

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.

Documents:

• "Letter Work Plan for FTMM-08 Boring 10 Area, Fort Monmouth, New Jersey" (2 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		presentative Last Name:					
Title: Fort Monmouth BRAC Environmental Coordinate	tor (BEC))					
Phone Number: (732) 380-7064	Ext:	F	ax:				
Mailing Address: P.O. Box 148							
City/Town: Oceanport	State:	NJ Z	ip Code: _0775	7			
Email Address: william.r.colvin18.civ@mail.mil							
This certification shall be signed by the person responsible							
in accordance with Administrative Requirements for the	Remedia	ition of Contaminated Site	s 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: William R. Colvin, PMP, CHMM, PG							
BRAC Environmental Coordinator							

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 (2nd 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

2 August 2017

Mr. Ashish Joshi Northern Bureau of Field Operations 7 Ridgedale Avenue Cedar Knolls, NJ 07927

SUBJECT: Letter Work Plan for FTMM-08 Boring 10 Area, Fort Monmouth, New Jersey

Figures:

Figure 1 - FTMM-08 Test Pit Delineation and Methane Gas Survey Results

Figure 2 - Landfill Delineation Project Log

Figure 3 - FTMM-08 Boring 10 Area Proposed Sample Locations

Tables:

Table 1 - Sampling Summary for the FTMM-08 Boring 10 Area Work Plan Fort Monmouth, New Jersey

Previous Correspondence:

- 1. NJDEP Letter to the Army dated 2 November 2016, re: Response to NJDEP's June 3, 2016 Comments on the April 2016 Final Remedial Investigation Report for FTMM-08 dated April 2016 (&Landfill Boundary Refinement for FTMM-08 dated January 2016) for Fort Monmouth, New Jersey
- 2. Army Letter to the NJDEP dated 11 October 2016, re: Response to NJDEP's June 3, 2016 Comments on the April 2016 Final Remedial Investigation Report for FTMM-08 dated April 2016 (&Landfill Boundary Refinement for FTMM-08 dated January 2016) for Fort Monmouth, New Jersey
- 3. NJDEP letter to the Army dated 3 June 2016, re: Final Remedial Investigation Report for FTMM-08 dated April 2016 (&Landfill Boundary Refinement for FTMM-08 dated January 2016).

Dear Mr. Joshi:

The purpose of this work plan is to address the New Jersey Department of Environmental Protection (NJDEP) comments dated 03 June 2016 on the FTMM-08 Landfill Boundary Refinement and Remedial Investigation/Feasibility Study (RI/FS) Reports, which included a question regarding additional characterization of potential petroleum contamination observed in landfill delineation Boring 10.

Boring 10 is located between the designated landfill areas for FTMM-08 and FTMM-18 (**Figure 1**). Evidence of petroleum in soil and groundwater was previously observed during delineation of the FTMM-08 landfill. Boring 10 was advanced in February 2009 with a hand auger and the log (**Figure 2**) reported petroleum odors and elevated photoionization detector (PID) readings in soil from 2 feet

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below ground surface (ft bgs) to 8 ft bgs, as well as a sheen on the groundwater observed at 3.5 ft bgs. The source of the petroleum hydrocarbons was unknown.

Two primary Geoprobe borings (M08B10-SB/GW-01 and M08B10-SB/GW-02) will be installed for supplemental characterization as shown on **Figure 3**. Boring M08B10-SB/GW-01 will be installed at the previous location of Boring 10, and M08B10-SB/GW-02 will be installed at an uphill location where the asphalt pavement from the Building 292 area discharges into the Parker Creek lowlands.

Each Geoprobe boring will be advanced to at least 4 feet below the water table (estimated at approximately 4 to 8 feet below ground surface) to assess current concentrations and vertical extent of petroleum hydrocarbons. Two groundwater samples will be collected from each temporary well within the Geoprobe location, and three soil samples will be collected from each boring:

- An upper soil sample will be collected from approximately 2.0-2.5 ft bgs (or another interval representative of the vadose zone);
- An intermediate sample will be collected near the water table, and
- A deeper sample will be collected from a 6-inch interval below the water table at a depth intended to be below the contaminated intermediate interval.

The upper and intermediate soil samples will be collected from the most contaminated intervals encountered based on field evidence (visual, olfactory, photoionization detector [PID] screening). If there is no field evidence of petroleum contamination, then samples will be collected from the upper (midpoint of the vadose zone), intermediate (water table), and deeper (3.5 ft below the water table) intervals.

