

Sample Date: 8/3/11



BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N:	2696460
Location:	CAD3			E:	815755
Mudline Elevation (MLLW):	-7.0 feet				
Casing Type:	4" Vibracore	Total Boring Depth:	5.4'		
Vibracore Dia:	4"	Recovery Length Vibracore:	5.4'		
Drill Co:	Apex Cos.	Method:	Vibracore		
Driller:	JER/CAS/RM	Log By:	CAS		
				Boring No: A-CAD3A-2011-VC1	
				Sheet: 1 of 1	

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%					
0.3	0-0.3	N/A	5.4/5.4	Black organic SILT, some shell hash, little fine sand.	
0.9	0.3-0.9	N/A		Black organic SILT, little shell hash, little fine sand.	
3.3	0.9-3.3	N/A		Light gray SILT, trace shell hash, trace fine sand.	
5.4	3.3-5.4	N/A		Light gray SILT, trace shell hash, trace fine sand.	

Comments:



BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N: 2696713
Location:	CAD3			E: 815801
Mudline Elevation (MLLW):	-6.8 feet			
Casing Type:	N/A	Total Boring Depth:	9.0'	Boring No: A-CAD3A-2011-VC2
Vibracore Dia:	2"	Recovery Length Peat Corer:	9.0'	
Drill Co:	Apex Cos.	Method:	Russian Peat Corer	Sheet: 1 of 1
Driller:	JER/CAS/RM	Log By:	CAS	

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
				Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	
0.8	0-0.8	N/A	9.0/9.0	Black organic SILT, trace fine sand, trace shell hash.	
1.7	0.8-1.7	N/A		Dark grey and dense organic SILT, trace fine sand.	
3.0	1.7-3.0	N/A		Light grey organic SILT, trace shell hash.	
6.6	3.0-6.6	N/A		Light grey organic SILT.	
7.8	6.6-7.8	N/A		Light grey organic SILT.	
9.0	7.8-9.0	N/A		Light grey organic SILT.	

Comments: Sediment at this sample location was soft and loose and sampling with the vibracore was not feasible. Sample was washing out of the 4-inch vibracore; therefore, peat-core samples were collected at 3-foot intervals to 9 feet below mudline.



Sample Date: 8/3/11

BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N: 2696919
Location:	CAD3			E: 815846
Mudline Elevation (MLLW):	-6.2 feet			
Casing Type:	4" Vibracore	Total Boring Depth:	7.0'	
Vibracore Dia:	4"	Recovery Length Vibracore:	7.0'	
Drill Co:	Apex Cos.	Method:	Vibracore	
Driller:	JER/CAS/RM	Log By:	CAS	
				Boring No: A-CAD3A-2011-VC3
				Sheet: 1 of 1

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
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Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%

0.3	0-0.3	N/A	7.0/7.0	Vibracore: Black organic SILT.	
3.8	0.3-3.8	N/A		Vibracore: Light grey SILT, little fine sand, little shell hash.	
7.0	3.8-7.0	N/A		Vibracore: Light grey SILT, little shell hash, trace fine sand.	

Comments:



BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N:	2696959
Location:	CAD3			E:	815662
Mudline Elevation (MLLW):	-5.3 feet				
Casing Type:	4" Vibracore	Total Boring Depth:	4.7'	Boring No: A-CAD3A-2011-VC4	
Vibracore Dia:	4"	Recovery Length Vibracore:	4.7'		
Drill Co:	Apex Cos.	Method:	Vibracore	Sheet: 1 of 1	
Driller:	JER/CAS/RM	Log By:	CAS		

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
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Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%

0.25	0-0.25	N/A	4.7/4.7	Black organic SILT, trace fine sand, trace shell hash.	
0.4	0.25-0.4	N/A		Dark grey SILT and SHELL HASH, some fine to medium sand.	
1.4	0.4-1.4	N/A		Dark grey SILT and fine to medium SAND.	
2.6	1.4-2.6	N/A		Dark grey SILT and fine to coarse SAND.	
3.4	2.6-3.4	N/A		Black organic SILT and fine to coarse SAND.	
4.7	3.4-4.7	N/A		Light grey fine to coarse SAND, little fine gravel, trace medium gravel.	

Comments:



Sample Date: 8/3/11

BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N: 2697012
Location:	CAD3			E: 815476
Mudline Elevation (MLLW):	-3.9 feet			
Casing Type:	4" Vibracore	Total Boring Depth:	2.9'	Boring No: A-CAD3A-2011-VC5
Vibracore Dia:	4"	Recovery Length Vibracore:	2.9'	
Drill Co:	Apex Cos.	Method:	Vibracore	Sheet: 1 of 1
Driller:	JER/CAS/RM	Log By:	CAS	

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
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Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%

0.5	0-0.5	N/A	2.9/2.9	Black organic SILT and SHELL HASH, little fine sand.	
1.4	0.5-1.4	N/A		Silty fine to medium SAND, little shell hash.	
2.6	1.4-2.6	N/A		Brown / grey fine to medium SAND.	
2.9	2.6-2.9	N/A		Brown fine to medium SAND.	

