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.

Document: "Response to NJDEP Comments on Parcel 34- Revised LWPA"

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: BRAC Environmental Coordinator
Phone Number: (732) 380-7064 Ext: Fax:
Mailing Address: P.O. Box 148
City/Town: Oceanport State: NJ Zip Code: 07757
Email Address: william.r.colvin18.civ@mail.mil

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: William R Colvin Date: 8/04/2016

Name/Title: William R. Colvin / BRAC Environmental Coordinator

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

August 4, 2016

Ms. Linda Range
New Jersey Department of Environmental Protection
Bureau of Case Management
401 East State Street
PO Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028

SUBJECT: Revised Letter Work Plan Addendum for Parcel 34, Building 2567
Fort Monmouth, New Jersey

Dear Ms. Range:

The purpose of this Revised Letter Work Plan Addendum (RLWPA) is to address the NJDEP comments provided in your letter dated July 28, 2016 and to provide an overview of the revised LWPA for Parcel 34, Building 2567. As proposed in our July 7, 2016 LWPA, 4 additional borings (2 primary and 2 contingent) will be installed to support the supplemental environmental investigation of Parcel 34, Building 2567, located within Charles Wood Area (CWA) of Fort Monmouth (FTMM). Additional soil sampling as described in this LWPA will be performed to augment previous samples collected under the November 2015 Rev.1 Environmental Condition of Property (ECP) Work Plan Addendum (approved by NJDEP in Dec. 2015 letter). Additionally, grab groundwater samples will be collected to assess the groundwater condition in the western portion of the site if vadose zone soil samples indicate the need for groundwater sampling, as requested in your July 28, 2016 comment letter.

The ECP Work Plan Addendum (WPA) included four soil borings, PAR-34-SB-01, -SB-02, -SB-03, and -SB-04 collected at four of the highest soil benzene concentrations detected by Weston for a 1994 UST excavation as shown on **Figure B1**. Soil borings were advanced as described in the ECP-WPA. Based on the results, contaminants around the excavation area have been delineated both horizontally and vertically to the residential direct contact soil remediation standard (RDCSRS) with the exception of the northwestern corner near PAR-34-SB-01. PAR-34-SB-01 had a detection of benzene exceeding the RDCSRS at 6-6.5 feet below ground surface (bgs) (which is below the water table at this boring, as shown on the boring log provided in **Attachment 1**). In response to the NJDEP July 28, 2016 comments and to provide delineation of benzene, two primary soil borings (PAR-34-SB-05 and PAR-34-SB06) and three contingency borings (PAR-34-SB-07, PAR-34-SB08, and PAR-34-SB-09) are proposed and are shown on **Figure B1**. Up to 2 to 4 samples will be collected within each boring as described in **Table 1**. Primary samples will be run for VOC+TICs, and contingency samples will be extracted, held, and run for VOC+TICs pending results of the primary samples. Additionally, at borings PAR-34-SB-05 and PAR-34-SB06, grab groundwater samples will be collected using temporary wells.

Groundwater samples will be extracted, held, and run for VOCs+TICs pending results of the vadose zone soil samples.

We look forward to your review of this proposed RLWPA, and approval or additional comments. The technical Point of Contact (POC) for this matter is Cris Grill at (617) 449-1583 or by email at cris.grill@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.

