40-4.5-5            | Primary Sample                       | 21-Apr-16   | 4.5                      | 5                   | --       | --        | --           | --               | --               | X <sup>(5)</sup> |
| Groundwater | Monitoring Well / LFPS | 800MW01-10.06                 | Primary Sample                       | 23-May-16   | pump tubing set at 10.06 |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | 800MW01-10.06 DISSOLVED       | Primary Sample                       | 23-May-16   | pump tubing set at 10.06 |                     | --       | --        | --           | X                | --               | --               |
| Groundwater | Monitoring Well / LFPS | 800MW101-10.06                | Duplicate of 800MW01-10.06           | 23-May-16   | pump tubing set at 10.06 |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | 800MW101-10.06 DISSOLVED      | Duplicate of 800MW01-10.06 DISSOLVED | 23-May-16   | pump tubing set at 10.06 |                     | --       | --        | --           | X                | --               | --               |
| Groundwater | Monitoring Well / LFPS | 800MW02-6.9                   | Primary Sample                       | 23-May-16   | pump tubing set at 6.9   |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | 800MW02-6.9 DISSOLVED         | Primary Sample                       | 23-May-16   | pump tubing set at 6.9   |                     | --       | --        | --           | X                | --               | --               |
| Groundwater | Monitoring Well / LFPS | 800MW02-11.9                  | Primary Sample                       | 23-May-16   | pump tubing set at 11.9  |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | 800MW02-11.9 DISSOLVED        | Primary Sample                       | 23-May-16   | pump tubing set at 11.9  |                     | --       | --        | --           | X                | --               | --               |
| Groundwater | Monitoring Well / LFPS | 800MW02-16.9                  | Primary Sample                       | 23-May-16   | pump tubing set at 16.9  |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | 800MW02-16.9 DISSOLVED        | Primary Sample                       | 23-May-16   | pump tubing set at 16.9  |                     | --       | --        | --           | X                | --               | --               |
| Groundwater | Monitoring Well / LFPS | 812MW14-10.27                 | Primary Sample                       | 24-May-16   | pump tubing set at 10.27 |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | 812-MW114-10.27               | Duplicate of 812MW14-10.27           | 24-May-16   | pump tubing set at 10.27 |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | 812MW14-10.27 DISSOLVED       | Primary Sample                       | 24-May-16   | pump tubing set at 10.27 |                     | --       | --        | --           | X                | --               | --               |
| Groundwater | Monitoring Well / LFPS | 866MW02-14.35                 | Primary Sample                       | 24-May-16   | pump tubing set at 14.35 |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | 866MW02-14.35 DISSOLVED       | Primary Sample                       | 24-May-16   | pump tubing set at 14.35 |                     | --       | --        | --           | X                | --               | --               |
| Groundwater | Monitoring Well / LFPS | 86MW02-9.35                   | Primary Sample                       | 24-May-16   | pump tubing set at 9.35  |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | 86MW02-9.35 DISSOLVED         | Primary Sample                       | 24-May-16   | pump tubing set at 9.35  |                     | --       | --        | --           | X                | --               | --               |
| Groundwater | Monitoring Well / LFPS | PAR-57-GW-MW01-12.5           | Primary Sample                       | 23-May-16   | pump tubing set at 12.5  |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | PAR-57-GW-MW01-12.5 DISSOLVED | Primary Sample                       | 23-May-16   | pump tubing set at 12.5  |                     | --       | --        | --           | X                | --               | --               |
| Groundwater | Monitoring Well / LFPS | PAR-57-GW-MW01-17.5           | Primary Sample                       | 24-May-16   | pump tubing set at 17.5  |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | PAR-57-GW-MW01-17.5 DISSOLVED | Primary Sample                       | 24-May-16   | pump tubing set at 17.5  |                     | --       | --        | --           | X                | --               | --               |
| Groundwater | Monitoring Well / LFPS | PAR-57-GW-MW02-15.8           | Primary Sample                       | 24-May-16   | pump tubing set at 15.8  |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | PAR-57-GW-MW02-15.8 DISSOLVED | Primary Sample                       | 24-May-16   | pump tubing set at 15.8  |                     | --       | --        | --           | X                | --               | --               |
| Groundwater | Monitoring Well / LFPS | PAR-57-GW-MW02-20.8           | Primary Sample                       | 24-May-16   | pump tubing set at 20.8  |                     | --       | --        | X            | --               | --               | --               |
| Groundwater | Monitoring Well / LFPS | PAR-57-GW-MW02-20.8 DISSOLVED | Primary Sample                       | 24-May-16   | pump tubing set at 20.8  |                     | --       | --        | --           | X                | --               | --               |

Notes:  
1) X<sup>(1)</sup> Analyzed for Beryllium and Lead only  
2) X<sup>(2)</sup> Analyzed for Beryllium, Cadmium, Chromium, Cobalt and Lead only  
3) X<sup>(3)</sup> Analyzed for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene only  
4) X<sup>(4)</sup> Analyzed for Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene only  
5) X<sup>(5)</sup> Analyzed for Aroclor-1254 and Aroclor-1260 only  
6) VO+TICs = volatile organics + tentatively identified compounds, SVO = semivolatile organics, PAHs = polycyclic aromatic hydrocarbons, PCBs = polychlorinated biphenyls  
7) 2015 and 2016 soil sample depths are in feet below bottom of asphalt and asphalt base material  
8) 2010 soil sample depths are in feet below ground surface  
9) Groundwater sample depths, where known, are in feet below top of casing  
10) LFPS = low flow purge and sample method