Comments:



Sample Date: 8/4/11

BORING LOG

Project: New Bedford Harbor	Project No: 6690.013	N: 2696777
Location: CAD3		E: 815436
Mudline Elevation (MLLW): -4.2 feet		
Casing Type: 4" Vibracore	Total Boring Depth: 3.5'	Boring No: A-CAD3A-2011-VC6
Vibracore Dia: 4"	Recovery Length Vibracore: 3.5'	
Drill Co: Apex Cos.	Method: Vibracore	Sheet: 1 of 1
Driller: JER/CAS/RM	Log By: CAS	

Depth Below Mudline (F-feet)	Interval (F-feet)	Blow Count	Pen/Rec (F-feet)	Description (Color, Texture, Structure)	Remarks
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%					

0.3	0-0.3	N/A	3.5/3.5	Black organic SILT, little fine sand, trace shell hash.	
0.7	0.3-0.7	N/A		Dark grey fine to medium SAND and SILT, little shell hash.	
2.1	0.7-2.1	N/A		Dark grey SILT, some fine sand.	
2.4	2.1-2.4	N/A		Light grey inorganic SILT and fine SAND.	
3.5	2.4-3.5	N/A		Brown fine to medium SAND.	

Comments:

Sample Date: 7/28/11



BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N: 2696928
Location:	CAD3			E: 814927
Mudline Elevation (MLLW):	-6.2 feet			Boring No: A-CAD3-2011-VC1
Casing Type:	4" Vibracore	Total Boring Depth:	10.4'	
Vibracore Dia:	4"	Recovery Length Vibracore:	10.4'	Sheet: 1 of 1
Drill Co:	Apex Cos.	Method:	Vibracore	
Driller:	JER/CAS	Log By:	CAS	

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%					

1.4	0-1.4	N/A	10.4/10.4	Black organic SILT, some shell hash, some fine to coarse sand.	
4.0	1.4-4.0	N/A		Dark grey SILT and fine to coarse SAND and SHELL HASH, odor.	
6.7	4.0-6.7	N/A		Light grey SAND and SILT, trace fine gravel (localized at 6.3 feet), trace wood chips, odor.	
10.0	6.7-10	N/A		Light grey inorganic SILT, very slight odor.	
10.4	10-10.4	N/A		Red-orange-brown fine to medium SAND.	

Comments:



Sample Date: 7/28/11

BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N:	2696908
Location:	CAD3			E:	815052
Mudline Elevation (MLLW): -3.8 feet				Boring No: A-CAD3-2011-VC2	
Casing Type:	4" Vibracore	Total Boring Depth: 4.0'			
Vibracore Dia:	4"	Recovery Length Vibracore: 4.0'		Sheet: 1 of 1	
Drill Co:	Apex Cos.	Method:	Vibracore		
Driller:	JER/CAS	Log By:	CAS		

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%					

2.0	0-2	N/A	4.0/4.0	Black organic SILT and SHELL HASH, some fine sand.	
2.5	2-2.5	N/A		Dark grey / brown fine to coarse SAND and SHELL HASH.	
4.0	2.5-4.0	N/A		Light grey inorganic SILT.	

Comments:



Sample Date: 7/28/11

BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N:	2696862
Location:	CAD3			E:	815175
Mudline Elevation (MLLW):	-3.8 feet				
Casing Type:	4" Vibracore	Total Boring Depth:	6.0'		
Vibracore Dia:	4"	Recovery Length Vibracore:	6.0'		
Drill Co:	Apex Cos.	Method:	Vibracore		
Driller:	JER/CAS	Log By:	CAS		
				Boring No:	A-CAD3-2011-VC3
				Sheet:	1 of 1

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
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Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%

0.2	0-0.2	N/A	6.0/6.0	Black organic SILT.	
1.2	0.2-1.2	N/A		Black organic SILT and grey coarse SAND.	
1.4	1.2-1.4	N/A		Dark grey SILT and SHELL HASH.	
2.0	1.4-2.0	N/A		Dark grey SILT and fine to coarse SAND, some shell hash.	
3.2	2.0-3.2	N/A		Grey / light brown fine gravel.	
6.0	3.2-6.0	N/A		Inorganic SILT.	

