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

May 7, 2015

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

Re: Request for No Further Action at Parcel 39
Fort Monmouth, New Jersey

Attachments:

A. Figure 1.6 Layout of Parcel 39
B. Table 1 Soil Sampling Results Parcel 39

Previous Correspondence and Reports:

1. U.S. Army letter to NJDEP dated January 31, 2013, re: *NJDEP's Response to Army Correspondence (Dated March 16, 2012).*
2. NJDEP letter to the U.S. Army dated August 27, 2012, re: *Revised Baseline Ecological Evaluation Report, Dated May 2012, Fort Monmouth Main Post and Charles Wood Area.*
3. NJDEP letter to the U.S. Army dated July 10, 2012, re: *March 2012 Army Response to NJDEP Correspondence Letter Dated October 28, 2008.*
4. U.S. Army letter to NJDEP dated March 16, 2012, re: *Army's Response to NJDEP Correspondence (Dated October 28, 2008), Draft Site Investigation.*
5. NJDEP letter to the U.S. Army dated October 28, 2008, re: *Draft Site Investigation Report.*
6. U.S. Army BRAC, July 2008, *US ARMY BRAC 2005 Site Investigation Report, Fort Monmouth*

Dear Ms. Range:

In response to the New Jersey Department of Environmental Protection (NJDEP) letter to the U.S. Army (Army) dated July 10, 2012 regarding the Parcel 39 results presented in the July 2008 Site Investigation (SI) Report, the U.S. Army Fort Monmouth (FTMM) and Parsons has reviewed existing soil data collected within Environmental Condition of Property (ECP) Parcel 39. The purpose of this letter is to present a comparison of the soil sampling results (as per NJDEP request) with the current Residential Direct Contact Soil Remediation Standards

(RDCSRS) and provide support that a No Further Action (NFA) be issued for Parcel 39. This letter report serves as an addendum to the previously submitted 2008 Site Investigation Report.

Parcel 39 includes Building 1150 (Vail Hall) and is located in the southwestern portion of the Main Post. This parcel encompasses the area between Building 1150 (Vail Hall) and Mill Creek (**Figure 1.6**). Vail Hall was most recently used for administrative purposes, and is currently vacant. Within the basement is a large uninterruptible power supply room, emergency generator, floor drains, and a sump pump strictly for high water table events (discharges to basin behind building and ultimately to Mill Creek). Film developing activities formerly occurred in the basement of the building (U.S. Army BRAC, July 2008).

In December 2007, the SI was completed to determine the impacts of Building 1150 operations on soil and sediment at potential discharge locations along Mill Creek (U.S. Army BRAC, 2008). The investigation included the collection of one surface soil sample and four sediment samples at two locations using a hand auger. Soil and sediment samples were analyzed for TCL + TICs (without pesticides) and TAL metals. The locations of the samples are shown on **Figure 1.6.** The historical analytical data for Parcel 39 is presented in the July 2008 SI Report.

Soil Investigation: Four PAHs and eighteen metals were detected at concentrations below then-current NJDEP Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) (U.S. Army BRAC, July 2008) in soil sample P39-SS1. A NFA determination was requested for surface soil at Parcel 39 in the 2008 SI Report. In the NJDEP comment letter on the SI Report to the Army dated October 28, 2008, the NJDEP requested that the Army compare the detections to the then-current RDCSCC and if necessary prepare a deed notice for Parcel 39. This letter report addendum presents a comparison of the detections in soil to the now-current RDCSRS (**Table 1**). The detections in soil are all below the RDCSRS as shown on **Table 1**. Thus, the results continue to support the initial request for a NFA be issued for Parcel 39 and, because the detections are all below the RDCSRS, a deed notice is not warranted for this parcel.