Sincerely,

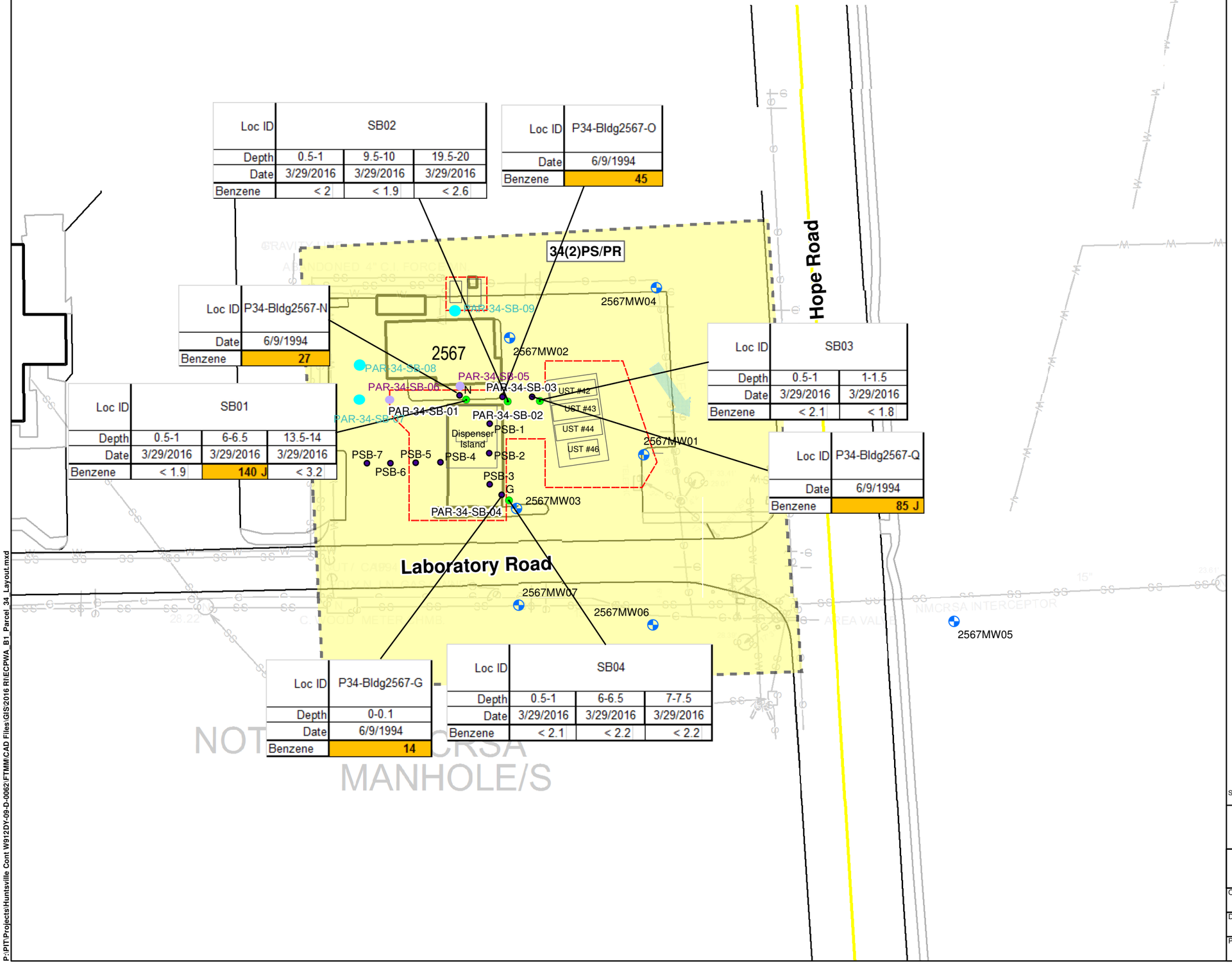
William R. Colvin, PMP, CHMM, PG
BRAC Environmental Coordinator

Attachments:

Figure B1 Layout of Parcel 34 (Building 2567) and Sampling Locations
Table 1 Sampling Summary for Parcel 34 Revised Letter Work Plan Addendum
Attachment 1 Boring Logs

cc: Linda Range, NJDEP (3 hard copies)
Delight Balducci, HQDA ACSIM (e-mail)
Joseph Pearson, Calibre (e-mail)
James Moore, USACE (e-mail)
Jim Kelly, USACE (e-mail)
Cris Grill, Parsons (e-mail)

FIGURE 1
Layout of Parcel 34 (Building 2567) and Sampling Locations



Loc ID	SB02		
Depth	0.5-1	9.5-10	19.5-20
Date	3/29/2016	3/29/2016	3/29/2016
Benzene	< 2	< 1.9	< 2.6

Loc ID	P34-Bldg2567-O
Date	6/9/1994
Benzene	45

Loc ID	P34-Bldg2567-N
Date	6/9/1994
Benzene	27

Loc ID	SB03	
Depth	0.5-1	1-1.5
Date	3/29/2016	3/29/2016
Benzene	< 2.1	< 1.8

Loc ID	SB01		
Depth	0.5-1	6-6.5	13.5-14
Date	3/29/2016	3/29/2016	3/29/2016
Benzene	< 1.9	140 J	< 3.2

Loc ID	P34-Bldg2567-Q
Date	6/9/1994
Benzene	85 J

Loc ID	P34-Bldg2567-G
Depth	0-0.1
Date	6/9/1994
Benzene	14

Loc ID	SB04		
Depth	0.5-1	6-6.5	7-7.5
Date	3/29/2016	3/29/2016	3/29/2016
Benzene	< 2.1	< 2.2	< 2.2