Comments:



Sample Date: 7/28/11

BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N: 2696820
Location:	CAD3			E: 815297
Mudline Elevation (MLLW):	-3.9 feet			
Casing Type:	4" Vibracore	Total Boring Depth:	3.0'	
Vibracore Dia:	4"	Recovery Length Vibracore:	3.0'	
Drill Co:	Apex Cos.	Method:	Vibracore	
Driller:	JER/CAS	Log By:	CAS	
				Boring No: A-CAD3-2011-VC4
				Sheet: 1 of 1

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
				Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	
0.4	0-0.4	N/A	3.0/3.0	Black organic SILT and SHELL HASH.	
2.0	0.4-2.0	N/A		Black organic SILT and fine to coarse SAND, little fine gravel, little shell hash.	
3.0	2.0-3.0	N/A		Light grey inorganic SILT.	

Comments:



Sample Date: 7/28/11

BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N: 2696521
Location:	CAD3			E: 815257
Mudline Elevation (MLLW):	-5.5 feet			Boring No: A-CAD3-2011-VC5
Casing Type:	4" Vibracore	Total Boring Depth: 3.7'		
Vibracore Dia:	4"	Recovery Length Vibracore: 3.7'		Sheet: 1 of 1
Drill Co:	Apex Cos.	Method: Vibracore		
Driller:	JER/CAS	Log By: CAS		

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%					

0.3	0-0.3	N/A	3.7/3.7	Black organic SILT.	
2.7	0.3-2.7	N/A		Grey silt and fine to medium SAND and SHELL HASH, slight organic odor.	
3.7	2.7-3.7	N/A		Light grey fine to coarse SAND, some fine gravel.	

Comments:



Sample Date: 7/28/11

BORING LOG

Project: New Bedford Harbor	Project No: 6690.013	N: 2696569
Location: CAD3		E: 815125
Mudline Elevation (MLLW): -5.9 feet		
Casing Type: 4" Vibracore	Total Boring Depth: 3.1'	Boring No: A-CAD3-2011-VC6
Vibracore Dia: 4"	Recovery Length Vibracore: 3.1'	
Drill Co: Apex Cos.	Method: Vibracore	Sheet: 1 of 1
Driller: JER/CAS	Log By: CAS	

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%					

0.4	0-0.4	N/A	3.1/3.1	Black organic SILT and SHELL HASH.	
1.0	0.4-1.0	N/A		Dark grey SILT, little fine sand, little shell hash.	
2.1	1.0-2.1	N/A		Light grey SILT, some fine to coarse sand, trace shell hash.	
2.7	2.1-2.7	N/A		Light grey SILT, some fine to medium sand.	
3.1	2.7-3.1	N/A		Light grey / brown fine to coarse SAND and FINE GRAVEL.	

Comments:



Sample Date: 7/28/11

BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N:	2696625
Location:	CAD3			E:	814992
Mudline Elevation (MLLW): -6.7 feet				Boring No: A-CAD3-2011-VC7	
Casing Type:	4" Vibracore	Total Boring Depth:	5.3'		
Vibracore Dia:	4"	Recovery Length Vibracore:	5.3'	Sheet: 1 of 1	
Drill Co:	Apex Cos.	Method:	Vibracore		
Driller:	JER/CAS	Log By:	CAS		

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%					

0.5	0-0.5	N/A	5.3/5.3	Black organic SILT and SHELL HASH.	
1.0	0.5-1.0	N/A		Black organic SILT and SHELL HASH, little fine to coarse sand.	
2.15	1.0-2.15	N/A		Dark grey SILT, little fine sand, trace shell hash.	
4.35	2.15-4.35	N/A		Medium to dark grey SILT and fine to medium SAND, slight odor.	
5.1	4.35-5.1	N/A		Light grey fine to medium SAND.	
5.3	5.1-5.3	N/A		Light grey fine to coarse SAND, little fine gravel.	

Comments:



Sample Date: 8/2/11

BORING LOG

Project:	New Bedford Harbor	Project No:	6690.013	N:	2696681
Location:	CAD3			E:	814848
Mudline Elevation (MLLW): -8.9 feet					
Casing Type:	4" Vibracore	Total Boring Depth:	6.2'	Boring No: A-CAD3-2011-VC8	
Vibracore Dia:	4"	Recovery Length Vibracore:	6.2'		
Drill Co:	Apex Cos.	Method:	Vibracore	Sheet: 1 of 1	
Driller:	JER/CAS	Log By:	CAS		

Depth Below Mudline (Feet)	Interval (Feet)	Blow Count	Pen/Rec (Feet)	Description (Color, Texture, Structure)	Remarks
Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%					

0.75	0-0.75	N/A	6.2/6.2	Black organic SILT, trace shell hash.	
1.55	0.75-1.55	N/A		Dark grey SILT, little sand, organic odor.	
2.6	1.55-2.6	N/A		Dark grey SILT, little fine sand, trace shell hash.	
6.20	2.6-6.2	N/A		Dark grey SILT, trace fine to medium sand, organic odor.	