**Table 2**  
**Detected Soil Sampling Results - Comparison to New Jersey Direct Contact Criteria**

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | P57-C5            |                   | P57-A1-A          |                   |                     |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|
| Sample ID                              |                                         |                                                 |                                               | P57-SS-C5-1.0-1.5 | P57-SS-C5-1.5-2.0 | P57-SS-A1-1.0-1.5 | P57-SS-A1-1.5-2.0 | P57-SS-A1-A-6.5-7.0 |
| Sample Date                            |                                         |                                                 |                                               | 2/1/2010          | 2/1/2010          | 2/1/2010          | 2/1/2010          | 11/22/2010          |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                   |                   |                   |                   |                     |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | < 0.57            | < 0.54            | 1.45              | < 0.54            | < 0.62              |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | < 0.57            | < 0.54            | 0.72              | < 0.54            | < 0.62              |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | < 0.57            | < 0.54            | 0.77              | < 0.54            | < 0.62              |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | < 0.57            | < 0.54            | 1.54              | < 0.54            | < 0.62              |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | < 0.57            | < 0.54            | NA J              | < 0.54            | < 0.62              |
| Chrysene                               | 62                                      | 230                                             | 80                                            | < 0.57            | < 0.54            | 0.95              | < 0.54            | < 0.62              |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | < 0.57            | < 0.54            | < 0.55            | < 0.54            | < 0.62              |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | < 0.57            | < 0.54            | 1.16              | < 0.54            | < 0.62              |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | < 0.57            | < 0.54            | 0.55              | < 0.54            | < 0.62              |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | < 0.57            | < 0.54            | NA J              | < 0.54            | < 0.62              |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | < 0.57            | < 0.54            | 0.99              | < 0.54            | < 0.62              |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | < 0.57            | 0.49 J            | 0.9               | < 0.54            | < 0.62              |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | < 0.57            | 0.83              | 1.37              | < 0.54            | < 0.62              |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | P57-A1-B            | P57-A1-C            | P57-A1-D            | P57-A1-E            | PAR-57-SS-01          |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|---------------------|---------------------|---------------------|---------------------|-----------------------|
| Sample ID                              |                                         |                                                 |                                               | 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 | FTMM-57-SS-01-0.5-1.0 |
| Sample Date                            |                                         |                                                 |                                               | 11/22/2010          | 11/22/2010          | 11/22/2010          | 11/22/2010          | 9/18/2015             |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                     |                     |                     |                     |                       |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Chrysene                               | 62                                      | 230                                             | 80                                            | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | < 0.62              | < 0.65              | < 0.63              | < 0.65              | NA                    |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-02          | PAR-57-SS-03          | PAR-57-SS-04          |                       |                       |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sample ID                              |                                         |                                                 |                                               | FTMM-57-SS-02-1.3-1.8 | FTMM-57-SS-03-0.5-1.0 | FTMM-57-SS-04-1.0-1.5 | FTMM-57-SS-04-2.0-2.5 | FTMM-57-SS-04-3.0-3.5 |
| Sample Date                            |                                         |                                                 |                                               | 9/18/2015             | 9/18/2015             | 9/18/2015             | 9/18/2015             | 9/18/2015             |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                       |                       |                       |                       |                       |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                    | NA                    | NA                    | NA                    | NA                    |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | NA                    | NA                    | NA                    | NA                    | NA                    |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                    | NA                    | NA                    | NA                    | NA                    |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | NA                    | NA                    | NA                    | NA                    | NA                    |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                    | NA                    | NA                    | NA                    | NA                    |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-05          | PAR-57-SS-06          | PAR-57-SS-07          | PAR-57-SS-08          | PAR-57-SS-09          |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sample ID                              |                                         |                                                 |                                               | FTMM-57-SS-05-0.5-1.0 | FTMM-57-SS-06-0.5-1.0 | FTMM-57-SS-07-0.5-1.0 | FTMM-57-SS-08-0.9-1.4 | FTMM-57-SS-09-0.5-1.0 |
| Sample Date                            |                                         |                                                 |                                               | 9/18/2015             | 9/18/2015             | 9/18/2015             | 9/21/2015             | 10/1/2015             |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                       |                       |                       |                       |                       |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                    | NA                    | NA                    | NA                    | NA                    |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | NA                    | NA                    | NA                    | NA                    | 0.77 J                |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | NA                    | NA                    | NA                    | NA                    | 0.88                  |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | NA                    | NA                    | NA                    | NA                    | 1.2 J                 |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | NA                    | NA                    | NA                    | NA                    | 0.35 J                |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | NA                    | NA                    | NA                    | NA                    | 0.29 J                |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                    | NA                    | NA                    | NA                    | NA                    |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | NA                    | NA                    | NA                    | NA                    | 0.57 J                |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                    | NA                    | NA                    | NA                    | NA                    |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-09          |                       | PAR-57-SS-10          |                       |                       |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sample ID                              |                                         |                                                 |                                               | FTMM-57-SS-09-2.0-2.5 | FTMM-57-SS-09-5.5-6.0 | FTMM-57-SS-10-0.0-0.5 | FTMM-57-SS-10-3.0-3.5 | FTMM-57-SS-10-7.0-7.5 |
| Sample Date                            |                                         |                                                 |                                               | 10/1/2015             | 10/1/2015             | 10/1/2015             | 10/1/2015             | 10/1/2015             |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                       |                       |                       |                       |                       |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                    | NA                    | NA                    | NA                    | NA                    |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | 0.0023 J              | 10                    | 0.27                  | 0.0053 J              | < 0.0044              |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | 0.0031 J              | 8                     | 0.27                  | 0.0049 J              | < 0.0044              |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | 0.0039 J              | 11                    | 0.39                  | 0.0058 J              | < 0.0044              |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | < 0.0038              | 3.3                   | 0.12                  | 0.0031 J              | < 0.0044              |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | < 0.0038              | 1.8                   | 0.075                 | < 0.0044              | < 0.0044              |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                    | NA                    | NA                    | NA                    | NA                    |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | < 0.0038              | 4.5                   | 0.2                   | 0.0031 J              | < 0.0044              |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                    | NA                    | NA                    | NA                    | NA                    |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-11 (SS-111 is a field duplicate of SS-11) |                       |                        |                       | PAR-57-SS-12          |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|-----------------------|------------------------|-----------------------|-----------------------|
| Sample ID                              |                                         |                                                 |                                               | FTMM-57-SS-11-0.0-0.5                               | FTMM-57-SS-11-3.0-3.5 | FTMM-57-SS-111-3.0-3.5 | FTMM-57-SS-11-7.0-7.5 | FTMM-57-SS-12-0.0-0.5 |
| Sample Date                            |                                         |                                                 |                                               | 10/1/2015                                           | 10/1/2015             | 10/1/2015              | 10/1/2015             | 10/1/2015             |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                                                     |                       |                        |                       |                       |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                                                  | NA                    | NA                     | NA                    | NA                    |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | 0.25 J                                              | 0.01                  | 0.015                  | 0.0035 J              | 4.7 J                 |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | 0.21 J                                              | 0.012                 | 0.015                  | 0.0039 J              | 3.7 J                 |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | 0.27 J                                              | 0.016                 | 0.019                  | 0.0048 J              | 4.5 J                 |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | 0.11 J                                              | 0.005 J               | 0.0042 J               | < 0.0043              | 2 J                   |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                                                  | NA                    | NA                     | NA                    | NA                    |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | 0.056 J                                             | < 0.0038              | < 0.0038               | < 0.0043              | 0.85 J                |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                                                  | NA                    | NA                     | NA                    | NA                    |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                                                  | NA                    | NA                     | NA                    | NA                    |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | 0.14 J                                              | 0.005 J               | 0.011                  | 0.0026 J              | 2.3 J                 |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                                                  | NA                    | NA                     | NA                    | NA                    |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                                                  | NA                    | NA                     | NA                    | NA                    |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                                                  | NA                    | NA                     | NA                    | NA                    |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-12 (SS-112 is a field duplicate of SS-12) |                       |                       | PAR-57-SS-13          |                       |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sample ID                              |                                         |                                                 |                                               | FTMM-57-SS-112-0.0-0.5                              | FTMM-57-SS-12-3.0-3.5 | FTMM-57-SS-12-7.0-7.5 | FTMM-57-SS-13-0.0-0.5 | FTMM-57-SS-13-3.0-3.5 |
| Sample Date                            |                                         |                                                 |                                               | 10/1/2015                                           | 10/1/2015             | 10/1/2015             | 10/1/2015             | 10/1/2015             |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                                                     |                       |                       |                       |                       |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                                                  | NA                    | NA                    | NA                    | NA                    |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | 0.24 J                                              | 0.043                 | 0.026                 | 0.98                  | < 0.0039              |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | 0.26 J                                              | 0.039                 | 0.02                  | 0.89                  | < 0.0039              |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | 0.37 J                                              | 0.054                 | 0.026                 | 1.2                   | < 0.0039              |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | 0.11 J                                              | 0.024                 | 0.011                 | 0.31                  | < 0.0039              |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                                                  | NA                    | NA                    | NA                    | NA                    |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | 0.046 J                                             | 0.01                  | < 0.0039              | 0.17                  | < 0.0039              |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                                                  | NA                    | NA                    | NA                    | NA                    |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                                                  | NA                    | NA                    | NA                    | NA                    |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | 0.16 J                                              | 0.023                 | 0.0093                | 0.52                  | < 0.0039              |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                                                  | NA                    | NA                    | NA                    | NA                    |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                                                  | NA                    | NA                    | NA                    | NA                    |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                                                  | NA                    | NA                    | NA                    | NA                    |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-13          | PAR-57-SS-14          |                       |                       | PAR-57-SS-15          |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sample ID                              |                                         |                                                 |                                               | FTMM-57-SS-13-6.5-7.0 | FTMM-57-SS-14-0.0-0.5 | FTMM-57-SS-14-3.0-3.5 | FTMM-57-SS-14-5.0-5.5 | FTMM-57-SS-15-0.0-0.5 |
| Sample Date                            |                                         |                                                 |                                               | 10/1/2015             | 10/1/2015             | 10/1/2015             | 10/1/2015             | 10/1/2015             |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                       |                       |                       |                       |                       |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                    | NA                    | NA                    | NA                    | NA                    |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | < 0.0041              | 1.2                   | 0.035                 | < 0.0037              | 0.066                 |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | < 0.0041              | 0.97                  | 0.035                 | < 0.0037              | 0.077                 |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | < 0.0041              | 1.4                   | 0.041                 | < 0.0037              | 0.092                 |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | < 0.0041              | 0.48                  | 0.014                 | < 0.0037              | 0.019                 |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | < 0.0041              | 0.19                  | 0.012                 | < 0.0037              | 0.021                 |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                    | NA                    | NA                    | NA                    | NA                    |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | < 0.0041              | 0.51                  | 0.023                 | < 0.0037              | 0.047                 |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                    | NA                    | NA                    | NA                    | NA                    |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-15          |                       | PAR-57-SS-16          |                       |                       |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sample ID                              |                                         |                                                 |                                               | FTMM-57-SS-15-3.0-3.5 | FTMM-57-SS-15-5.5-6.0 | FTMM-57-SS-16-0.0-0.5 | FTMM-57-SS-16-1.5-2.0 | FTMM-57-SS-16-6.0-6.5 |
| Sample Date                            |                                         |                                                 |                                               | 10/1/2015             | 10/1/2015             | 10/1/2015             | 10/1/2015             | 10/1/2015             |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                       |                       |                       |                       |                       |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                    | NA                    | NA                    | NA                    | NA                    |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | < 0.0039              | 0.034                 | 0.81                  | 0.2                   | < 0.0039              |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | < 0.0039              | 0.031                 | 0.66                  | 0.22                  | < 0.0039              |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | < 0.0039              | 0.038                 | 1.1                   | 0.39                  | < 0.0039              |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | < 0.0039              | 0.016                 | 0.28                  | < 0.035               | < 0.0039              |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | < 0.0039              | < 0.0036              | < 0.038               | < 0.035               | < 0.0039              |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                    | NA                    | NA                    | NA                    | NA                    |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | < 0.0039              | 0.023                 | 0.44                  | < 0.035               | < 0.0039              |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                    | NA                    | NA                    | NA                    | NA                    |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-17          |                       |                       | PAR-57-SS-18          |                       |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sample ID                              |                                         |                                                 |                                               | FTMM-57-SS-17-0.0-0.5 | FTMM-57-SS-17-3.0-3.5 | FTMM-57-SS-17-5.5-6.0 | FTMM-57-SS-18-0.0-0.5 | FTMM-57-SS-18-5.0-5.5 |
| Sample Date                            |                                         |                                                 |                                               | 10/1/2015             | 10/1/2015             | 10/1/2015             | 10/1/2015             | 10/1/2015             |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                       |                       |                       |                       |                       |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                    | NA                    | NA                    | NA                    | NA                    |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | 4.3                   | < 0.004               | 0.0027 J              | 3.7                   | 0.037                 |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | 4.8                   | < 0.004               | 0.0023 J              | 2.3                   | 0.035                 |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | 6.1                   | < 0.004               | < 0.0038              | 3.8                   | 0.049                 |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | 2.2                   | < 0.004               | 0.0046 J              | 1.1                   | 0.013                 |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | 1.2                   | < 0.004               | < 0.0038              | 0.4                   | 0.0068 J              |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                    | NA                    | NA                    | NA                    | NA                    |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | 2.5                   | < 0.004               | < 0.0038              | 1.1                   | 0.025                 |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                    | NA                    | NA                    | NA                    | NA                    |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-19          |                       | PAR-57-SS-20          |                       |                       |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sample ID                              |                                         |                                                 |                                               | FTMM-57-SS-19-0.0-0.5 | FTMM-57-SS-19-5.5-6.0 | FTMM-57-SS-20-0.0-0.5 | FTMM-57-SS-20-3.0-3.5 | FTMM-57-SS-20-5.0-5.5 |
| Sample Date                            |                                         |                                                 |                                               | 10/1/2015             | 10/1/2015             | 10/1/2015             | 10/1/2015             | 10/1/2015             |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                       |                       |                       |                       |                       |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                    | NA                    | NA                    | NA                    | NA                    |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | < 0.18                | < 0.0045              | 0.27                  | 0.023                 | 0.51                  |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | < 0.18                | < 0.0045              | 0.3                   | 0.013                 | 0.27                  |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | < 0.18                | < 0.0045              | 0.44                  | 0.02                  | 0.4                   |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | < 0.18                | < 0.0045              | 0.12                  | 0.013                 | 0.17                  |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | < 0.18                | < 0.0045              | 0.079                 | < 0.0039              | < 0.039               |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                    | NA                    | NA                    | NA                    | NA                    |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | < 0.18                | < 0.0045              | 0.2                   | 0.011                 | 0.21                  |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                    | NA                    | NA                    | NA                    | NA                    |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-21          |                       | PAR-57-SS-22          |                       | PAR-57-SS-23          |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Sample ID                              |                                         |                                                 |                                               | FTMM-57-SS-21-0.0-0.5 | FTMM-57-SS-21-3.0-3.5 | FTMM-57-SS-22-0.0-0.5 | FTMM-57-SS-22-3.0-3.5 | FTMM-57-SS-23-0.0-0.5 |
| Sample Date                            |                                         |                                                 |                                               | 10/2/2015             | 10/2/2015             | 10/2/2015             | 10/2/2015             | 10/2/2015             |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                       |                       |                       |                       |                       |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                    | NA                    | NA                    | NA                    | NA                    |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | 7.8                   | 0.15                  | 0.32                  | 0.033                 | 0.21                  |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | 8.2                   | 0.15                  | 0.39                  | 0.035                 | 0.28                  |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | 11                    | 0.2                   | 0.53                  | 0.048                 | 0.4                   |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | 3.2                   | 0.061                 | 0.17                  | 0.015                 | 0.12                  |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | 2.3                   | 0.039                 | 0.1                   | 0.0086                | 0.07                  |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                    | NA                    | NA                    | NA                    | NA                    |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | 6                     | 0.098                 | 0.38                  | 0.025                 | 0.24                  |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                    | NA                    | NA                    | NA                    | NA                    |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                    | NA                    | NA                    | NA                    | NA                    |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                    | NA                    | NA                    | NA                    | NA                    |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-23          | PAR-57-SS-24          | PAR-57-SS-25          | PAR-57-SS-26       |                    |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|-----------------------|-----------------------|-----------------------|--------------------|--------------------|
| Sample ID                              |                                         |                                                 |                                               | FTMM-57-SS-23-3.0-3.5 | FTMM-57-SS-24-0.0-0.5 | FTMM-57-SS-25-0.0-0.5 | PAR-57-SB-26-0.5-1 | PAR-57-SB-26-3.5-4 |
| Sample Date                            |                                         |                                                 |                                               | 10/2/2015             | 10/2/2015             | 10/2/2015             | 4/22/2016          | 4/22/2016          |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                       |                       |                       |                    |                    |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                    | NA                    | NA                    | NA                 | NA                 |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | 0.06                  | 0.1                   | 0.0076                | 0.12               | < 0.0079           |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | 0.059                 | 0.1                   | 0.0076                | 0.12               | < 0.0079           |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | 0.085                 | 0.16                  | 0.0087                | 0.15               | < 0.0079           |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | 0.037                 | 0.061                 | 0.0018 J              | NA                 | NA                 |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                    | NA                    | NA                    | NA                 | NA                 |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | 0.014                 | 0.022                 | < 0.0036              | 0.024              | < 0.0079           |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                    | NA                    | NA                    | NA                 | NA                 |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                    | NA                    | NA                    | NA                 | NA                 |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | 0.037                 | 0.072                 | 0.0047 J              | 0.099              | < 0.0079           |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                    | NA                    | NA                    | NA                 | NA                 |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                    | NA                    | NA                    | NA                 | NA                 |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                    | NA                    | NA                    | NA                 | NA                 |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-26        |                    | PAR-57-SS-27       |                    |                    | PAR-57-SS-28       |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Sample ID                              |                                         |                                                 |                                               | PAR-57-SB-126-3.5-4 | PAR-57-SB-26-7.5-8 | 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 |
| Sample Date                            |                                         |                                                 |                                               | 4/22/2016           | 4/22/2016          | 4/22/2016          | 4/22/2016          | 4/22/2016          | 4/22/2016          |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                     |                    |                    |                    |                    |                    |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                  | NA                 | NA                 | NA                 | NA                 | NA                 |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | 0.0035 J            | 0.0041 J           | 0.12               | < 0.0079           | < 0.0077           | 0.4                |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | < 0.0084            | 0.0021 J           | 0.17               | < 0.0079           | < 0.0077           | 0.32               |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | < 0.0084            | 0.0031 J           | 0.2                | < 0.0079           | < 0.0077           | 0.28               |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | NA                  | NA                 | NA                 | NA                 | NA                 | NA                 |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                  | NA                 | NA                 | NA                 | NA                 | NA                 |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | < 0.0084            | < 0.0079           | 0.027              | < 0.0079           | < 0.0077           | 0.057              |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                  | NA                 | NA                 | NA                 | NA                 | NA                 |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                  | NA                 | NA                 | NA                 | NA                 | NA                 |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | < 0.0084            | < 0.0079           | 0.12               | < 0.0079           | < 0.0077           | 0.16               |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                  | NA                 | NA                 | NA                 | NA                 | NA                 |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                  | NA                 | NA                 | NA                 | NA                 | NA                 |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                  | NA                 | NA                 | NA                 | NA                 | NA                 |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-28       |                    | PAR-57-SS-29       |                    |                    | PAR-57-SS-30       |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Sample ID                              |                                         |                                                 |                                               | 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 | PAR-57-SB-30-0.5-1 |
| Sample Date                            |                                         |                                                 |                                               | 4/22/2016          | 4/22/2016          | 4/22/2016          | 4/22/2016          | 4/22/2016          | 4/22/2016          |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                    |                    |                    |                    |                    |                    |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | 0.0032 J           | < 0.0084           | 1.6                | 0.0073 J           | 0.0025 J           | 0.3                |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | < 0.0085           | < 0.0084           | 1.2                | 0.005 J            | < 0.0083           | 0.32               |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | < 0.0085           | < 0.0084           | 1.1                | 0.0038 J           | < 0.0083           | 0.43               |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | < 0.0085           | < 0.0084           | 0.21               | < 0.0079           | < 0.0083           | 0.057              |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | < 0.0085           | < 0.0084           | 0.67               | 0.0023 J           | < 0.0083           | 0.19               |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-30       |                    | PAR-57-SS-31       |                    |                    | PAR-57-SS-32       |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Sample ID                              |                                         |                                                 |                                               | 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 |
| Sample Date                            |                                         |                                                 |                                               | 4/22/2016          | 4/22/2016          | 4/22/2016          | 4/22/2016          | 4/22/2016          | 4/22/2016          |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                    |                    |                    |                    |                    |                    |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | < 0.0079           | 0.0027 J           | 0.035              | 0.052              | 0.0026 J           | 0.25               |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | < 0.0079           | 0.003 J            | 0.061              | 0.07               | < 0.0078           | 0.27               |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | < 0.0079           | < 0.0073           | 0.053              | 0.062              | < 0.0078           | 0.34               |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | < 0.0079           | < 0.0073           | 0.014              | 0.018              | < 0.0078           | 0.035              |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | < 0.0079           | 0.0033 J           | 0.047              | 0.056              | < 0.0078           | 0.21               |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-32       | PAR-57-SS-33       |                    | PAR-57-SS-34       |                    | PAR-57-SS-35       |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Sample ID                              |                                         |                                                 |                                               | 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 | PAR-57-SB-35-0.5-1 |
| Sample Date                            |                                         |                                                 |                                               | 4/22/2016          | 4/22/2016          | 4/22/2016          | 4/22/2016          | 4/22/2016          | 4/22/2016          |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                    |                    |                    |                    |                    |                    |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | 0.0035 J           | 0.009              | < 0.0083           | 0.0033 J           | < 0.0077           | < 0.0076           |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | < 0.0077           | 0.013              | < 0.0083           | < 0.0082           | < 0.0077           | < 0.0076           |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | < 0.0077           | 0.014              | < 0.0083           | < 0.0082           | < 0.0077           | < 0.0076           |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | < 0.0077           | 0.0026 J           | < 0.0083           | < 0.0082           | < 0.0077           | < 0.0076           |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | < 0.0077           | 0.0098             | < 0.0083           | < 0.0082           | < 0.0077           | < 0.0076           |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                 | NA                 | NA                 | NA                 | NA                 | NA                 |