LEGEND:

- Surface/Subsurface Soil Sample Location (for analysis of VOCs) (2016)
- Historical Soil Sample (1993, 2013)
- Parcel 34 Boundary
- Shallow Monitoring Well
- Municipal Boundary
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Excavation
- Generalized Groundwater Flow Direction
- Proposed primary subsurface sampling location
- Proposed contingency subsurface sampling location

	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS
Benzene	2	5

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 = 50 feet

0 25 50 100 Feet

Source: FTMM Supplied CAD

PARSONS
401 Diamond Drive NW, Huntsville AL

Fort Monmouth New Jersey

LAYOUT OF PARCEL 34 (BUILDING 2567) AND SAMPLING LOCATIONS

CREATED BY:	REVIEWED BY:
RR	ME
DATE: MAY. 2016	FIGURE NUMBER: FIGURE B1
PROJECT NUMBER: 748810-01000	FILE: ECPWA_B1_Parcel_34_Layout.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2016 RI\ECPWA_B1_Parcel_34_Layout.mxd

TABLE 1
Sampling Summary for Parcel 34 Revised Letter Work Plan Addendum

TABLE 1
SAMPLING SUMMARY FOR PARCEL 34 REVISED LETTER WORK PLAN ADDENDUM
FORT MONMOUTH, NEW JERSEY

Site	Location	Field Meter Readings [a/]	VOC+TICs by EPA Method 8260C (including TBA)	Rationale
Soil				
Parcel 34	Primary Borings (Figure B1): 2 soil borings, 2-4 samples each.	2 borings	4-8	In borings PAR-34-SB-05 and PAR-34-SB06 (near borings PAR-34-SB-01 and Weston boring M respectively), samples will be collected at 1) the 6-6.5 feet interval (to correspond with contamination detected in PAR-34-SB-01), 2) the 6 inch interval above the water table, and if evidence of contamination is observed 3) at the most contaminated interval based on field observations/PID and 4) below any evidence of contamination
Parcel 34	Contingency Borings (Figure B1): 3 soil borings, 2-4 samples each.	3 borings	6-12	Samples will be collected from 1) the 6 inch interval above the water table, and 2) at 6-6.5 feet from the 3 contingency borings advanced outside of the excavation at locations PAR-34-SB-07 and PAR-34-SB08. Additionally, if evidence of contamination is observed when: 3) a sample will be collected at the most contaminated interval based on field observations/PID, and 4) a sample will be collected below any evidence of contamination.
Groundwater				
Parcel 34	Primary Borings (Figure B1): 2 temporary wells, 1 sample each.	2 borings/temporary wells	2	In borings PAR-34-SB-05 and PAR-34-SB06 (near borings PAR-34-SB-01 and Weston boring M respectively), grab groundwater samples will be collected.
QA/QC samples (see SAP for additional details) [b/]				
Field Duplicates (5% Sampling Frequency per media)		NA	1	
Matrix Spike (5% Sampling Frequency per media)		NA	1	
Matrix Spike Duplicate (5% Sampling Frequency per media)		NA	1	
Trip Blank (1 per cooler of VOCs per media)		NA	1	
QA Split (5% per media)		NA	1	
Equipment Blank (5% Sampling Frequency per media)		NA	1	
	TOTAL	**NA**	**18-28**	

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/] 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
BORING LOGS

PARSONS

Soil Boring Log

CLIENT: USACE
PROJECT NAME: FTMM - ECP
PROJECT LOCATION: FTMM Parcel
PROJECT NUMBER: 748810-

GROUNDWATER OBSERVATIONS
WATER LEVEL: ~4
DATE: 3/29/16
TIME: 0955
MEAS. FROM: BGS

INSPECTOR: CW, JM
DRILLER: JOE
WEATHER: 45°F clear
CONTRACTOR: East Coast Drilling, Inc. (ECDI)
RIG TYPE: Geoprobe(R) 7822DT
DATE/TIME START: 3/29/16 0950
DATE/TIME FINISH: 3/29/16 1005
WEIGHT OF HAMMER: N/A
DROP OF HAMMER: N/A
TYPE OF HAMMER: N/A

BORING/WELL ID: PAR-34-SB01
LOCATION DESCRIPTION: PARCEL 34
LOCATION PLAN: Oceanport, New Jersey