Comments:



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.7407 N
Location: DMMP North of Popes Island	CAD 2	Long 70 55.1221 W
Elevation at mudline: -5.6'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 14.0 ft	Boring No: VC-101
Casing Diameter: 3"	Recovery: 10.7 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 101 0-1	9.4 ft	Black organic silt; some shell hash, organic odor.
2	VC2007 101 1-2		Dark gray silt; little shell fragments.
3	VC2007 101 2-3		
4	VC2007 101 3-4		
5	VC2007 101 4-5		Dark gray silt; little shell fragments, trace very fine sand.
6	VC2007 101 5-6		
7	VC2007 101 6-7		
8	VC2007 101 7-8		Dark gray interbedded silt and fine sand.
9	VC2007 101 8-9		Dark gray silt.
10	VC2007 101 9-10		Peat
11			
12			
13			
14			

Bottom of Exploration at 14 ft

Comments:
Penetration: 14.0'.
No Refusal



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.8002 N
Location: DMMP North of Popes Island	CAD 2	Long 70 55.1221 W
Elevation at mudline: -6.4'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 9.5 ft	Boring No: VC-102
Casing Diameter: 3"	Recovery: 8.8 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 102 0-1	2.3 ft	Black organic silt; little shell fragments.
2	VC2007 102 1-2		Dark gray silt; some fine to medium sand.
3	VC2007 102 2-3		Gray fine to medium sand; some silt.
4	VC2007 102 3-4		
5	VC2007 102 4-5		
6	VC2007 102 5-6		
7			Gray fine to coarse sand; trace fine gravel.
8			
9			Brown fine sand.
10			NO RECOVERY below 8.8 ft
11			Bottom of Exploration at 9.5 ft
12			
13			
14			
15			

Comments:
 Penetration: 9.5 ft
 No Refusal



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.6962 N
Location: DMMP North of Popes Island	CAD 2	Long 70 54.9832 W
Elevation at mudline: -6.8'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 14.0 ft	Boring No: VC-103A
Casing Diameter: 3"	Recovery: 11.4 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 103 0-1	10.9 ft	Black to dark gray organic silt; trace shell fragments.
2	VC2007 103 1-2		Gray silt; trace shell fragments.
3	VC2007 103 2-3		Dark gray silt; little clay, trace shells.
4	VC2007 103 3-4		Gray clay; some silt.
5	VC2007 103 4-5		
6	VC2007 103 5-6		Gray clay; some silt, trace shell fragments.
7	VC2007 103 6-7		
8	VC2007 103 7-8		Gray silt.
9	VC2007 103 8-9		
10	VC2007 103 9-10		
11	VC2007 103 10-11		(trace peat at 10.3 ft)
12	Not sampled	Peat; trace sand.	
 20			NO RECOVERY below 11.4 ft

Bottom of Exploration at 20 ft

Comments:
 Penetration: 20.0 ft.
 No refusal.
 Bottom of core barrel contains gray clayey silt.



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.8754 N
Location: DMMP North of Popes Island	CAD 2	Long 70 55.0158 W
Elevation at mudline: -3.6'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 14.0 ft	Boring No: VC-104
Casing Diameter: 3"	Recovery: 11.9 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 104 0-1	0.4 ft	Black organic silt; some fine sand.
2	VC2007 104 1-2		Dark gray fine sand; little silt, little shell fragments.
3	VC2007 104 2-3		Gray fine sand.
4	Not Sampled		Tan fine to medium sand.
5			
6			
7			Tan fine to coarse sand.
8			
9			(6 inch thick oxidized layer at 8.75 ft)
10			
11			
12			
13		NO RECOVERY below 11.9 ft	
14			

Bottom of Exploration at 14 ft

Comments:
Penetration: 14.0'.
No Refusal.



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.8438 N
Location: DMMP North of Popes Island	CAD 2	Long 70 54.9236 W
Elevation at mudline: -5.4'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 20.0 ft	Boring No: VC-105
Casing Diameter: 3"	Recovery: 13.2 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: MB, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 105 0-1		Black organic silt; some shell fragments.
2	VC2007 105 1-2		Dark gray organic silt; little shell fragments.
3	VC2007 105 2-3		
4	VC2007 105 3-4		Gray organic silt; trace fine to coarse sand.
5	VC2007 105 4-5		
6	VC2007 105 5-6		Gray to tan very fine sand; little to some silt.
7	VC2007 105 6-7		
8	Not Sampled		Brown fine to coarse sand; little fine gravel.
9			
10			Gray very fine sand; some silt.
11			Gray silt.
12			Tan fine to coarse sand; little fine gravel.
13			Gray medium to coarse sand; some fine gravel.
14			NO RECOVERY below 13.2 ft
20			

Bottom of Exploration at 20 ft

Comments:
Penetration: 20.0 ft
No refusal.