If the primary borings exhibit field indications of petroleum contamination, then two additional contingency borings (M08B10-SB/GW-03 and M08B10-SB/GW-04) will be installed with the intent of bounding the horizontal extent of contamination.

Soil samples will be analyzed in accordance with the requirements for unknown petroleum hydrocarbons in Table 2-1 of the New Jersey Administrative Code (NJAC) 7:26E *Technical Requirements for Site Remediation*. Each soil sample will be analyzed for extractible petroleum hydrocarbons (EPH), and a minimum of 25 percent of the soil samples where EPH is detected will be analyzed for volatile organic compounds (VOCs) plus tentatively identified compounds (TICs), semivolatile organic compounds (SVOCs) plus TICs, polychlorinated biphenyls (PCBs), and Target Analyte List (TAL) metals. One soil sample from each boring will be selected to satisfy the 25 percent analyses for VOCs, SVOCs, PCBs and metals, and will be collected from either the sample with the greatest field indication of petroleum contamination, or from the intermediate depth sample location if there is no field evidence of contamination. The groundwater samples will be analyzed for VOCs plus TICs, SVOCs plus TICs, and TAL metals. A summary of the soil and groundwater sampling and analysis is presented in **Table 1**.

We look forward to your review of this proposed sampling plan, and approval or additional comments. The technical Point of Contact (POC) for this matter is Kent Friesen at (732) 383-7201 or by email at kent.friesen@parsons.com. Should you have any questions or require additional information, please contact me by phone at (732) 380-7064 or by email at william.r.colvin18.civ@mail.mil.

Mr. Ashish Joshi, NJDEP Letter Work Plan for FTMM-08 Boring 10 Area 2 August 2017 Page 3 of 3

Sincerely,

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

cc: Ashish Joshi (e-mail and 2 hard copies)

Joseph Pearson, Calibre (e-mail) James Moore, USACE (e-mail) Jim Kelly, USACE (e-mail) Cris Grill, Parsons (e-mail)