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0			60"/20"	20.8	0-2" concrete		
	0.5-1.0			22.9	2-20" grey/Brown, moist, mf SAND and f gravel, trace silt		slight ODor
1				12.6			
				N/A	20-60" No recovery		
2						II	
3							
							▽
4							
				↓			
5			60"/60	193	0-12" Saturated, grey, loose, Mf SAND, trace silt, trace f gravel		Strong ODOR
				211			
6	6.0-6.5			1601			
				975	12"-60" Saturated, grey, loose MF SAND, little silt	II	
7				320			
				12.4			
8				9.7			
				15.2			
9				3.5			
				2.2			
10							

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

PARSONS

Soil Boring Log

CLIENT: USACE
PROJECT NAME: FTMM - ECP
PROJECT LOCATION: FTMM Parcel
PROJECT NUMBER: 748810-

GROUNDWATER OBSERVATIONS
WATER LEVEL: ~4'
DATE: 3/29/16
TIME: 0955
MEAS. FROM: Bgs

INSPECTOR: CW/JM
DRILLER: JOE BARNAK
WEATHER: 45°F
CONTRACTOR: East Coast Drilling, Inc. (ECDI)
RIG TYPE: Geoprobe(R) 7822DT
DATE/TIME START: 3/29/16 0950
DATE/TIME FINISH: 3/29/16 1005
WEIGHT OF HAMMER: N/A
DROP OF HAMMER: N/A
TYPE OF HAMMER: N/A

BORING/WELL ID: PAR-34-SB-01
LOCATION DESCRIPTION: Parcel 34
LOCATION PLAN: Oceanport, New Jersey

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
10			60/50	32.1	0-10" No Recovery		Slight odor
				4.2	10"-33" wet, grey, loose, MF SAND, little silt		
11				2.1			
				9.8			
12				3.6	33"-60" wet, dense, dark grey F SAND AND SILT, Mica present	II	No odor
				2.1			
13				2.7			
	13.5-14			0			
14				0			
				0			
15					End of Boring @ 15'		
16							
17							
18							
19							
20							

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

PARSONS

Soil Boring Log

CLIENT: USACE
PROJECT NAME: FTMM - ECP
PROJECT LOCATION: FTMM Parcel
PROJECT NUMBER: 748810-

GROUNDWATER OBSERVATIONS
WATER LEVEL: ~4' BGS
DATE: 3/29/16
TIME: 0845
MEAS. FROM: BGS

INSPECTOR: CW/JM
DRILLER: JOE
WEATHER: 40°F clear
CONTRACTOR: East Coast Drilling, Inc. (ECDI)
RIG TYPE: Geoprobe(R) 7822DT
DATE/TIME START: 3/29/16 0835
DATE/TIME FINISH: 3/29/16 0930
WEIGHT OF HAMMER: N/A
DROP OF HAMMER: N/A
TYPE OF HAMMER: N/A

BORING/WELL ID: PAR-34-SB02
LOCATION DESCRIPTION: Parcel 34
LOCATION PLAN: Oceanport, New Jersey

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0	SS-SB02-0.5-1.0		60/12"	0	0-2" Concrete		
				236	2"-12" Grey, moist, MF SAND and MF gravel, trace silt		
1				N/A	12"-60" No Recovery		Slight odor
2							
3							▽
4							
5				2.8	0-14" saturated, grey, loose, MF SAND trace silt, trace F gravel		
				3.7			Slight odor
6				24.6	14"-60" Saturated, grey, loose, MF SAND, little silt	TT	
				68.7			
7				211			
				236			
8				186			
				199			
9				236			
	9.5-10.0			835			
10							

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

PARSONS

Soil Boring Log

CLIENT: USACE
PROJECT NAME: FTMM - ECP
PROJECT LOCATION: FTMM Parcel
PROJECT NUMBER: 748810

GROUNDWATER OBSERVATIONS
WATER LEVEL: ~4' Bgs
DATE: 3/29/16
TIME: 0845
MEAS. FROM: Bgs

INSPECTOR: CW/JM
DRILLER: SOE
WEATHER: 45°F clear
CONTRACTOR: East Coast Drilling, Inc. (ECDI)
RIG TYPE: Geoprobe(R) 7822DT
DATE/TIME START: 3/29/16 0835
DATE/TIME FINISH: 3/29/16 0938
WEIGHT OF HAMMER: N/A
DROP OF HAMMER: N/A
TYPE OF HAMMER: N/A