Sediment Investigation: Sediment samples were collected within Mill Creek as part of the SI. Based on the SI comment letter dated July 10, 2012 the NJDEP concurred with the recommendations to further evaluate sediments at the ECP Parcels including Parcel 39 as part of a facility-wide baseline ecological evaluation. The Baseline Ecological Evaluation (BEE) report identified that 1) constituents in sediment at Parcel 39 are unlikely to have a deleterious effect on sensitive ecological receptors or habitats, 2) the potential for ecological risk is considered low, and 3) additional ecological assessments at Parcel 39 were not warranted (Shaw, 2012). The NJDEP has accepted the May 2012 BEE report's recommendations and conclusions and concurs that no further evaluation of ecological risk is required (NJDEP letter dated August 27, 2012).

In summary, we request No Further Action for Parcel 39. Should you have any questions or

require additional information, please contact me at (732) 380-7064 or by email at wanda.s.green2.civ@mail.mil.

Sincerely,

Wanda Green

Wanda Green
BRAC Environmental Coordinator

cc: Delight Balducci, HQDA ACSIM
Joseph Pearson, Calibre
James Moore, USACE
Cris Grill, Parsons

TABLES

Soil Sampling Results Parcel 39

TABLE 1
SOIL SAMPLING RESULTS
PARCEL 39
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	P39-SS1
Sample ID		PARCEL 39-SS-P39-SS1-0.0-0.5
Sample Date		1/8/2008
Semivolatile Organic Compounds (mg/kg)		
Bis(2-Ethylhexyl)phthalate	35	**0.57 J**
Di-n-butylphthalate	6,100	**0.78 J**
Fluoranthene	2,300	**0.12 J**
Pyrene	1,700	**0.29 J**
Inorganics (mg/kg)		
Aluminum	78,000	**7,450 B**
Arsenic	19	**3.43**
Barium	16,000	**50.6 B**
Beryllium	16	**1.78**
Cadmium	78	**1.56**
Calcium	NLE	**1,480 B**
Chromium	NLE	**94**
Cobalt	1,600	**31.9**
Copper	3,100	**27.7 B**
Iron	NLE	**26,400**
Lead	400	**80**
Magnesium	NLE	**3,000**
Manganese	11,000	**15.9**
Mercury	23	**0.21**
Nickel	1,600	**22.1**
Potassium	NLE	**7,170**
Vanadium	78	**41.8**
Zinc	23,000	**140 B**

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others. Addiotnal information on the above data refer to US ARMY BRAC 2005, Site Investigation Report, Fort Monmouth, July 2008.
2) NLE = no limit established.