TABLE 2  
DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY  
DIRECT CONTACT CRITERIA  
ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM  
FORT MONMOUTH, NEW JERSEY

| Loc ID                                 | NJ Residential<br>Direct Contact<br>SRS | NJ Non-<br>Residential<br>Direct Contact<br>SRS | NJ Impact to<br>GW Soil<br>Screening<br>Level | PAR-57-SS-35       |
|----------------------------------------|-----------------------------------------|-------------------------------------------------|-----------------------------------------------|--------------------|
| Sample ID                              |                                         |                                                 |                                               | PAR-57-SB-35-3.5-4 |
| Sample Date                            |                                         |                                                 |                                               | 4/22/2016          |
| Semivolatile Organic Compounds (mg/kg) |                                         |                                                 |                                               |                    |
| 2-Methylnaphthalene                    | 230                                     | 2,400                                           | 8                                             | NA                 |
| Benzo(a)anthracene                     | 0.6                                     | 2                                               | 0.8                                           | < 0.0079           |
| Benzo(a)pyrene                         | 0.2                                     | 0.2                                             | 0.2                                           | < 0.0079           |
| Benzo(b)fluoranthene                   | 0.6                                     | 2                                               | 2                                             | < 0.0079           |
| Benzo(k)fluoranthene                   | 6                                       | 23                                              | 25                                            | NA                 |
| Chrysene                               | 62                                      | 230                                             | 80                                            | NA                 |
| Dibenz(a,h)anthracene                  | 0.2                                     | 0.2                                             | 0.8                                           | < 0.0079           |
| Fluoranthene                           | 2,300                                   | 24,000                                          | 1,300                                         | NA                 |
| Fluorene                               | 2,300                                   | 24,000                                          | 170                                           | NA                 |
| Indeno(1,2,3-cd)pyrene                 | 0.6                                     | 2                                               | 7                                             | < 0.0079           |
| Naphthalene                            | 6                                       | 17                                              | 25                                            | NA                 |
| Phenanthrene                           | NLE                                     | 300,000                                         | NLE                                           | NA                 |
| Pyrene                                 | 1,700                                   | 18,000                                          | 840                                           | NA                 |

**TABLE 2**  
**DETECTED SOIL SAMPLING RESULTS - COMPARISON TO NEW JERSEY DIRECT CONTACT CRITERIA**  
**ECP PARCEL 57 ROUND 3 WORK PLAN ADDENDUM**  
**FORT MONMOUTH, NEW JERSEY**

Footnotes:

- 1) All historical data collected prior to 2013 are reported as provided by others
- 2) mg/kg = milligrams per kilogram
- 3) NLE = no limit established
- 4) NA = not analyzed
- 5) **BOLD** = detected result
- 6) Chemical result qualifiers are assigned by the laboratory and are evaluated and modified (if necessary) during the data validation.
- 7) J = estimated detected value due to a concentration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control criteria
- 8) < = non-detect, i.e. not detected at or above this value
- 9) Exceedances of one or more comparison criteria are highlighted as follows:

- Cell Shade indicates result is above the NJ Residential Direct Contact Soil Remediation Standard, and (in some cases), the NJ Impact to Ground Water Screening Level

- Cell Shade indicates result is above NJ Residential and Non-Residential Direct Contact Soil Remediation Standards, and (in some cases), the NJ Impact to Ground Water Screening Level