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.8486 N
Location: DMMP North of Popes Island	CAD 2	Long 70 54.9985 W
Elevation at mudline: -4.3'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 10.0 ft	Boring No: VC-118
Casing Diameter: 3"	Recovery: 5.7 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: MB, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 118 0-1		Tan fine sand; some shell fragments.
2	VC2007 118 1-2		Dark gray to black fine sand; some silt, little shell fragments.
3	VC2007 118 2-3		Gray silt and fine sand.
4	Not Sampled		Tan fine to medium sand.
5			
6			
7			NO RECOVERY below 5.7 ft
8			
9			
10			

Bottom of Exploration at 10 ft

Comments:
 Penetration: 10.0 ft.
 Refusal at: 10.0 ft.



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.8443 N
Location: DMMP North of Popes Island	CAD 2	Long 70 55.0801 W
Elevation at mudline: -3.3'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 10.0 ft	Boring No: VC-119
Casing Diameter: 3"	Recovery: 5.4 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 119 0-1	0.9 ft	Black organic silt; some fine sand, little shell fragments.
2	VC2007 119 1-2		Tan very fine sand.
3	VC2007 119 2-3		Light gray silt.
4	VC2007 119 3-4		Interbedded light gray very fine sand and silt.
5	Not Sampled		
6			
7			
8			
9			
10			NO RECOVERY below 5.4 ft

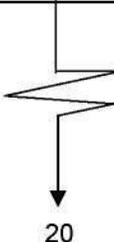
Bottom of Exploration at 10 ft

Comments:
 Penetration: 10.0 ft.
 No refusal



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.7604 N
Location: DMMP North of Popes Island	CAD 2	Long 70 54.9495 W
Elevation at mudline: -6.9'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 20.0 ft	Boring No: VC-120
Casing Diameter: 3"	Recovery: 11.0 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 120 0-1	0.7 ft	Black organic silt. Strong odor.
2	VC2007 120 1-2		Dark gray silt; trace shell fragments.
3	VC2007 120 2-3		Gray silt; trace shell fragments.
4	VC2007 120 3-4		
5	VC2007 120 4-5		
6	VC2007 120 5-6		Gray silt. (increasing stiffness with depth)
7	VC2007 120 6-7		
8	VC2007 120 7-8		
9	VC2007 120 8-9		
10	VC2007 120 9-10		
11	VC2007 120 10-11		
 20			NO RECOVERY below 11.0 ft

Bottom of Exploration at 20 ft

Comments:
Penetration: 20.0 ft.
No refusal



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.7407 N
Location: DMMP North of Popes Island	CAD 2	Long 70 55.1221 W
Elevation at mudline: -5.6'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 14.0 ft	Boring No: VC-101
Casing Diameter: 3"	Recovery: 10.7 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 101 0-1	9.4 ft	Black organic silt; some shell hash, organic odor.
2	VC2007 101 1-2		Dark gray silt; little shell fragments.
3	VC2007 101 2-3		
4	VC2007 101 3-4		
5	VC2007 101 4-5		Dark gray silt; little shell fragments, trace very fine sand.
6	VC2007 101 5-6		
7	VC2007 101 6-7		
8	VC2007 101 7-8		Dark gray interbedded silt and fine sand.
9	VC2007 101 8-9		Dark gray silt.
10	VC2007 101 9-10		Peat
11			
12			
13			
14			

Bottom of Exploration at 14 ft

Comments:
Penetration: 14.0'.
No Refusal



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.8002 N
Location: DMMP North of Popes Island	CAD 2	Long 70 55.1221 W
Elevation at mudline: -6.4'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 9.5 ft	Boring No: VC-102
Casing Diameter: 3"	Recovery: 8.8 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 102 0-1	2.3 ft	Black organic silt; little shell fragments.
2	VC2007 102 1-2		Dark gray silt; some fine to medium sand.
3	VC2007 102 2-3		Gray fine to medium sand; some silt.
4	VC2007 102 3-4		
5	VC2007 102 4-5		
6	VC2007 102 5-6		
7			Gray fine to coarse sand; trace fine gravel.
8			
9			Brown fine sand.
10			NO RECOVERY below 8.8 ft
11			Bottom of Exploration at 9.5 ft
12			
13			
14			
15			