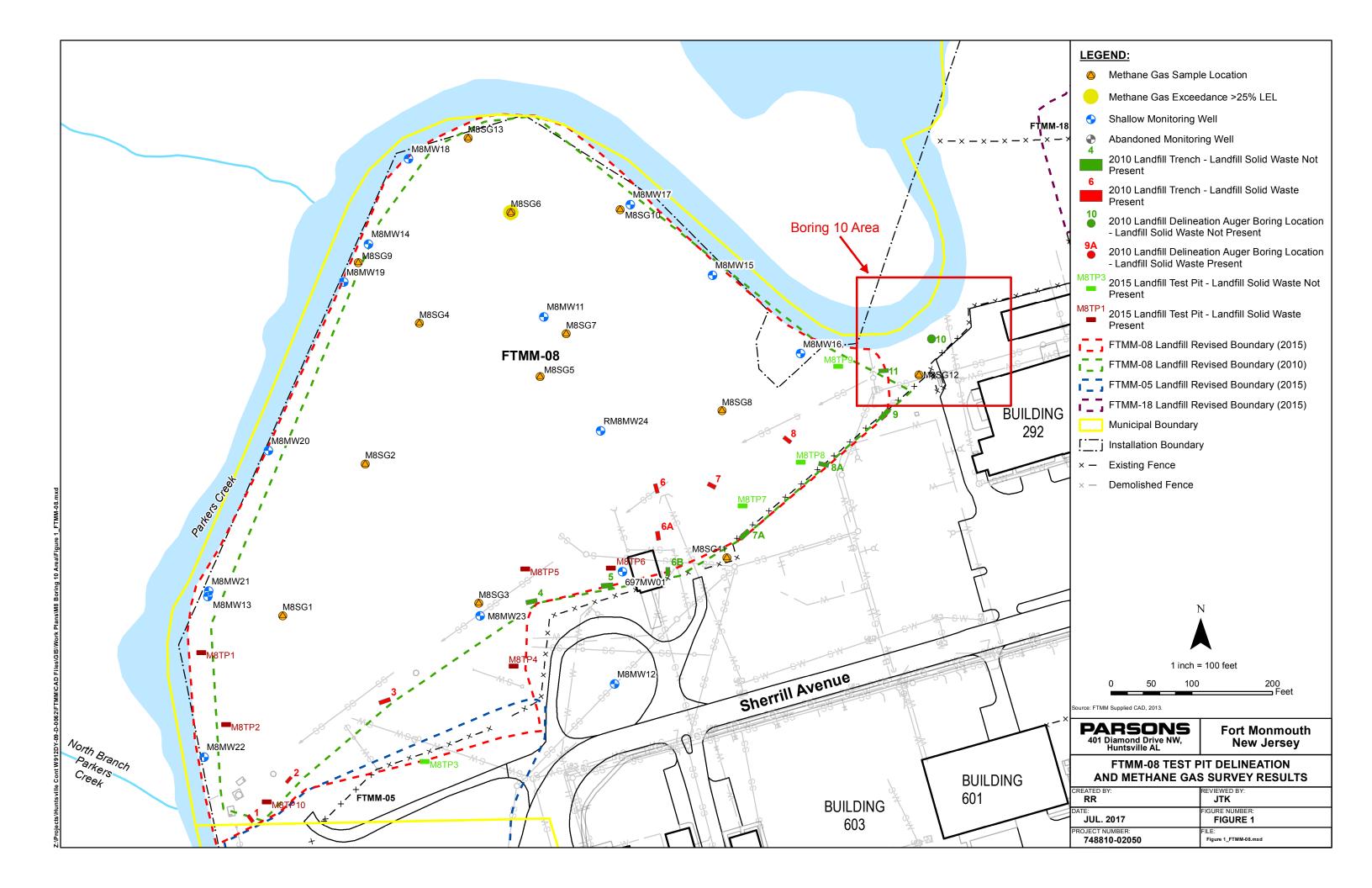


Figure 2 - Boring 10 Log

LANDFILL DELINEATION PROJECT LOG

SUBSURFACE	E EVALUATOR:		Harold	Hornun	g		
EQUIPMENT		Harold	Hornun	g			
DATE:	02/23/09						
LANDFILL:	M8	BORING II): <u> </u>	10			
BORING DESC	CRIPTION						
	ATERIAL PRESENT		YES	3	NO	X	
	ATERIAL PRESENT -2' BGS brown, silty						rong
	r and MultiRae read						
	with petroleum odo	or, GW enco	untered	d at 3.5	BGS	<u>, sheen o</u>	<u>bserved</u>
on water.							
GPS POSITION	NS						
Y COORDINATE	(NORTHING): <u>540333.6</u>	<u>14</u> X CC	ORDIN	ATE (EA	STING):618244.7	<u> 76</u>
BORING PHO	TOGRAPHED:	YES	<u>X</u>	NO			
PHOTOGRAPI	H INDENTIFICATIO	ON:	1440	1440			
NOTES <u>: Map</u>	color code = green						
SUBSURFACE	E EVALUATOR SIG	NATURE:_					