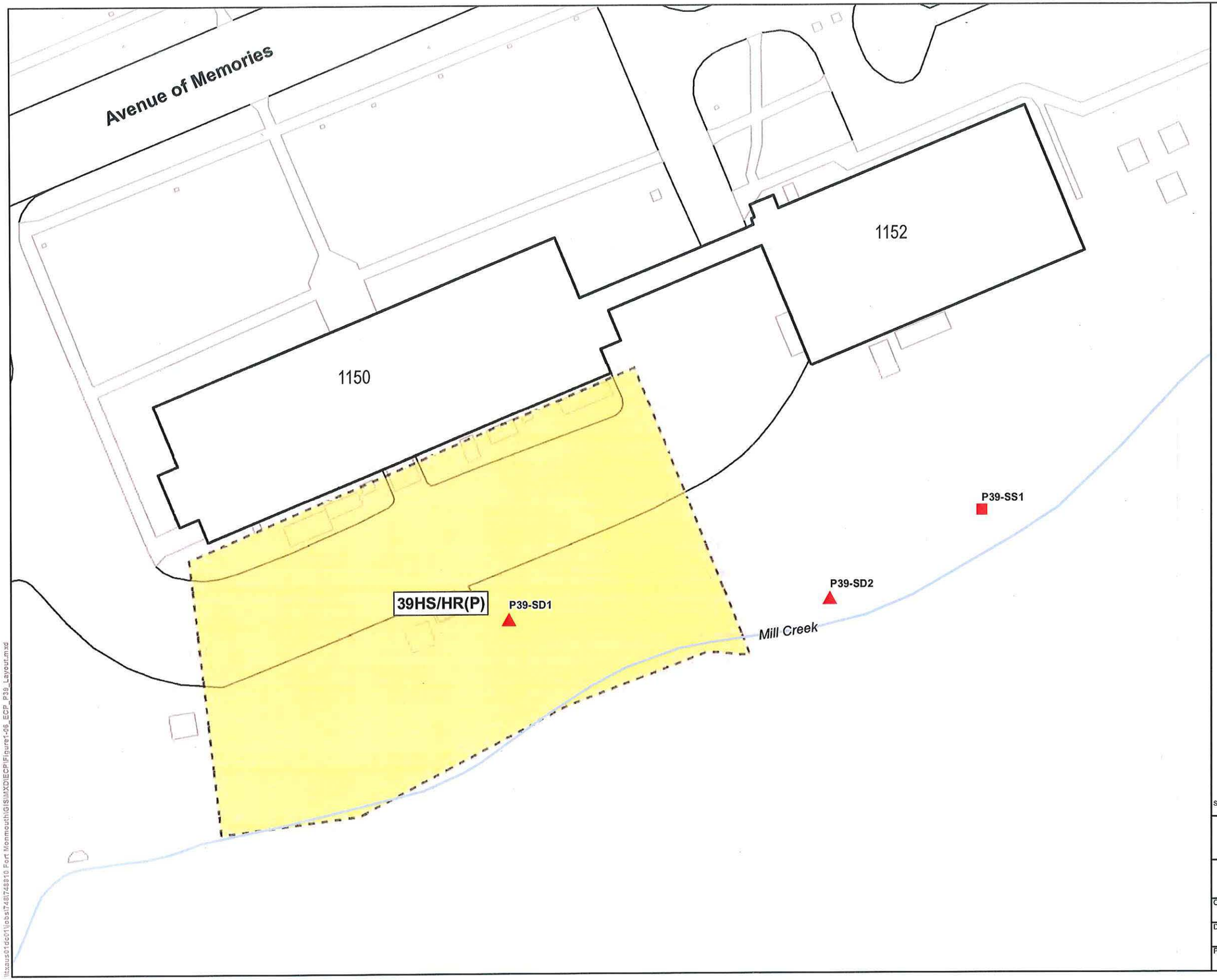
3) Chemical result qualifiers are assigned by the laboratory and is typically evaluated and modified (if necessary) by during data validation.
[blank] = detect, i.e. detected chemical result value.
B = Compound detected in the sample and its associated blank sample.
R = Rejected, data validation rejected the results.
U = non-detect, i.e. not detected equal to or above this value.
U-DL = Elevated sample detection limit due to difficult sample matrix.
U-ND = Analyte not detected in sample, but no detection or reporting limit provided.
J = estimated (detect or non-detect) value.
E (or ER) = Estimated result.
D = Results from dilution of sample.
J-DL = Elevated sample detection limit due to difficult sample matrix.
JN = Tentatively identified compound, estimated concentration.

4) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.
- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

5) Criteria action level source document and web address.
- 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

FIGURES

Layout of Parcel 39



Legend

- Historic Surface Soil Sample Location
- Historic Sediment Sample Location
- Parcel 39 Boundary
- Surface Water Feature

BRAC Parcel Label Definitions

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

N

1 inch = 40 feet

0 50 100 Feet

Source: FTMM Supplied CAD, 2013; U.S. Army BRAC, 2008; 2008 SI Report; USGS NHD, 2012.

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
Layout of Parcel 39	
CREATED BY: TS	REVIEWED BY: RF
DATE: December 2014	FIGURE NUMBER: Figure 1.6
PROJECT NUMBER: 748810.01000	FILE: Figure1-06_ECP_P39_Layout.mxd

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