



Nobis Engineering
18 Chenell Drive
Concord, New Hampshire 03301

PROJECT

Remedial Design For Operable Unit 01

New Bedford Harbor Superfund Site

New Bedford, Massachusetts

BORING NO. FD-101

SHEET 1 of 10

FILE NO. 48138.27

CHKD. BY J. Trottier

Boring Co. Warren George, Inc. Boring Location northing 2697418 easting 814321
 Driller S. Laurenza Mudline El. -8.37 Datum NGVD
 Logged By S. Bonis Date Start 1/8/2001 Date End 1/9/2001

Sampler: 2-inch O.D. split-barrel sampler driven 24 inches with a 140 lb. center hole hammer free falling from a height of 30 inches.
 Drill Rig: Falling Truck Rig
 Drilling Method: 5-inch (PW) flush joint drill casing. 4-inch (HW) flush joint drill casing. Casing driven with a 300 lb. Center hole hammer free falling from a height of 24 inches.

Groundwater Readings Not Applicable for Offshore Borings				
Date	Time	Depth	Elev.	Stabilization Time

DEPTH (ft)	Casing Blows (ft)	SAMPLE INFORMATION					SAMPLE DESCRIPTION (ASTM D2488)	STRATUM DESCRIPTION	REMARKS
		Type & No.	PEN/REC (inches)	DEPTH (feet)	BLOWS PER 6 INCHES	SPT N-Value			
1	WOC						Sandy organic soil (OH); 60% organic clay/silt, 40% fine sand, organic odor, gray. Shells noted. Advance PW drill casing to 4 ft. Advance 3-7/8 in. roller bit to 4 ft.	ORGANIC CLAY	
2	WOC								
3	WOC	S-1	24/24	2-4	WOR/24"	---			
4	12								
5	7	S-2	24/18	4-6	WOR/24"	---			
6	5								
7	5	S-3	24/5	6-8	WOR/24"	---			
8	8								
9	15								
10	19								
		S-4	24/12	8-10	2-4-3-4	7	Poorly graded sand (SP); loose, 75% fine sand, 20% medium sand, 5% silt, light gray to light brown. Advance PW drill casing to 10 ft. Advance 3-7/8 in. roller bit to 10 ft.	MARINE SAND	
							Perform falling head permeability test at 10 ft.		

GRANULAR SOILS (N-Values)	COHESIVE SOILS (N-Values)	SYMBOL KEY	
0 to 4 - Very Loose 5 to 10 - Loose 11 to 30 - Medium Dense 31 to 50 - Dense Over 50 - Very Dense	0 to 2 - Very Soft 3 to 4 - Soft 5 to 8 - Medium Stiff 9 to 15 - Stiff 16 to 30 - Very Stiff Over 30 - Hard	1. S denotes split-barrel sampler. 2. U denotes 3-inch O.D. undisturbed sample. 3. UO denotes 3-inch Osterberg undisturbed sample. 4. PEN denotes penetration length of sampler. 5. REC denotes recovered length of sample. 6. SPT denotes Standard Penetration Test.	7. PID denotes Photoionization Detector 8. PPM denotes parts per million. 9. PP denotes Pocket Penetrometer. 10. FVST denotes field vane shear test. 11. RQD denotes Rock Quality Designation. 12. R denotes core run number.

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Drill Rig:	Failing Truck Rig					
Drilling Method:	5-inch (PW) flush joint drill casing, 4-inch (HW) flush joint drill casing.					
	Casing driven with a 300 lb. Center hole hammer free falling from a height of 24 inches.					

DEPTH	Casing Blows (ft)	SAMPLE INFORMATION					SAMPLE DESCRIPTION (ASTM D2488)	STRATUM DESCRIPTION	REMARKS
		Type & No.	PEN/REC (inches)	DEPTH (feet)	BLOWS PER 6 INCHES	SPT N-Value			
		S-5	24/12	10-12	5-2-4-5	6	Silty sand (SM); 58% fine sand, 3% medium sand, 1% coarse sand, 1% gravel, 37% silt, grayish-brown.	MARINE SAND	1
11	23						Advance PW drill casing to 12 ft. Advance 3-7/8 in. roller bit to 12 ft.		
12	22								
		S-6	24/16	12-14	4-3-5-5	8	Poorly graded sand (SP); loose, 60% fine sand, 40% medium sand, brown. Iron staining noted		
13	6						Advance PW drill casing to 14 ft. Advance 3-7/8 in. roller bit to 14 ft.		
14	10								
		S-7	24/11	14-16	3-1-1-5	2	Silty sand (SM); very loose, 75% fine sand, 10% medium sand, 15% silt, gray. Iron staining noted.		
15	WOH						Advance PW drill casing to 16 ft. Advance 3-7/8 in. roller bit to 16 ft.		
16	13								
		S-8	24/6	16-18	3-1-4-6	5	Silty sand (SM); 53% fine sand, 10% medium sand, 1% gravel, 36% silt, red and gray.		
17	16						Brown interbedded silt lenses. Advance PW drill casing to 18 ft. Advance 3-7/8 in. roller bit to 18 ft.		
18	25								
		S-9	24/6	18-20	5-3-5-7	8	Silty sand with gravel (SM); 29% fine sand, 19% medium sand, 9% coarse sand, 15% gravel, 28% silt, brown.	1	
19	24						Interbedded silt lenses. Advance PW drill casing to 20 ft. Advance 3-7/8 in. roller bit to 20 ft.		
20	27						Estimated strata change at 20 ft.	20.0 ft.	