There are no NJDEP soil standards for individual PCB Aroclors, therefore the NJDEP standard for total PCBs was used for individual Aroclors

10) Comparison Criteria source documents and web addresses:

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's May 7, 2012 Remediation Standards  
[http://www.nj.gov/dep/rules/rules/njac7\\_26d.pdf](http://www.nj.gov/dep/rules/rules/njac7_26d.pdf)
- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's May 7, 2012 Remediation Standards.  
[http://www.nj.gov/dep/rules/rules/njac7\\_26d.pdf](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](http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf)

**Table 3**  
**Proposed Round 3 Sampling Summary for Parcel 57**

**TABLE 3**  
**SAMPLING SUMMARY FOR PARCEL 57 ROUND 3 WORKPLAN ADDENDUM**  
**FORT MONMOUTH, NEW JERSEY**

| Site                                                                | Location                                                                                                                                                                  | Number of Borings | PAHs by Method 8270 SIM | Number of Primary Samples | Number of Contingency Samples | Rationale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------|---------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Soil</b>                                                         |                                                                                                                                                                           |                   |                         |                           |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Parcel 57                                                           | Primary Borings on the northern portion of Parcel 57 (see Figure 4): 1 soil boring (PAR-57-SS-45), 1 sample.                                                              | 1                 | 1                       | 1                         | 0                             | Subsurface soil samples will be collected from 7.5 ft bgs at PAR-57-SS-45 to delineate PAHs vertically.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|                                                                     | Primary/Contingency borings located north of Parcel 57 (see Figure 4): 1 primary soil boring (PAR-57-SB-46) and 1 contingency soil boring (PAR-57-SB-47), 3 samples each. | 2                 | 6                       | 3                         | 3                             | Surface soil samples (0 to 6-inch interval below the asphalt and asphalt base material) will be collected from primary borings PAR-57-SB-46 taking care not to introduce asphalt and/or road base into the samples. In addition, soil will be collected from a 6 inch interval at approximately 3.5 feet bgs, and 7.5 feet bgs to evaluate the horizontal and vertical PAH extent. Samples from contingency boring PAR-57-SB-47 will be sent to the lab to be extracted and held pending the analysis of samples from soil boring PAR-57-SB-46.                                       |
|                                                                     | Primary borings located north and south of Parcel 57 (see Figure 4): 2 soil borings (PAR-57-SB-48 and PAR-57-SB-51), 3 samples each.                                      | 2                 | 6                       | 2                         | 4                             | Surface soil samples (0 to 6-inch interval below the asphalt and asphalt base material) will be collected from primary borings PAR-57-SB-48 and PAR-57-SB-51 taking care not to introduce asphalt and/or road base into the samples. In addition, soil will be collected from a 6 inch interval at approximately 3.5 feet bgs, and 7.5 feet bgs to evaluate the horizontal and vertical PAH extent. Samples from the 3.5 and 7.5 feet bgs intervals will be sent to the lab to be extracted and held pending the analysis of primary samples.                                         |
|                                                                     | Contingency borings located north and south of Parcel 57 (see Figure 4): 4 soil borings (PAR-57-SB-49, PAR-57-SB-50, PAR-57-SB-52, and PAR-57-SB-53), 3 samples each.     | 4                 | 12                      | 0                         | 12                            | Surface soil samples (0 to 6-inch interval below the asphalt and asphalt base material) will be collected from contingency boring PAR-57-SB-49, PAR-57-SB-50, PAR-57-SB-52, and PAR-57-SB-53 taking care not to introduce asphalt and/or road base into the samples. In addition, soil will be collected from a 6 inch interval at approximately 3.5 feet bgs, and 7.5 feet bgs to evaluate the horizontal and vertical PAH extent. Samples will be sent to the lab to be extracted and held pending the analysis of primary samples from soil borings PAR-57-SB-48 and PAR-57-SB-51. |
| <b>QA/QC samples (see SAP for additional details) <sup>a/</sup></b> |                                                                                                                                                                           |                   |                         |                           |                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Field Duplicates (5% Sampling Frequency per media)                  |                                                                                                                                                                           | NA                | 2                       | 1                         | 1                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Matrix Spike (5% Sampling Frequency per media)                      |                                                                                                                                                                           | NA                | 2                       | 1                         | 1                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Matrix Spike Duplicate (5% Sampling Frequency per media)            |                                                                                                                                                                           | NA                | 2                       | 1                         | 1                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Trip Blank (1 per cooler of VOCs per media)                         |                                                                                                                                                                           | NA                | 0                       | 0                         | 0                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| QA Split (5% per media)                                             |                                                                                                                                                                           | NA                | 2                       | 1                         | 1                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Equipment Blank (5% Sampling Frequency per media)                   |                                                                                                                                                                           | NA                | 2                       | 1                         | 1                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>TOTAL</b>                                                        |                                                                                                                                                                           | <b>NA</b>         | <b>35</b>               | <b>11</b>                 | <b>24</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**Notes:**

NA = not applicable.

<sup>a/</sup> QA/QC = quality assurance/quality control; SAP = Sampling and Analysis Plan. The requirement for QA/QC samples may be fulfilled with samples from other parcels.

**Attachment 1**  
**Parcel 57 Round 2 Boring Logs**

## Soil Boring Log

|                               |  |  |  |  |                                              |  |                              |  |
|-------------------------------|--|--|--|--|----------------------------------------------|--|------------------------------|--|
| CLIENT: USACE                 |  |  |  |  | INSPECTOR: CW                                |  | BORING/WELL ID: PAR-57-SB-2C |  |
| PROJECT NAME: FTMM - ECP      |  |  |  |  | DRILLER: JB                                  |  | LOCATION DESCRIPTION         |  |
| PROJECT LOCATION: FTMM Parcel |  |  |  |  | WEATHER: 60°F clear                          |  | bwal 57                      |  |
| PROJECT NUMBER: 748810-       |  |  |  |  | CONTRACTOR: East Coast Drilling, Inc. (ECDI) |  | LOCATION PLAN                |  |
| GROUNDWATER OBSERVATIONS      |  |  |  |  | RIG TYPE: Geoprobe(R) 7822DT                 |  | Oceanport, New Jersey        |  |
| WATER LEVEL: ~ 3.5            |  |  |  |  | DATE/TIME START: 4/22/16 0840                |  |                              |  |
| DATE: 4/22/16                 |  |  |  |  | DATE/TIME FINISH: 4/22/16 0840               |  |                              |  |
| TIME: 0840                    |  |  |  |  | WEIGHT OF HAMMER: N/A                        |  |                              |  |
| MEAS. FROM: 3.5               |  |  |  |  | DROP OF HAMMER: N/A                          |  |                              |  |
| TYPE OF HAMMER: N/A           |  |  |  |  |                                              |  |                              |  |

| DEPTH (feet) | SAMPLE I.D. | BLOWS per 6" | ADV/ REC. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL                    | STRATA | COMMENTS |
|--------------|-------------|--------------|-----------|-----------|-----------------------------------------------------|--------|----------|
| 0            |             |              | 60/58     | 0         | 0-6" Asphalt, millings, gravel                      |        |          |
|              | 6.5-1       |              |           |           | 6-40" moist, m. dense, grey-green                   | I      |          |
| 1            |             |              |           |           | mf SAND, some silt, trace f gravel                  |        |          |
|              |             |              |           |           | 40-58" saturated, m. dense, grey-green, MC SAND,    |        |          |
| 2            |             |              |           |           | little silt, trace f gravel                         | II     |          |
|              | 3.5-4       |              |           |           |                                                     |        |          |
| 4            |             |              |           |           |                                                     |        |          |
|              |             |              |           |           |                                                     |        |          |
| 5            |             |              | 60/58     | 0         | 0-35" SAA                                           |        |          |
|              |             |              |           |           | 35-44" grey/tan, SAA                                |        |          |
| 6            |             |              |           |           | 44-66" wet, light Brown/tan, soft clay, some f sand | III    |          |
|              | 7.5-8       |              |           |           | 56-58" wet, light Brown/tan MC SAND                 |        |          |
| 7            |             |              |           |           |                                                     |        |          |
|              |             |              |           |           |                                                     |        |          |
| 8            |             |              |           |           |                                                     |        |          |
|              |             |              |           |           |                                                     |        |          |
| 9            |             |              |           |           |                                                     |        |          |
|              |             |              |           |           |                                                     |        |          |
| 10           |             |              |           |           | end of bore                                         |        |          |

Remarks:

| Sample Types         | Consistency vs. Blowcount / Foot |                            |                                     |
|----------------------|----------------------------------|----------------------------|-------------------------------------|
| S - Split-Spoon      | Granular (Sand & Gravel)         | Fine Grained (Silt & Clay) |                                     |
| U - Undisturbed Tube | V. Loose: 0-4 Dense: 30-50       | V. Soft: <2 Stiff: 8-15    | and - 35-50%                        |
| C - Rock Core        | Loose: 4-10 V. Dense: >50        | Soft: 2-4 V. Stiff: 15-30  | some - 20-35%                       |
| A - Auger Cuttings   | M. Dense: 10-30                  | M. Stiff: 4-8 Hard: >30    | little - 10-20%                     |
|                      |                                  |                            | trace - <10%                        |
|                      |                                  |                            | moisture, density, color, gradation |