Comments:
 Penetration: 9.5 ft
 No Refusal



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.6962 N
Location: DMMP North of Popes Island	CAD 2	Long 70 54.9832 W
Elevation at mudline: -6.8'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 14.0 ft	Boring No: VC-103A
Casing Diameter: 3"	Recovery: 11.4 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 103 0-1	10.9 ft	Black to dark gray organic silt; trace shell fragments.
2	VC2007 103 1-2		Gray silt; trace shell fragments.
3	VC2007 103 2-3		Dark gray silt; little clay, trace shells.
4	VC2007 103 3-4		Gray clay; some silt.
5	VC2007 103 4-5		Gray clay; some silt, trace shell fragments.
6	VC2007 103 5-6		Gray silt.
7	VC2007 103 6-7		(trace peat at 10.3 ft)
8	VC2007 103 7-8		Peat; trace sand.
9	VC2007 103 8-9		NO RECOVERY below 11.4 ft
10	VC2007 103 9-10		
11	VC2007 103 10-11		
12	Not sampled		
20			

Bottom of Exploration at 20 ft

Comments:
 Penetration: 20.0 ft.
 No refusal.
 Bottom of core barrel contains gray clayey silt.



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.8754 N
Location: DMMP North of Popes Island	CAD 2	Long 70 55.0158 W
Elevation at mudline: -3.6'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 14.0 ft	Boring No: VC-104
Casing Diameter: 3"	Recovery: 11.9 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 104 0-1	0.4 ft	Black organic silt; some fine sand.
2	VC2007 104 1-2		Dark gray fine sand; little silt, little shell fragments.
3	VC2007 104 2-3		Gray fine sand.
4	Not Sampled		Tan fine to medium sand.
5			
6			
7			Tan fine to coarse sand.
8			
9			(6 inch thick oxidized layer at 8.75 ft)
10			
11			
12			
13		NO RECOVERY below 11.9 ft	
14			

Bottom of Exploration at 14 ft

Comments:
Penetration: 14.0'.
No Refusal.



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.8438 N
Location: DMMP North of Popes Island	CAD 2	Long 70 54.9236 W
Elevation at mudline: -5.4'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 20.0 ft	Boring No: VC-105
Casing Diameter: 3"	Recovery: 13.2 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: MB, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 105 0-1		Black organic silt; some shell fragments.
2	VC2007 105 1-2		Dark gray organic silt; little shell fragments.
3	VC2007 105 2-3		
4	VC2007 105 3-4		Gray organic silt; trace fine to coarse sand.
5	VC2007 105 4-5		
6	VC2007 105 5-6		Gray to tan very fine sand; little to some silt.
7	VC2007 105 6-7		
8	Not Sampled		Brown fine to coarse sand; little fine gravel.
9			
10			Gray very fine sand; some silt.
11			Gray silt.
12			Tan fine to coarse sand; little fine gravel.
13			Gray medium to coarse sand; some fine gravel.
14			NO RECOVERY below 13.2 ft
20			

Bottom of Exploration at 20 ft

Comments:
Penetration: 20.0 ft
No refusal.



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.8486 N
Location: DMMP North of Popes Island	CAD 2	Long 70 54.9985 W
Elevation at mudline: -4.3'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 10.0 ft	Boring No: VC-118
Casing Diameter: 3"	Recovery: 5.7 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: MB, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 118 0-1		Tan fine sand; some shell fragments.
2	VC2007 118 1-2		Dark gray to black fine sand; some silt, little shell fragments.
3	VC2007 118 2-3		Gray silt and fine sand.
4	Not Sampled		Tan fine to medium sand.
5			
6			
7			NO RECOVERY below 5.7 ft
8			
9			
10			

Bottom of Exploration at 10 ft

Comments:
 Penetration: 10.0 ft.
 Refusal at: 10.0 ft.



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.8443 N
Location: DMMP North of Popes Island	CAD 2	Long 70 55.0801 W
Elevation at mudline: -3.3'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 10.0 ft	Boring No: VC-119
Casing Diameter: 3"	Recovery: 5.4 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 119 0-1	0.9 ft	Black organic silt; some fine sand, little shell fragments.
2	VC2007 119 1-2		Tan very fine sand.
3	VC2007 119 2-3		Light gray silt.
4	VC2007 119 3-4		Interbedded light gray very fine sand and silt.
5	Not Sampled		
6			
7			
8			
9			
10			

Bottom of Exploration at 10 ft

Comments:
Penetration: 10.0 ft.
No refusal



VIBRACORE LOG

Project: New Bedford Harbor	Project No: 6515.003	Lat 41 38.7604 N
Location: DMMP North of Popes Island	CAD 2	Long 70 54.9495 W
Elevation at mudline: -6.9'	Datum: MLLW	
Casing Type: Polycarbonate	Penetration: 20.0 ft	Boring No: VC-120
Casing Diameter: 3"	Recovery: 11.0 ft	
Drill Co: TGB	Method: Vibracore	Sheet: 1 of 1
Driller: RR	Log By: KvN, GCD	