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D E P T H	Casing Blows (ft)	SAMPLE INFORMATION					SAMPLE DESCRIPTION (ASTM D2488)	STRATUM DESCRIPTION	R E M A R K S
		Type & No.	PEN/REC (inches)	DEPTH (feet)	BLOWS PER 6 INCHES	SPT N-Value			
21	28	S-10	24/14	20-22	4-4-3-7	7*	Poorly graded sand with gravel (SP); 16% fine sand, 23% medium sand, 17% coarse sand, 42% gravel, 2% silt, brown. Subrounded to subangular sand and gravel. Advance PW drill casing to 22 ft. Advance 3-7/8 in. roller bit to 22 ft.	GLACIO FLUVIAL	1,2
22	30								
23	24	S-11	24/0"	22-24	4-6-6-6	12*			
24	31								
25	46								
26	43								
27	70								
28	53	S-12	24/0"	27-29	15-4-3-3	7	Washed sample. Advance PW drill casing to 32 ft. Advance 3-7/8 in. roller bit to 32 ft.		
29	57								
30	109								

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Date	Time	Depth	Elev.	Stabilization Time

D E P T H	Casing Blows (ft)	SAMPLE INFORMATION					SAMPLE DESCRIPTION (ASTM D2488)	STRATUM DESCRIPTION	R E M A R K S
		Type & No.	PEN/REC (inches)	DEPTH (feet)	BLOWS PER 6 INCHES	SPT N-Value			
31	164						GLACIO FLUVIAL	32.0 ft.	
32	106								
33						Top of bedrock at 32.0 ft. Advance 3-7/8 in. roller bit to 32.8 ft. Telescope HW drill casing to 32.8 ft. Begin HQ rock core at 32.8 ft. (boring log continued on next page)	BEDROCK		
34									
35									
36									
37									
38									
39									
40									

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Date	Time	Depth	Elev.	Stabilization Time

DEPTH (feet)	VISUAL REPRESENTATION	CORE INFORMATION			ROCK CORE DESCRIPTION	REMARKS
		CORE RUN	CORE INTERVAL	CORE TIME		
33.3	[Visual representation area]	R1	32.8-33.8	5 min.	Begin R1 at 32.8 ft. Fresh, hard to very hard, fine to medium grained GNEISS. Low angle foliation (approx. 10 to 20 degrees). REC. = 100%; RQD = 100% (excellent). Water return color: milky white.	
33.8			33.8-34.8	5.25 min.		
34.3		34.8-35.8	7 min.			
34.8		35.8-36.8	6 min.			
35.3		36.8-37.8	6 min.			
35.8						
36.3						
36.8						
37.3						
37.8				37.5 ft.: Mechanical break in rock core. End R1 at 37.8 ft.		

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Groundwater Readings Not Applicable for Offshore Borings

Date	Time	Depth	Elev.	Stabilization Time

DEPTH (feet)	VISUAL REPRESENTATION	CORE INFORMATION			ROCK CORE DESCRIPTION	REMARKS
		CORE RUN	CORE INTERVAL	CORE TIME		
38.3	[Visual representation of rock core with dashed lines indicating breaks]	R2	37.8-38.8	5.5 min	Begin R2 at 37.8 ft. Fresh, hard to very hard, fine to medium grained GNEISS. Low angle foliation (approx. 10 to 20 degrees). REC. = 100%; RQD = 100% (excellent). Water return color: milky white, except as noted.	
38.8			38.8-39.8	5 min		
39.3		39.8-40.8			6 min	
39.8			40.8-41.8	6.5 min		
40.3		41.8-42.8			6.25 min	
40.8			End R2 at 42.8 ft.			
41.3						
41.8						
42.3						
42.8						

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Date	Time	Depth	Elev.	Stabilization Time

DEPTH (feet)	VISUAL REPRESENTATION	CORE INFORMATION			ROCK CORE DESCRIPTION	REMARKS
		CORE RUN	CORE INTERVAL	CORE TIME		
43.3	[Visual representation of rock core]	R3	42.8-43.8	5.5 min.	Begin R3 at 42.8 ft. Fresh, hard to very hard, fine grained GNEISS. Low angle foliation (approx. 10 to 20 degrees). REC. = 100%; RQD = 100% (excellent). Water return color: milky white.	
43.8			43.8-44.8	5.75 min.		
44.3			44.8-45.8	5 min.		
44.8			45.8-46.8	4.5 min.		
45.3			46.8-47.8	6.75 min.		
45.8						
46.3						
46.8						
47.3						
47.8						

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ROCK CORE PICTURES



Core Runs R1 through R3



Core Runs R1 through R3

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ROCK CORE PICTURES



Core Runs R1 through R3



Core Runs R1 through R3

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ROCK CORE PICTURES



Core Runs R1 through R3



Reddish discoloration noted in R2

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