BORING/WELL ID: PAR-34-SB02
LOCATION DESCRIPTION: Parcel 34
LOCATION PLAN: Oceanport, New Jersey

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
1 0			60/42"	~~18~~	0-18" No Recovery		
				386	18"-26" wet, grey, loose, mf SAND, little silt		
1 1				397		II	Slight odor
				569	26"-60" wet, Dense, Dark grey f SAND and SILT, Mich present		
1 2				464			
				484			
1 3				501			
				687			
1 4				202			
				224			
1 5			60/48"	200	0-12" No Recovery		
				225	12-~~18~~" wet, Dense, Dark grey f SAND and SILT, Mich present		Slight odor
1 6				186		II	
				147	18-48" wet, Dense, Black f SAND and SILT, Mich present		
1 7				20.8			
				37.2			
1 8				2.2			
				8.7			No odor
1 9				0			
	19.5-20.0			0			
2 0					END of Boring @ 20'		

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

PARSONS

Soil Boring Log

CLIENT: USACE
PROJECT NAME: FTMM - ECP
PROJECT LOCATION: FTMM Parcel
PROJECT NUMBER: 748810-

GROUNDWATER OBSERVATIONS
WATER LEVEL: ~1.5'
DATE: 3/29/16
TIME: 1028
MEAS. FROM: BGS

INSPECTOR: CW / JM
DRILLER: JOE BARNAK
WEATHER: 45°F
CONTRACTOR: East Coast Drilling, Inc. (ECDI)
RIG TYPE: Geoprobe(R) 7822DT
DATE/TIME START: 3/29/16 1020
DATE/TIME FINISH: 3/29/16 1040
WEIGHT OF HAMMER: N/A
DROP OF HAMMER: N/A
TYPE OF HAMMER: N/A

BORING/WELL ID: PAR-34-SB-03
LOCATION DESCRIPTION: PARCEL 34
LOCATION PLAN: Oceanport, New Jersey

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0			60/37	0	0-3" Asphalt		
	0.5-1.0			0	3-18" Moist, ~~Medium~~ Brown, MF SAND, some F gravel		▽
1	1.0-1.5			0			
				0	18"-38" saturated, grey F gravel, some MF sand	II	
2				0			
				0			
3				0			
				0			
4				0			
				0			
5			60/54	0	0-6" No recovery		
				0	6"-17" saturated, grey F gravel, some MF SAND		
6				0			
				0	17"-45" wet, grey, loose, MF SAND, little silt	II	
7				0			
				0	45"-60" wet, dense, Black, F SAND and SILT, mica present		
8				0			
				0			
9				0			
				0			
10							

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

PARSONS

Soil Boring Log

CLIENT: USACE
PROJECT NAME: FTMM - ECP
PROJECT LOCATION: FTMM Parcel
PROJECT NUMBER: 748810-

GROUNDWATER OBSERVATIONS
WATER LEVEL: ~4.5'
DATE: 3/24/16
TIME: 1055
MEAS. FROM:

INSPECTOR: CW, JM
DRILLER: JOE BARNABE
WEATHER: 45°F clear
CONTRACTOR: East Coast Drilling, Inc. (ECDI)
RIG TYPE: Geoprobe(R) 7822DT
DATE/TIME START: 3/24/16 1050
DATE/TIME FINISH: 3/24/16 1110
WEIGHT OF HAMMER: N/A
DROP OF HAMMER: N/A
TYPE OF HAMMER: N/A

BORING/WELL ID: PAR-34-SB-04
LOCATION DESCRIPTION: PARCEL 34
LOCATION PLAN: Oceanport, New Jersey

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0			48/60	0	0-3" Asphalt		
	0.5-1.0			0	3"-16" Brown, moist, loose, mf SAND, trace f gravel		
1				0	16"-48" moist, loose, grey, mf SAND, little silt		
				0			
2				0	wet @ 42.5"	II	
				0			
3				0.8	48-60" No recovery		
				0.4			
4				NA			▽
				NA			
5			60/60	0	0-49" Saturated, grey, loose, MF SAND, little silt		
				0			
6	6-6.5			49.0	49"-60" Wet, Dark grey, M. Dense Fine SAND and SILT, mica present	II	
				0			
7	7-7.5			0			
				0			
8				0			
				0			
9				0			
				0			
10					END OF BORING @ 10'		

Remarks:

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