## Soil Boring Log

| CLIENT: USACE<br>PROJECT NAME: FTMM - ECP<br>PROJECT LOCATION: FTMM Parcel<br>PROJECT NUMBER: 748810- |               |                            |                 |           | INSPECTOR: DW<br>DRILLER: JB<br>WEATHER: 60°F<br>CONTRACTOR: East Coast Drilling, Inc. (ECDI)                                                                                                                                                                                                                                                                                                                                                                                          |        | BORING/WELL ID: PAT-57-SB-27<br>LOCATION DESCRIPTION: Parcel 57 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
|-------------------------------------------------------------------------------------------------------|---------------|----------------------------|-----------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------------------------------|--------------------------|--|----------------------------|--|---------------|--------------|-------------|-------------|-------------|---------------|-----------|-----------------|-----------------|--|---------------|-----------|---------------------------------------------------------------------------------------------------------|--|
| GROUNDWATER OBSERVATIONS<br><br>WATER LEVEL: 2.5<br>DATE: 4/22/16<br>TIME:<br>MEAS. FROM:             |               |                            |                 |           | RIG TYPE: Geoprobe(R) 7822DT<br>DATE/TIME START: 4/22/16<br>DATE/TIME FINISH: 4/22/16<br>WEIGHT OF HAMMER: N/A<br>DROP OF HAMMER: N/A<br>TYPE OF HAMMER: N/A                                                                                                                                                                                                                                                                                                                           |        | LOCATION PLAN<br>Oceanport, New Jersey                          |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| DEPTH (feet)                                                                                          | SAMPLE I.D.   | BLOWS per 6"               | ADV/ REC.       | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL                                                                                                                                                                                                                                                                                                                                                                                                                                                       | STRATA | COMMENTS                                                        |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| 0                                                                                                     | 0.0-5         |                            | 60/60           | 0         | 0-8" Brown, mf SAND, some silt, trace f gravel                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| 1                                                                                                     |               |                            |                 |           | 8-34" Brown, mf SAND, some rock frags, some f gravel little brick                                                                                                                                                                                                                                                                                                                                                                                                                      | I      |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| 2                                                                                                     |               |                            |                 |           | 34"-48" moist, light gray/light brown mottled f SAND and clay.                                                                                                                                                                                                                                                                                                                                                                                                                         |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| 3                                                                                                     |               |                            |                 |           | 48-60 moist, light gray/light brown mottled mf SAND, trace clay                                                                                                                                                                                                                                                                                                                                                                                                                        | III    |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| 4                                                                                                     | 3.5-4         |                            |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| 5                                                                                                     |               |                            | 60/60           | 0         | 0-36" saturated, light tan, mc SAND                                                                                                                                                                                                                                                                                                                                                                                                                                                    |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| 6                                                                                                     |               |                            |                 |           | 36"-50" saturated, orange, mc SAND, little silt                                                                                                                                                                                                                                                                                                                                                                                                                                        | III    |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| 7                                                                                                     |               |                            |                 |           | 50-60" Dark grey, f SAND and silt,                                                                                                                                                                                                                                                                                                                                                                                                                                                     |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| 8                                                                                                     | 7.5-8         |                            |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| 9                                                                                                     |               |                            |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| 10                                                                                                    |               |                            |                 |           | end of boring                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| Remarks:                                                                                              |               |                            |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| Sample Types<br>S - Split-Spoon<br>U - Undisturbed Tube<br>C - Rock Core<br>A - Auger Cuttings        |               |                            |                 |           | Consistency vs. Blowcount / Foot<br><table border="1"> <tr> <th colspan="2">Granular (Sand &amp; Gravel)</th> <th colspan="2">Fine Grained (Silt &amp; Clay)</th> </tr> <tr> <td>V. Loose: 0-4</td> <td>Dense: 30-50</td> <td>V. Soft: &lt;2</td> <td>Stiff: 8-15</td> </tr> <tr> <td>Loose: 4-10</td> <td>V. Dense: &gt;50</td> <td>Soft: 2-4</td> <td>V. Stiff: 16-30</td> </tr> <tr> <td>M. Dense: 10-30</td> <td></td> <td>M. Stiff: 4-8</td> <td>Hard: &gt;30</td> </tr> </table> |        |                                                                 | Granular (Sand & Gravel) |  | Fine Grained (Silt & Clay) |  | V. Loose: 0-4 | Dense: 30-50 | V. Soft: <2 | Stiff: 8-15 | Loose: 4-10 | V. Dense: >50 | Soft: 2-4 | V. Stiff: 16-30 | M. Dense: 10-30 |  | M. Stiff: 4-8 | Hard: >30 | and - 35-50%<br>some - 20-35%<br>little - 10-20%<br>trace - <10%<br>moisture, density, color, gradation |  |
| Granular (Sand & Gravel)                                                                              |               | Fine Grained (Silt & Clay) |                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| V. Loose: 0-4                                                                                         | Dense: 30-50  | V. Soft: <2                | Stiff: 8-15     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| Loose: 4-10                                                                                           | V. Dense: >50 | Soft: 2-4                  | V. Stiff: 16-30 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |
| M. Dense: 10-30                                                                                       |               | M. Stiff: 4-8              | Hard: >30       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |                                                                 |                          |  |                            |  |               |              |             |             |             |               |           |                 |                 |  |               |           |                                                                                                         |  |

0905

0910

0915

## Soil Boring Log

|                               |  |  |  |  |                                              |  |                              |  |
|-------------------------------|--|--|--|--|----------------------------------------------|--|------------------------------|--|
| CLIENT: USACE                 |  |  |  |  | INSPECTOR: CW                                |  | BORING/WELL ID: PAR-57-SB-28 |  |
| PROJECT NAME: FTMM - ECP      |  |  |  |  | DRILLER: JD                                  |  | LOCATION DESCRIPTION         |  |
| PROJECT LOCATION: FTMM Parcel |  |  |  |  | WEATHER: 70°F clear                          |  | Parcel 57                    |  |
| PROJECT NUMBER: 748810-       |  |  |  |  | CONTRACTOR: East Coast Drilling, Inc. (ECDI) |  |                              |  |
| GROUNDWATER OBSERVATIONS      |  |  |  |  | RIG TYPE: Geoprobe(R) 7822DT                 |  | LOCATION PLAN                |  |
| WATER LEVEL: 26               |  |  |  |  | DATE/TIME START: 4/22/16                     |  | Oceanport, New Jersey        |  |
| DATE: 4/22/16                 |  |  |  |  | DATE/TIME FINISH: 4/22/16                    |  |                              |  |
| TIME:                         |  |  |  |  | WEIGHT OF HAMMER: N/A                        |  |                              |  |
| MEAS. FROM:                   |  |  |  |  | DROP OF HAMMER: N/A                          |  |                              |  |
| TYPE OF HAMMER: N/A           |  |  |  |  |                                              |  |                              |  |

| DEPTH (feet) | SAMPLE I.D. | BLOWS per 6" | ADV/ REC. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL                                           | STRATA | COMMENTS |
|--------------|-------------|--------------|-----------|-----------|----------------------------------------------------------------------------|--------|----------|
| 0            |             |              | 60/60     | 0         | 0-5" Asphalt & millings                                                    |        |          |
| 0.5-1        |             |              |           |           | 5"-26" Brown, mf SAND, some Rock frags, some f gravel, trace brick         | I      |          |
| 1            |             |              |           |           |                                                                            |        |          |
| 2            |             |              |           |           |                                                                            |        |          |
| 3            |             |              |           |           | 26"-60" moist, Brown/grey/white Brown mf SAND, little silt                 |        |          |
| 3.5-4        |             |              |           |           |                                                                            | II     |          |
| 4            |             |              |           |           |                                                                            |        |          |
| 5            |             |              | 60/60     | 0         | 0-15" SAN                                                                  |        |          |
| 15-24"       |             |              |           |           | saturated, light Brown MC SAND, trace silt                                 | III    |          |
| 6            |             |              |           |           |                                                                            |        |          |
| 7            |             |              |           |           | 24"-36" moist, light grey/light Brown/Red Brown, mottled f SAND, some clay |        |          |
| 7.5-8        |             |              |           |           | 36"-60" wet, light brown/red Brown/ light orange mf SAND, little silt      |        |          |
| 8            |             |              |           |           |                                                                            |        |          |
| 9            |             |              |           |           |                                                                            |        |          |
| 10           |             |              |           |           | end of boring                                                              |        |          |

Remarks:

| Sample Types         | Consistency vs. Blowcount / Foot |               |                            |                 |                                     |
|----------------------|----------------------------------|---------------|----------------------------|-----------------|-------------------------------------|
| S - Split-Spoon      | Granular (Sand & Gravel)         |               | Fine Grained (Silt & Clay) |                 |                                     |
| U - Undisturbed Tube | V. Loose: 0-4                    | Dense: 30-50  | V. Soft: <2                | Stiff: 8-15     | and - 35-50%                        |
| C - Rock Core        | Loose: 4-10                      | V. Dense: >50 | Soft: 2-4                  | V. Stiff: 15-30 | some - 20-35%                       |
| A - Auger Cuttings   | M. Dense: 10-30                  |               | M. Stiff: 4-8              | Hard: >30       | little - 10-20%                     |
|                      |                                  |               |                            |                 | trace - <10%                        |
|                      |                                  |               |                            |                 | moisture, density, color, gradation |

## Soil Boring Log

|                               |                                              |                              |
|-------------------------------|----------------------------------------------|------------------------------|
| CLIENT: USACE                 | INSPECTOR: CW                                | BORING/WELL ID: PAR-57-SB-29 |
| PROJECT NAME: FTMM - ECP      | DRILLER: DB                                  | LOCATION DESCRIPTION         |
| PROJECT LOCATION: FTMM Parcel | WEATHER: 65°F clear                          | Parcel 57                    |
| PROJECT NUMBER: 748810-       | CONTRACTOR: East Coast Drilling, Inc. (ECDI) |                              |
| GROUNDWATER OBSERVATIONS      | RIG TYPE: Geoprobe(R) 7822DT                 | LOCATION PLAN                |
| WATER LEVEL: ~6               | DATE/TIME START: 4/22/16                     | Oceanport, New Jersey        |
| DATE: 4/22/16                 | DATE/TIME FINISH: 4/22/16                    |                              |
| TIME:                         | WEIGHT OF HAMMER: N/A                        |                              |
| MEAS. FROM:                   | DROP OF HAMMER: N/A                          |                              |
|                               | TYPE OF HAMMER: N/A                          |                              |

| DEPTH (feet) | SAMPLE I.D. | BLOWS per 6" | ADV/ REC. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL                                   | STRATA | COMMENTS |
|--------------|-------------|--------------|-----------|-----------|--------------------------------------------------------------------|--------|----------|
| 0955<br>0    | 0.5-1       |              | 60/60     | 0         | 0-6" asphalt + millings                                            |        |          |
| 1            |             |              |           |           | 6-33" Brown, mf SAND, some f gravel, little rock frags, trace silt | I      |          |
| 2            |             |              |           |           | 33-60" light Brown, TAN, mf SAND, little f gravel, moist           |        |          |
| 3            |             |              |           |           |                                                                    | III    |          |
| 1000<br>4    | 3.5-4       |              |           |           |                                                                    |        |          |
| 5            |             |              | 60/60     | 0         | 0-10" SAA                                                          |        |          |
| 6            |             |              |           |           | 10"-25" light wet, light Brown, m. dense, mf SAND, trace f gravel  | III    |          |
| 7            |             |              |           |           | 25"-36" wet, light TAN, m. dense f SAND, trace silt                |        |          |
| 1005<br>8    | 7.5-8       |              |           |           | 36"-60" wet, light tan, loose mc SAND                              |        |          |
| 9            |             |              |           |           |                                                                    |        |          |
| 10           |             |              |           |           | end of boring                                                      |        |          |