Depth below mudline (ft)	Sample ID	Depth of Strata Break (ft)	Description (Color, Texture, Structure)
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
1	VC2007 120 0-1	0.7 ft	Black organic silt. Strong odor.
2	VC2007 120 1-2		Dark gray silt; trace shell fragments.
3	VC2007 120 2-3		Gray silt; trace shell fragments.
4	VC2007 120 3-4		
5	VC2007 120 4-5		
6	VC2007 120 5-6		Gray silt. (increasing stiffness with depth)
7	VC2007 120 6-7		
8	VC2007 120 7-8		
9	VC2007 120 8-9		
10	VC2007 120 9-10		
11	VC2007 120 10-11		
 20			NO RECOVERY below 11.0 ft

Bottom of Exploration at 20 ft

Comments:
Penetration: 20.0 ft.
No refusal



BORING LOG

Project:	New Bedford Harbor Dredge - Phase I			Boring No:	M201
Location:	New Bedford, MA		Project No:	6505.009.01	
Northing:	2694497	Easting:	814858	Date:	10/07/2002
Length:	5.5'	Recovery:	3'		
Drill Company:	CR	Method:	Vibracore		
Driller:	CR	Log By:	MM		

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1	OL/OH	Black organic silt, odor noted.	M201-1	
2'	1-2	OL/OH	Similar to 0-1', 2 to 3 small stones recovered,	M201-2	
3'	2-3	SM	Light gray, small stones, well-graded, sand: 50%, silt 20%.	M201-3	
4'			Bottom of Exploration		
5'					
6'					
7'					

Comments:



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M202	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2694418	Easting: 814729	Date: 10/07/2002		
Length: 7'	Recovery: 5'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1	OL/OH	Black organic silt, odor noted, trace shell fragments.	M202-1	
2'	1-4	OL/OH	Black organic silt, odor noted, trace sand.	M202-2	
3'					
4'					
5'	4-4.5	SM	Fine brown sand.		
6'			Bottom of Exploration		
7'					

Comments:



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M203	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2694549	Easting: 814679	Date: 10/04/2002		
Length: 7'	Recovery: 4.75'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1	OL/OH	Black organic silt, odor noted.	M203-1	
2'	1-2.8	ML	Black silt.	M203-2	
3'				M203-3	
4'	2.8-4.5	SP	Light gray fine sand, firm, 60% clay.	M203-4	
				M203-5	
5'	4.5-4.75	SM	Fine sand.		
6'			Bottom of Exploration		
7'					

Comments:



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M204	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2694516	Easting: 814511	Date: 10/04/2002		
Length: 6.5'	Recovery: 3.5'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1	OL/OH	Black organic silt, odor noted.	M204-1	
2'	1-2	ML	Black silt.	M204-2	
	2-2.5	ML	Black silt.		
3'	2.5-3	ML	Black silt, sheen noted, 2 to 3 small stones.	M204-3	
	3-3.5	SM	Coarse sand, poorly sorted.		
4'			Bottom of Exploration		
5'					
6'					
7'					

Comments:



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M205	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2694284	Easting: 814506	Date: 10/04/2002		
Length: 7'	Recovery: 4'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-2	OL/OH	Black organic silt, well sorted, odor noted.	M205-1	
2'				M205-2	
3'	2-3	OL/OH	Black organic silt, well sorted, sheen noted.	M205-3	
4'	3-4	OL/OH	Black organic silt, well sorted, shell and wood fragments present.	M205-4	
5'			Bottom of Exploration		
6'					
7'					

Comments:



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M206	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2643556	Easting: 815442	Date: 10/11/2002		
Length: 9'	Recovery: 5.5'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1	OL/OH	Black organic silt with trace fine sand (10%), odor noted.	M206-1	
2'	1-2	SP	Dark gray sandy clay, top 3" is black, shell fragments present.	M206-2	
3'	2-3	CL	Gray silty clay, 5% sand, peat present at 2.5'.	M206-3	
4'	3-4	CL	Gray silty clay, 10% sand, peat present at 3.5'.	M206-4	
5'	4-5	CL	Gray silty clay, minor shell fragments.	M206-5	
	5-5.5	SM	Light gray fine sand.	M206-6	
6'			Bottom of Exploration		
7'					

Comments:



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M207	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2643537	Easting: 815616	Date: 10/11/2002		
Length: 9'	Recovery: 6.1'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-3.25	OL/OH	Black organic silt, increasing cohesion with depth, no sheen.	M207-1	
				M207-2	
2'				M207-3	
3'					
4'	3.25-5	ML	Olive gray silt with an interbedded small sand lens composed of fine to medium sand with organic matter in sand.	M207-4	
				M207-5	
5'					
6'	5-6	SM	Medium to coarse sand with interbedded silt and shell fragments; 50% coarse sand, 30% medium sand, 10% gravel, 10% organics.	M207-6	
7'			Bottom of Exploration		