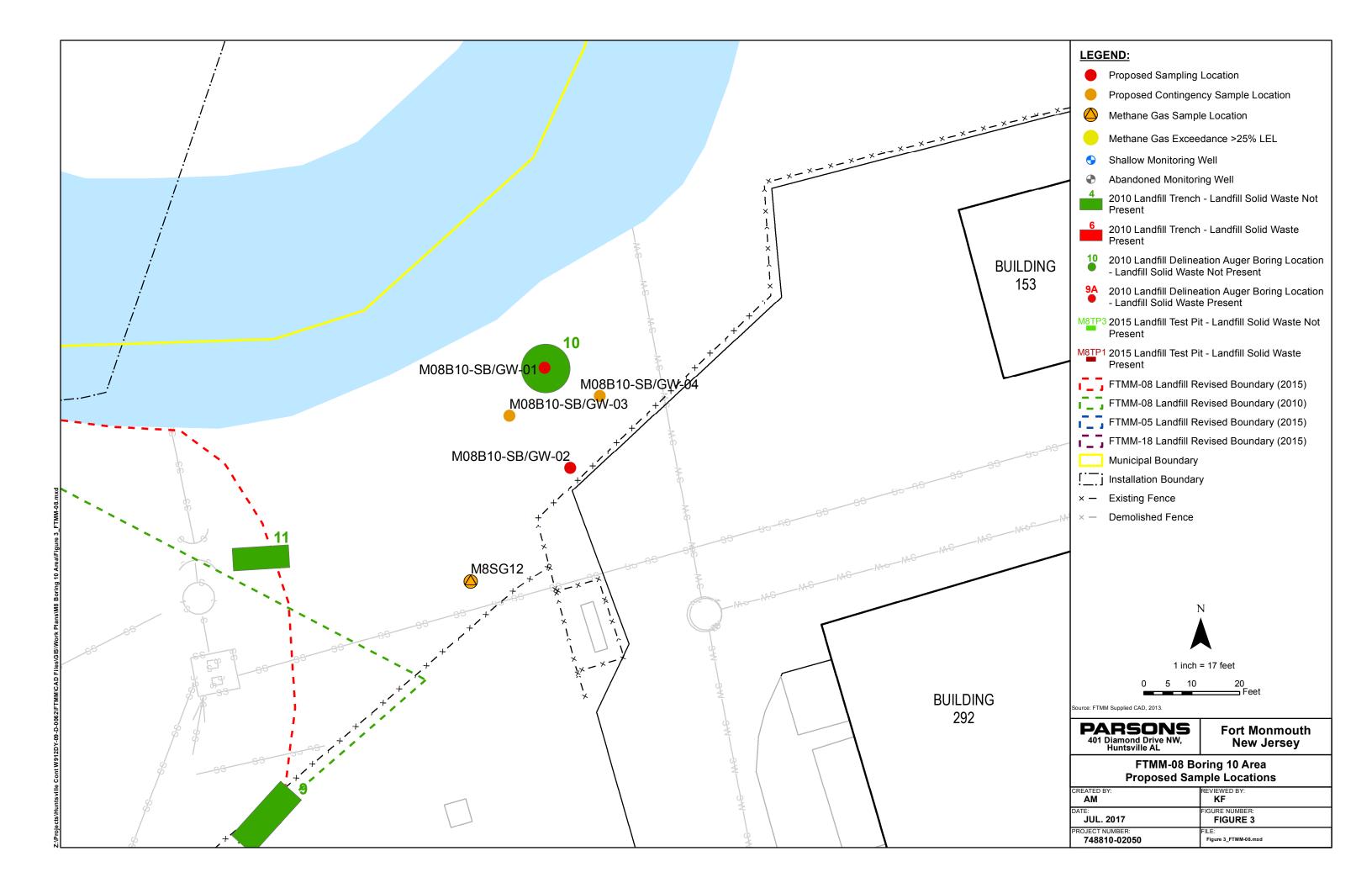


TABLE 1
SAMPLING SUMMARY FOR THE FTMM-08 BORING 10 AREA WORK PLAN
FORT MONMOUTH, NEW JERSEY

Site	Location	Field Meter Readings ^{a/}	Fractionated EPH ^{b/}	VOCs + TICs by Method 8260C ^{c/}	SVOCs + TICs by Method 8270C d/	TALMetals by Method 6010C e/	PCBs by Method 8081B ^{f/}
Soil							
Parcel 48 (M-8 Boring 10)	Primary Borings (Figure 3): 2 soil borings, 3 samples each.	2 borings	6	2	2	2	2
Parcel 48 (M-8 Boring 10)	Contingency Borings (Figure 3): 2 soil borings, 3 samples each.	2 borings	6	2	2	2	2
Groundwater							
Parcel 48 (M-8 Boring 10)	Primary Borings (Figure 3): 2 temporary wells, 1 sample each.	2 wells	0	2	2	2	0
Parcel 48 (M-8 Boring 10)	Contingency Borings (Figure 3): 2 temporary wells, 1 sample each.	2 wells	0	2	2	2	0
QA/QC samples (see SAP for	additional details) g/						
Field Duplicates (5% Sampling Frequency per media)		NA	1	1	1	1	1
Matrix Spike (5% Sampling Frequency per media)		NA	1	1	1	1	1
Matrix Spike Duplicate (5% Sampling Frequency per media)		NA	1	1	1	1	1
Trip Blank (1 per cooler of VOCs per media)		NA	0	1	0	0	0
QA Split (5% per media)		NA	1	1	1	1	1
Equipment Blank (5% Sampling Frequency per media)		NA	1	1	1	1	1
	TOTAL	NA	17	14	13	13	9

Notes:

NA = not applicable.

^{a/} Field meter readings include, in soil samples: photoionization detector (PID) readings along entire soil column; and in groundwater: PID headspace, pH, temperature, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity.

b/ EPH = extractable petroleum hydrocarbons.

^{c/} VOCs = volatile organic compounds; TICs = tentatively identified compounds.

d/ SVOCs = semivolatile organic compounds; TICs = tentatively identified compounds.

e/ TAL = Target Analyte List metals.

f/ PCBs = polychlorinated biphenyls.

^{g/} 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.