Remarks:

## Sample Types

S - Split-Spoon  
 U - Undisturbed Tube  
 C - Rock Core  
 A - Auger Cuttings

## Consistency vs. Blowcount / Foot

| Granular (Sand & Gravel) |               | Fine Grained (Silt & Clay) |                 |
|--------------------------|---------------|----------------------------|-----------------|
| V. Loose: 0-4            | Dense: 30-50  | V. Soft: <2                | Stiff: 8-15     |
| Loose: 4-10              | V. Dense: >50 | Soft: 2-4                  | V. Stiff: 15-30 |
| M. Dense: 10-30          |               | M. Stiff: 4-6              | Hard: >30       |

and - 35-50%  
 some - 20-35%  
 little - 10-20%  
 trace - <10%

moisture, density, color, gradation

## Soil Boring Log

|                               |                                              |                              |
|-------------------------------|----------------------------------------------|------------------------------|
| CLIENT: USACE                 | INSPECTOR: CW                                | BORING/WELL ID: PA2-57-1B-30 |
| PROJECT NAME: FTMM - ECP      | DRILLER: JJB                                 | LOCATION DESCRIPTION         |
| PROJECT LOCATION: FTMM Parcel | WEATHER: 65°F                                | Force 1 57                   |
| PROJECT NUMBER: 748810-       | CONTRACTOR: East Coast Drilling, Inc. (ECDI) | LOCATION PLAN                |
| GROUNDWATER OBSERVATIONS      | RIG TYPE: Geoprobe(R) 7822DT                 | Oceanport, New Jersey        |
| WATER LEVEL: 7'               | DATE/TIME START: 4/22/16                     |                              |
| DATE: 4/22/16                 | DATE/TIME FINISH: 4/22/16                    |                              |
| TIME:                         | WEIGHT OF HAMMER: N/A                        |                              |
| MEAS. FROM:                   | DROP OF HAMMER: N/A                          |                              |
|                               | TYPE OF HAMMER: N/A                          |                              |

| DEPTH<br>(feet) | SAMPLE<br>I.D. | BLOWS<br>per 6" | ADV/<br>REC. | PID<br>(ppm) | FIELD IDENTIFICATION OF MATERIAL                        | STRATA | COMMENTS |
|-----------------|----------------|-----------------|--------------|--------------|---------------------------------------------------------|--------|----------|
| 0               |                |                 | 60/58        | 0            | 0-6" Asphalt + mulch                                    |        |          |
| 1135            | 0.5-1          |                 |              |              | 6"-60" B. light brown, mt<br>SAND, some mt, mul         | I      |          |
| 1               |                |                 |              |              |                                                         |        |          |
| 2               |                |                 |              |              |                                                         |        |          |
| 3               |                |                 |              |              |                                                         | III    |          |
| 1140            | 7.5-4          |                 |              |              |                                                         |        |          |
| 4               |                |                 |              |              |                                                         |        |          |
| 5               |                |                 | 60/60        | 0            | 0-28" SAA, saturated w<br>23"                           |        |          |
| 6               |                |                 |              |              | 28-60" Wet, light brown<br>MC SAND, little<br>f gravel. | III    |          |
| 7               |                |                 |              |              |                                                         |        |          |
| 1145            | 7.5-8          |                 |              |              |                                                         |        |          |
| 8               |                |                 |              |              |                                                         |        |          |
| 9               |                |                 |              |              |                                                         |        |          |
| 10              |                |                 |              |              | end of boring                                           |        |          |

Remarks:

## Sample Types

S - Split-Spoon  
 U - Undisturbed Tube  
 C - Rock Core  
 A - Auger Cuttings

## Consistency vs. Blowcount / Foot

| Granular (Sand & Gravel) |               | Fine Grained (Silt & Clay) |                 |
|--------------------------|---------------|----------------------------|-----------------|
| V. Loose: 0-4            | Dense: 30-50  | V. Soft: <2                | Stiff: 8-15     |
| Loose: 4-10              | V. Dense: >50 | Soft: 2-4                  | V. Stiff: 15-30 |
| M. Dense: 10-30          |               | M. Stiff: 4-8              | Hard: >30       |

and - 35-50%  
 some - 20-35%  
 little - 10-20%  
 trace - <10%

moisture, density, color, gradation

## Soil Boring Log

| CLIENT: USACE                 |                |                 |              |                                     | INSPECTOR: <u>CW</u>                                                                        |        | BORINGWELL ID: <u>PAR-57-9B-01</u> |  |
|-------------------------------|----------------|-----------------|--------------|-------------------------------------|---------------------------------------------------------------------------------------------|--------|------------------------------------|--|
| PROJECT NAME: FTMM - ECP      |                |                 |              |                                     | DRILLER: <u>JB</u>                                                                          |        | LOCATION DESCRIPTION               |  |
| PROJECT LOCATION: FTMM Parcel |                |                 |              |                                     | WEATHER: <u>75°F</u>                                                                        |        | <u>Parcel 57</u>                   |  |
| PROJECT NUMBER: 748810-       |                |                 |              |                                     | CONTRACTOR: East Coast Drilling, Inc. (ECDI)                                                |        |                                    |  |
| GROUNDWATER OBSERVATIONS      |                |                 |              |                                     | RIG TYPE: Geoprobe(R) 7822DT                                                                |        | LOCATION PLAN                      |  |
| WATER LEVEL: <u>W3</u>        |                |                 |              |                                     | DATE/TIME START: <u>4/22/16</u>                                                             |        | Oceanport, New Jersey              |  |
| DATE: <u>4/22/16</u>          |                |                 |              |                                     | DATE/TIME FINISH: <u>4/22/16</u>                                                            |        |                                    |  |
| TIME:                         |                |                 |              |                                     | WEIGHT OF HAMMER: <u>N/A</u>                                                                |        |                                    |  |
| MEAS. FROM:                   |                |                 |              |                                     | DROP OF HAMMER: <u>N/A</u>                                                                  |        |                                    |  |
| TYPE OF HAMMER: <u>N/A</u>    |                |                 |              |                                     |                                                                                             |        |                                    |  |
| DEPTH<br>(feet)               | SAMPLE<br>I.D. | BLOWS<br>per 6" | ADV/<br>REC. | PID<br>(ppm)                        | FIELD IDENTIFICATION OF MATERIAL                                                            | STRATA | COMMENTS                           |  |
| 0                             |                |                 |              | 0                                   | 0-6" gravel                                                                                 | I      |                                    |  |
| 1400                          | 0.5-1          |                 |              | 1                                   | 6-60" det, orange-light brown,<br>MC SAND, trace silt,<br>trace f gravel<br>saturated @ 35" | III    |                                    |  |
|                               |                |                 |              |                                     |                                                                                             |        |                                    |  |
| 2                             |                |                 |              |                                     |                                                                                             |        |                                    |  |
|                               |                |                 |              |                                     |                                                                                             |        |                                    |  |
| 3                             |                |                 |              |                                     |                                                                                             |        |                                    |  |
| 1405                          | 3.5-4          |                 |              |                                     |                                                                                             |        |                                    |  |
| 4                             |                |                 |              |                                     |                                                                                             |        |                                    |  |
|                               |                |                 |              |                                     |                                                                                             |        |                                    |  |
| 5                             |                |                 |              | 0                                   | 0-60" saturated, SAA                                                                        | III    |                                    |  |
|                               |                |                 |              |                                     |                                                                                             |        |                                    |  |
| 6                             |                |                 |              |                                     |                                                                                             |        |                                    |  |
|                               |                |                 |              |                                     |                                                                                             |        |                                    |  |
| 7                             |                |                 |              |                                     |                                                                                             |        |                                    |  |
| 1410                          | 7.5-8          |                 |              |                                     |                                                                                             |        |                                    |  |
| 8                             |                |                 |              |                                     |                                                                                             |        |                                    |  |
|                               |                |                 |              |                                     |                                                                                             |        |                                    |  |
| 9                             |                |                 |              |                                     |                                                                                             |        |                                    |  |
|                               |                |                 |              |                                     |                                                                                             |        |                                    |  |
| 10                            |                |                 |              |                                     | end of boring                                                                               |        |                                    |  |
| Remarks:                      |                |                 |              |                                     |                                                                                             |        |                                    |  |
| Sample Types                  |                |                 |              | Consistency vs. Blowcount / Foot    |                                                                                             |        |                                    |  |
| S - Split-Spoon               |                |                 |              | Granular (Sand & Gravel)            |                                                                                             |        |                                    |  |
| U - Undisturbed Tube          |                |                 |              | Fine Grained (Silt & Clay)          |                                                                                             |        |                                    |  |
| C - Rock Core                 |                |                 |              | V. Loose: 0-4 Dense: 30-50          |                                                                                             |        |                                    |  |
| A - Auger Cuttings            |                |                 |              | V. Soft: <2 Stiff: 8-15             |                                                                                             |        |                                    |  |
|                               |                |                 |              | Loose: 4-10 V. Dense: >50           |                                                                                             |        |                                    |  |
|                               |                |                 |              | Soft: 2-4 V. Stiff: 15-30           |                                                                                             |        |                                    |  |
|                               |                |                 |              | M. Stiff: 4-8 Hard: >30             |                                                                                             |        |                                    |  |
|                               |                |                 |              | and - 35-50%                        |                                                                                             |        |                                    |  |
|                               |                |                 |              | some - 20-35%                       |                                                                                             |        |                                    |  |
|                               |                |                 |              | little - 10-20%                     |                                                                                             |        |                                    |  |
|                               |                |                 |              | trace - <10%                        |                                                                                             |        |                                    |  |
|                               |                |                 |              | moisture, density, color, gradation |                                                                                             |        |                                    |  |

