



Nobis Engineering  
PO Box 2890  
Concord, New Hampshire 03302

PROJECT

Remedial Design For Operable Unit 01

New Bedford Harbor Superfund Site

New Bedford, Massachusetts

BORING NO. FD - 31

SHEET 3 of 4

FILE NO. 48138.07

CHKD. BY J. Trotter

Boring Co. Atlantic Testing Laboratories, Limited

Driller A. Carter

Logged By E. Thibodeau

Boring Location

northing 2697298.2 easting 814345.8

Mudline El.

-7.5

Datum

NGVD

Date Start

8/3/99

Date End

8/4/99

Sampler: 2-inch O.D. split-barrel sampler driven 24 inches with a 140 lb. safety hammer free falling from a height of 30 inches.

Drill Rig: Acker AD2 truck mount

Drilling Method: 5-inch I.D. (PW) flush-joint casing and 4-inch I.D. (HW) flush-joint casing.

All casing driven with a 300 lb. center hole hammer free falling from a height of 30-inches.

Groundwater Readings Not Applicable for Offshore Borings

Date	Time	Depth	Elev.	Stabilization Time

DEPTH (ft)	Casing	SAMPLE INFORMATION					SAMPLE DESCRIPTION (ASTM D2488)	STRATUM DESCRIPTION	REMARKS
		Type & No.	PENREC (inches)	DEPTH (feet)	BLOWS PER 6 INCHES	SPT N-Value			
41	44	S-6	24/10	40-42	17-8-8-5	16	Poorly graded sand with gravel (SP); medium dense, 30% medium sand, 25% fine sand, 15% coarse sand, 25% gravel, 5% silt, brown.	SP	
42	50						Advance HW inner drill casing to 45 ft.		
43	31						Advance 3-7/8 in. button bit from 40 to 45 ft.		
44	35								
45	38								
46	48	S-7	24/0	45-47	15-13-7-5	20	No recovery. Piece of gravel lodged in tip of sampler.		
47	85						Advance HW inner drill casing to 47 ft.		
48	52	S-8	24/1	47-49	16-15-16-19	31	Poorly graded gravel with silt and sand (GP-GM); dense, 65% gravel, 10% coarse sand, 10% medium sand, 5% fine sand, 10% silt, brown.	GP-GM	2
49	56						Advance HW inner drill casing to 50 ft.		3
50	92						Advance 3-7/8 in. button bit from 47 to 50 ft.		
51	68	S-9	24/8	50-52	16-13-24-19	37	S-9A: Poorly graded sand with gravel (SP); dense, 25% coarse sand, 25% medium sand, 15% fine sand, 30% gravel, 5% silt, brown. (6 in.)	SP	2
52	157						S-9B: bedrock fragments. (2 in.)		
53	100/2"						Advance HW inner drill casing to 52 ft.		
54		R1	53.5-54.5		7 mins.		Top of bedrock at 52.0 ft.	BEDROCK	
55			54.5-55.5		3.5 mins.		Advance 3-7/8 in. button bit from 50 to 53.5 ft. Advance HW inner drill casing to 52.2 ft.		
56			55.5-56.5		3.5 mins.		Begin NX rock core at 53.5 ft.		
57			56.5-57.5		3.5 mins.		R1: 53.5 to 63.5 ft.		
58			57.5-58.5		7.5 mins.		Fresh, hard, light gray, aphanitic GNEISS with horizontal to low angle, close to moderately spaced, smooth, planar, slightly discolored, tight to open joints.		
59			58.5-59.5		6 mins.		REC = 90%, RQD = 66% (fair)		
60			59.5-60.5		5 mins.				

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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REMARKS:

- Sample description based on laboratory test data and ASTM D2487. Refer to Test Report No. 3, prepared by GeoTesi Express, dated October 28, 1999.
- 3-inch O.D. split-barrel sampler driven 24 inches with a 300 lb center hole hammer free falling from a height of 30 inches.
- Loss of drilling fluid noted during advancement of button bit.
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61		R1	60.5-61.5		4.5 mins.	BEDROCK	BEDROCK		
62		cont.	61.5-62.5		7 mins.				
63			62.5-63.5		7.5 mins.				
64						Bottom of exploration at 63.5 ft.; boring terminated in bedrock.			
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 2) 3-inch O.D. split-barrel sampler driven 24 inches with a 300 lb center hole hammer free falling from a height of 30 inches.  
 3) Loss of drilling fluid noted during advancement of button bit.  
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