## Soil Boring Log

| CLIENT: USACE                  |                |                 |              |                                                                  | INSPECTOR: <u>1W</u>                                                         |        | BORING/WELL ID: <u>BAE-57-SB-32</u> |  |
|--------------------------------|----------------|-----------------|--------------|------------------------------------------------------------------|------------------------------------------------------------------------------|--------|-------------------------------------|--|
| PROJECT NAME: FTMM - ECP       |                |                 |              |                                                                  | DRILLER: <u>JB</u>                                                           |        | LOCATION DESCRIPTION                |  |
| PROJECT LOCATION: FTMM Parcel  |                |                 |              |                                                                  | WEATHER: <u>75°F</u>                                                         |        | <u>Parcel 57</u>                    |  |
| PROJECT NUMBER: 748810-        |                |                 |              |                                                                  | CONTRACTOR: East Coast Drilling, Inc. (ECDI)                                 |        |                                     |  |
| GROUNDWATER OBSERVATIONS       |                |                 |              |                                                                  | RIG TYPE: Geoprobe(R) 7822DT                                                 |        | LOCATION PLAN                       |  |
| WATER LEVEL: <u>          </u> |                |                 |              |                                                                  | DATE/TIME START: <u>4/22/16</u>                                              |        | Oceanport, New Jersey               |  |
| DATE: <u>4/22/16</u>           |                |                 |              |                                                                  | DATE/TIME FINISH: <u>4/22/16</u>                                             |        |                                     |  |
| TIME: <u>          </u>        |                |                 |              |                                                                  | WEIGHT OF HAMMER: N/A                                                        |        |                                     |  |
| MEAS. FROM: <u>          </u>  |                |                 |              |                                                                  | DROP OF HAMMER: N/A                                                          |        |                                     |  |
|                                |                |                 |              |                                                                  | TYPE OF HAMMER: N/A                                                          |        |                                     |  |
| DEPTH<br>(feet)                | SAMPLE<br>I.D. | BLOWS<br>per 6" | ADV/<br>REC. | PID<br>(ppm)                                                     | FIELD IDENTIFICATION OF MATERIAL                                             | STRATA | COMMENTS                            |  |
| 0                              |                |                 |              | 0                                                                | 0-6" asphalt & millings                                                      |        |                                     |  |
| 1250                           | 0.5-1          |                 |              |                                                                  | 6-35" moist, m. dense, gray, mf<br>SAND, some silt                           |        |                                     |  |
| 1                              |                |                 |              |                                                                  | 35"-60" moist, gray/brown/orange-brown<br>MF SAND, trace gravel              | II     |                                     |  |
| 2                              |                |                 |              |                                                                  |                                                                              |        |                                     |  |
| 3                              |                |                 |              |                                                                  |                                                                              |        |                                     |  |
| 1295                           | 3.5-4          |                 |              |                                                                  |                                                                              |        |                                     |  |
| 4                              |                |                 |              |                                                                  |                                                                              |        |                                     |  |
| 5                              |                |                 |              | 0                                                                | 0-46" SAA, wet w 28"                                                         |        |                                     |  |
| 6                              |                |                 |              |                                                                  | 46"-60" moist, orange/light gray<br>mottled & SAND,<br>some silt, trace clay | III    |                                     |  |
| 7                              |                |                 |              |                                                                  |                                                                              |        |                                     |  |
| 1300                           | 7.5-8          |                 |              |                                                                  |                                                                              |        |                                     |  |
| 8                              |                |                 |              |                                                                  |                                                                              |        |                                     |  |
| 9                              |                |                 |              |                                                                  |                                                                              |        |                                     |  |
| 10                             |                |                 |              |                                                                  | end of boring                                                                |        |                                     |  |
| Remarks:                       |                |                 |              |                                                                  |                                                                              |        |                                     |  |
| Sample Types                   |                |                 |              | Consistency vs. Blowcount / Foot                                 |                                                                              |        |                                     |  |
| S - Split-Spoon                |                |                 |              | Granular (Sand & Gravel)                                         |                                                                              |        |                                     |  |
| U - Undisturbed Tube           |                |                 |              | Fine Grained (Silt & Clay)                                       |                                                                              |        |                                     |  |
| C - Rock Core                  |                |                 |              | V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-16               |                                                                              |        |                                     |  |
| A - Auger Cuttings             |                |                 |              | Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30              |                                                                              |        |                                     |  |
|                                |                |                 |              | M. Dense: 10-30 M. Stiff: 4-8 Hard: >30                          |                                                                              |        |                                     |  |
|                                |                |                 |              | end - 35-50%<br>some - 20-35%<br>little - 10-20%<br>trace - <10% |                                                                              |        |                                     |  |
|                                |                |                 |              | moisture, density, color, gradation                              |                                                                              |        |                                     |  |

## Soil Boring Log

|                                      |                                                     |                                     |
|--------------------------------------|-----------------------------------------------------|-------------------------------------|
| CLIENT: <u>USACE</u>                 | INSPECTOR: <u>CW</u>                                | BORING/WELL ID: <u>PAR-57-58-33</u> |
| PROJECT NAME: <u>FTMM - ECP</u>      | DRILLER: <u>JB</u>                                  | LOCATION DESCRIPTION                |
| PROJECT LOCATION: <u>FTMM Parcel</u> | WEATHER: <u>65°F</u>                                |                                     |
| PROJECT NUMBER: <u>748810-</u>       | CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u> |                                     |
| GROUNDWATER OBSERVATIONS             | RIG TYPE: <u>Geoprobe(R) 7822DT</u>                 | LOCATION PLAN                       |
| WATER LEVEL: <u>~ 6/22/16</u>        | DATE/TIME START: <u>4/22/16</u>                     | Oceanport, New Jersey               |
| DATE: <u>4/22/16</u>                 | DATE/TIME FINISH: <u>4/22/16</u>                    |                                     |
| TIME:                                | WEIGHT OF HAMMER: <u>N/A</u>                        |                                     |
| MEAS. FROM:                          | DROP OF HAMMER: <u>N/A</u>                          |                                     |
|                                      | TYPE OF HAMMER: <u>N/A</u>                          |                                     |

| DEPTH<br>(feet) | SAMPLE<br>I.D. | BLOWS<br>per 6" | ADV/<br>REC. | PID<br>(ppm) | FIELD IDENTIFICATION OF MATERIAL                                    | STRATA | COMMENTS |
|-----------------|----------------|-----------------|--------------|--------------|---------------------------------------------------------------------|--------|----------|
| 0               |                |                 | 60/100       | 0            | 0-6" Asphalt & Millings                                             |        |          |
| 100             | 0.5-1          |                 |              |              | 6-30" Brown, m. dense, mt-<br>SAND, little f. gravel<br>trace silt  | I      |          |
| 1               |                |                 |              |              | 30"-60" moist, light brown/light orange<br>MC SAND, little silt     | III    |          |
| 2               |                |                 |              |              |                                                                     |        |          |
| 3               |                |                 |              |              |                                                                     |        |          |
| 105             | 3.5-4          |                 |              |              |                                                                     |        |          |
| 4               |                |                 |              |              |                                                                     |        |          |
| 5               |                |                 | 60/60        | 0            | 0-13" SAA                                                           |        |          |
| 6               |                |                 |              |              | 13-60" saturated, light brown/light<br>MC SAND, little mt<br>gravel | III    |          |
| 7               |                |                 |              |              |                                                                     |        |          |
| 110             | 7.5-8          |                 |              |              |                                                                     |        |          |
| 8               |                |                 |              |              |                                                                     |        |          |
| 9               |                |                 |              |              |                                                                     |        |          |
| 10              |                |                 |              |              |                                                                     |        |          |
| 11              |                |                 |              |              |                                                                     |        |          |
| 12              |                |                 |              |              |                                                                     |        |          |
| 13              |                |                 |              |              |                                                                     |        |          |
| 14              |                |                 |              |              |                                                                     |        |          |
| 15              |                |                 |              |              |                                                                     |        |          |
| 16              |                |                 |              |              |                                                                     |        |          |
| 17              |                |                 |              |              |                                                                     |        |          |
| 18              |                |                 |              |              |                                                                     |        |          |
| 19              |                |                 |              |              |                                                                     |        |          |
| 20              |                |                 |              |              |                                                                     |        |          |
| 21              |                |                 |              |              |                                                                     |        |          |
| 22              |                |                 |              |              |                                                                     |        |          |
| 23              |                |                 |              |              |                                                                     |        |          |
| 24              |                |                 |              |              |                                                                     |        |          |
| 25              |                |                 |              |              |                                                                     |        |          |
| 26              |                |                 |              |              |                                                                     |        |          |
| 27              |                |                 |              |              |                                                                     |        |          |
| 28              |                |                 |              |              |                                                                     |        |          |
| 29              |                |                 |              |              |                                                                     |        |          |
| 30              |                |                 |              |              |                                                                     |        |          |
| 31              |                |                 |              |              |                                                                     |        |          |
| 32              |                |                 |              |              |                                                                     |        |          |
| 33              |                |                 |              |              |                                                                     |        |          |
| 34              |                |                 |              |              |                                                                     |        |          |
| 35              |                |                 |              |              |                                                                     |        |          |
| 36              |                |                 |              |              |                                                                     |        |          |
| 37              |                |                 |              |              |                                                                     |        |          |
| 38              |                |                 |              |              |                                                                     |        |          |
| 39              |                |                 |              |              |                                                                     |        |          |
| 40              |                |                 |              |              |                                                                     |        |          |
| 41              |                |                 |              |              |                                                                     |        |          |
| 42              |                |                 |              |              |                                                                     |        |          |
| 43              |                |                 |              |              |                                                                     |        |          |
| 44              |                |                 |              |              |                                                                     |        |          |
| 45              |                |                 |              |              |                                                                     |        |          |
| 46              |                |                 |              |              |                                                                     |        |          |
| 47              |                |                 |              |              |                                                                     |        |          |
| 48              |                |                 |              |              |                                                                     |        |          |
| 49              |                |                 |              |              |                                                                     |        |          |
| 50              |                |                 |              |              |                                                                     |        |          |
| 51              |                |                 |              |              |                                                                     |        |          |
| 52              |                |                 |              |              |                                                                     |        |          |
| 53              |                |                 |              |              |                                                                     |        |          |
| 54              |                |                 |              |              |                                                                     |        |          |
| 55              |                |                 |              |              |                                                                     |        |          |
| 56              |                |                 |              |              |                                                                     |        |          |
| 57              |                |                 |              |              |                                                                     |        |          |
| 58              |                |                 |              |              |                                                                     |        |          |
| 59              |                |                 |              |              |                                                                     |        |          |
| 60              |                |                 |              |              |                                                                     |        |          |
| 61              |                |                 |              |              |                                                                     |        |          |
| 62              |                |                 |              |              |                                                                     |        |          |
| 63              |                |                 |              |              |                                                                     |        |          |
| 64              |                |                 |              |              |                                                                     |        |          |
| 65              |                |                 |              |              |                                                                     |        |          |
| 66              |                |                 |              |              |                                                                     |        |          |
| 67              |                |                 |              |              |                                                                     |        |          |
| 68              |                |                 |              |              |                                                                     |        |          |
| 69              |                |                 |              |              |                                                                     |        |          |
| 70              |                |                 |              |              |                                                                     |        |          |
| 71              |                |                 |              |              |                                                                     |        |          |
| 72              |                |                 |              |              |                                                                     |        |          |
| 73              |                |                 |              |              |                                                                     |        |          |
| 74              |                |                 |              |              |                                                                     |        |          |
| 75              |                |                 |              |              |                                                                     |        |          |
| 76              |                |                 |              |              |                                                                     |        |          |
| 77              |                |                 |              |              |                                                                     |        |          |
| 78              |                |                 |              |              |                                                                     |        |          |
| 79              |                |                 |              |              |                                                                     |        |          |
| 80              |                |                 |              |              |                                                                     |        |          |
| 81              |                |                 |              |              |                                                                     |        |          |
| 82              |                |                 |              |              |                                                                     |        |          |
| 83              |                |                 |              |              |                                                                     |        |          |
| 84              |                |                 |              |              |                                                                     |        |          |
| 85              |                |                 |              |              |                                                                     |        |          |
| 86              |                |                 |              |              |                                                                     |        |          |
| 87              |                |                 |              |              |                                                                     |        |          |
| 88              |                |                 |              |              |                                                                     |        |          |
| 89              |                |                 |              |              |                                                                     |        |          |
| 90              |                |                 |              |              |                                                                     |        |          |
| 91              |                |                 |              |              |                                                                     |        |          |
| 92              |                |                 |              |              |                                                                     |        |          |
| 93              |                |                 |              |              |                                                                     |        |          |
| 94              |                |                 |              |              |                                                                     |        |          |
| 95              |                |                 |              |              |                                                                     |        |          |
| 96              |                |                 |              |              |                                                                     |        |          |
| 97              |                |                 |              |              |                                                                     |        |          |
| 98              |                |                 |              |              |                                                                     |        |          |
| 99              |                |                 |              |              |                                                                     |        |          |
| 100             |                |                 |              |              |                                                                     |        |          |

Remarks:

## Sample Types

S - Split-Spoon  
 U - Undisturbed Tube  
 C - Rock Core  
 A - Auger Cuttings

## Consistency vs. Blowcount / Foot

| Granular (Sand & Gravel) |               | Fine Grained (Silt & Clay) |                 |
|--------------------------|---------------|----------------------------|-----------------|
| V. Loose: 0-4            | Dense: 30-50  | V. Soft: <2                | Stiff: 8-15     |
| Loose: 4-10              | V. Dense: >50 | Soft: 2-4                  | V. Stiff: 15-30 |
| M. Dense: 10-30          |               | M. Stiff: 4-8              | Hard: >30       |

and - 35-50%  
 some - 20-35%  
 little - 10-20%  
 trace - <10%

moisture, density, color, gradation

## Soil Boring Log

|                               |  |  |  |  |                                              |  |                                     |  |
|-------------------------------|--|--|--|--|----------------------------------------------|--|-------------------------------------|--|
| CLIENT: USACE                 |  |  |  |  | INSPECTOR: <u>CW</u>                         |  | BORING/WELL ID: <u>PAR-57-SB-34</u> |  |
| PROJECT NAME: FTMM - ECP      |  |  |  |  | DRILLER: <u>JB</u>                           |  | LOCATION DESCRIPTION                |  |
| PROJECT LOCATION: FTMM Parcel |  |  |  |  | WEATHER: <u>65°F</u>                         |  | <u>Parcel 57</u>                    |  |
| PROJECT NUMBER: 748810-       |  |  |  |  | CONTRACTOR: East Coast Drilling, Inc. (ECDI) |  |                                     |  |
| GROUNDWATER OBSERVATIONS      |  |  |  |  | RIG TYPE: Geoprobe(R) 7822DT                 |  | LOCATION PLAN                       |  |
| WATER LEVEL: <u>~6.5</u>      |  |  |  |  | DATE/TIME START: <u>4/22/16</u>              |  | Oceanport, New Jersey               |  |
| DATE: <u>4/22/16</u>          |  |  |  |  | DATE/TIME FINISH: <u>4/22/16</u>             |  |                                     |  |
| TIME:                         |  |  |  |  | WEIGHT OF HAMMER: N/A                        |  |                                     |  |
| MEAS. FROM:                   |  |  |  |  | DROP OF HAMMER: N/A                          |  |                                     |  |
|                               |  |  |  |  | TYPE OF HAMMER: N/A                          |  |                                     |  |

| DEPTH<br>(feet) | SAMPLE<br>I.D. | BLOWS<br>per 6" | ADV/<br>REC | PID<br>(ppm) | FIELD IDENTIFICATION OF MATERIAL                                                 | STRATA | COMMENTS |
|-----------------|----------------|-----------------|-------------|--------------|----------------------------------------------------------------------------------|--------|----------|
| 0               |                |                 | 60/60       | 0            | 0-6" Asphalt & millings                                                          |        |          |
| 1025            | 0.5-1          |                 |             |              | 6"-25" Brown, mt SAND, some<br>Rock frags, little silt                           | I      |          |
| 1               |                |                 |             |              |                                                                                  |        |          |
| 2               |                |                 |             |              | 25-60" Brown-light orange, mt<br>SAND, little Rock<br>FRAGS, little silt, little | III    |          |
| 3               |                |                 |             |              |                                                                                  |        |          |
| 1030            | 3.5-4          |                 |             |              |                                                                                  |        |          |
| 4               |                |                 |             |              |                                                                                  |        |          |
| 5               |                |                 | 60/60       | 0            | 0-20" SAND                                                                       |        |          |
| 6               |                |                 |             |              | 20"-60" Wet, light brown/brown<br>MC SAND, trace<br>silt                         | III    |          |
| 7               |                |                 |             |              |                                                                                  |        |          |
| 1035            | 7.5-8          |                 |             |              |                                                                                  |        |          |
| 8               |                |                 |             |              |                                                                                  |        |          |
| 9               |                |                 |             |              |                                                                                  |        |          |
| 10              |                |                 |             |              | end of boring                                                                    |        |          |

Remarks:

| Sample Types         | Consistency vs. Blowcount / Foot |               |                            |                 |                                     |
|----------------------|----------------------------------|---------------|----------------------------|-----------------|-------------------------------------|
| S - Split-Spoon      | Granular (Sand & Gravel)         |               | Fine Grained (Silt & Clay) |                 |                                     |
| U - Undisturbed Tube | V. Loose: 0-4                    | Dense: 30-50  | V. Soft: <2                | Stiff: 8-15     | end - 35-50%                        |
| C - Rock Core        | Loose: 4-10                      | V. Dense: >50 | Soft: 2-4                  | V. Stiff: 15-30 | some - 20-35%                       |
| A - Auger Cuttings   | M. Dense: 10-30                  |               | M. Stiff: 4-8              | Hard: >30       | little - 10-20%                     |
|                      |                                  |               |                            |                 | trace - <10%                        |
|                      |                                  |               |                            |                 | moisture, density, color, gradation |

## Soil Boring Log

|                               |                                              |                                     |
|-------------------------------|----------------------------------------------|-------------------------------------|
| CLIENT: USACE                 | INSPECTOR: <u>EW</u>                         | BORING/WELL ID: <u>PAF-57-SB-35</u> |
| PROJECT NAME: FTMM - ECP      | DRILLER: <u>JB</u>                           | LOCATION DESCRIPTION                |
| PROJECT LOCATION: FTMM Parcel | WEATHER: <u>75°F</u>                         | <u>Parcel 57</u>                    |
| PROJECT NUMBER: 748810-       | CONTRACTOR: East Coast Drilling, Inc. (ECDI) |                                     |
| GROUNDWATER OBSERVATIONS      | RIG TYPE: Geoprobe(R) 78220T                 | LOCATION PLAN                       |
| WATER LEVEL: <u>25</u>        | DATE/TIME START: <u>4/22/16</u>              | Oceanport, New Jersey               |
| DATE: <u>4/22/16</u>          | DATE/TIME FINISH: <u>4/22/16</u>             |                                     |
| TIME:                         | WEIGHT OF HAMMER: <u>N/A</u>                 |                                     |
| MEAS. FROM:                   | DROP OF HAMMER: <u>N/A</u>                   |                                     |
|                               | TYPE OF HAMMER: <u>N/A</u>                   |                                     |

| DEPTH<br>(feet) | SAMPLE<br>I.D. | BLOWS<br>per 6" | ADV/<br>REC. | PID<br>(ppm) | FIELD IDENTIFICATION OF MATERIAL                  | STRATA | COMMENTS |
|-----------------|----------------|-----------------|--------------|--------------|---------------------------------------------------|--------|----------|
| 0               |                |                 |              | 0            | 0-6"                                              | I      |          |
| 1330            | 0.5-1          |                 |              | 1            | 6-60" moist, orange-brown,<br>MC SAND, trace silt |        |          |
| 1               |                |                 |              |              |                                                   |        |          |
| 2               |                |                 |              |              |                                                   | II     |          |
| 3               |                |                 |              |              |                                                   |        |          |
| 1335            | 3.5-4          |                 |              |              |                                                   |        |          |
| 4               |                |                 |              |              |                                                   |        |          |
| 5               |                |                 |              | 0            | 0-30" saturated, SAND                             |        |          |
| 6               |                |                 |              |              | 30-60" wet, gray/brown, MC<br>SAND, trace silt    | II     |          |
| 7               |                |                 |              |              |                                                   |        |          |
| 1340            | 7.5-8          |                 |              |              |                                                   |        |          |
| 8               |                |                 |              |              |                                                   |        |          |
| 9               |                |                 |              |              |                                                   |        |          |
| 10              |                |                 |              |              | end of boring                                     |        |          |

Remarks:

| Sample Types         | Consistency vs. Blowcount / Foot |               |                            |                                                                                                         |
|----------------------|----------------------------------|---------------|----------------------------|---------------------------------------------------------------------------------------------------------|
| S - Split-Spoon      | Granular (Sand & Gravel)         |               | Fine Grained (Silt & Clay) |                                                                                                         |
| U - Undisturbed Tube | V. Loose: 0-4                    | Dense: 30-50  | V. Soft: <2                | Stiff: 8-16                                                                                             |
| C - Rock Core        | Loose: 4-10                      | V. Dense: >50 | Soft: 2-4                  | V. Stiff: 15-30                                                                                         |
| A - Auger Cuttings   | M. Dense: 10-30                  |               | M. Stiff: 4-8              | Hard: >30                                                                                               |
|                      |                                  |               |                            | and - 35-50%<br>some - 20-35%<br>little - 10-20%<br>trace - <10%<br>moisture, density, color, gradation |