Comments:



BORING LOG

Project:	New Bedford Harbor Dredge - Phase I			Boring No:	M208	
Location:	New Bedford, MA	Project No: 6505.009.01		See Site Map for Boring Locations		
Northing:	2693334	Easting:	815617		Date:	10/08/2002
Length:	9'	Recovery:	6'			
Drill Company:	CR	Method:	Vibracore			
Driller:	CR	Log By:	MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1	OL/OH	Black organic silt.	M208-1	
2'	1-2	OL/OH	Black organic silt with trace fine sand.	M208-2	
3'	2-3	OL/OH	Black organic silt with trace sand.	M208-3	
4'	3-4.5	OL/OH	Black organic silt with trace sand.	M208-4	
5'	4.5-6	SM	Gray fine to medium sand with trace gravel and cobbles.		
6'				M208-5	
7'			Bottom of Exploration		

Comments:



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M209	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2693189	Easting: 815553	Date: 10/07/2002		
Length: 8'	Recovery: 4.8'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1	OL/OH	Black organic silt, odor noted.	M209-1	
2'	1-2	OL/OH	Black organic silt, sheen noted.	M209-2	
3'	2-3	OL/OH	Black organic silt with small wood fragments.	M209-3	
4'	3-4	CL	Dark to medium gray clay.	M209-4	
5'	4-4.8	SM	Coarse gray sand.	M209-5	
6'			Bottom of Exploration		
7'					

Comments:



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M210	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2693296	Easting: 815770	Date: 10/07/2002		
Length: 9.6'	Recovery: 6.3'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1	OL/OH	Black organic silt with trace sand, odor noted.	M210-1	
2'	1-2	OL/OH	Black organic silt with trace sand, odor noted.	M210-2	
3'	2-3	OL/OH	Black organic silt with trace sand, sheen noted.	M210-3	
4'	3-4	OL/OH	Black organic silt grading to silty clay, odor noted.	M210-4	
5'	4-5	CL	4-4.6': Gray silty clay.		
		SM	4.6-5': Gray fine sand with shell fragments.		
6'	5-6.2	CL	Dark gray clay with trace silt and shell fragments, dense clay at bottom of core.		
7'			Bottom of Exploration		

Comments:



BORING LOG

Project:	New Bedford Harbor Dredge - Phase I	Boring No:	M211
Location:	New Bedford, MA	Project No:	6505.009.01
Northing:	2693473	Easting:	815483
Length:	10.5'	Recovery:	7'
Drill Company:	CR	Method:	Vibracore
Driller:	CR	Log By:	MM

See Site Map for Boring Locations

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-2	OL/OH	Black organic silt, increasing cohesion with depth, minor shell fragments.	M211-1	
2'				M211-2	
3'	2-3	ML	Olive gray silt with 0.5" lenses of medium to coarse sand.	M211-3	
4'	3-4.5	ML	Similar to 2-3' with black organic material lenses (0.25 to 0.5" thick),	M211-4	
5'	4.5-5.6	ML	Similar to 3-4.5' with shell fragments.	M211-5	
6'	5.6-6.5	SW	Gray coarse sand and gravel.	M211-6	
7'	6.5-7	6.5-6.8' 6.8-7'	Brown sand and gravel with silt. Yellow coarse sand and gravel.	M211-7	

Comments: Bottom of Exploration



BORING LOG

Project:	New Bedford Harbor Dredge - Phase I	Boring No: M212
Location:	New Bedford, MA	Project No: 6505.009.01
Northing: 2693412	Easting: 815537	Date: 10/11/2002
Length:	10'	Recovery: 8.8'
Drill Company:	CR	Method: Vibracore
Driller:	CR	Log By: MM

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1	OL/OH	Black organic silt, sheen and odor noted.	M212-1	
2'	1-2	OL/OH	Black organic silt, sheen and odor noted.	M212-2	
3'	2-3	CL	Silty clay with shell fragments at 3', sheen noted.	M212-3	
4'	3-4	CL	Dark gray sandy clay with shell fragments in top 3'.	M212-4	
5'	4-4.8	SM	Light gray fine sand.	M212-5	
	4.8-5.4	SM	Medium gray sand.	M212-6	
6'	5.4-6	SM	Light gray fine sand.	M212-7	
7'	6-7	SM	Dark gray medium sand with trace black sand.	M212-8	
8'	7-8.8	SM	Medium brown sand wuth slight orange tint.		
9'			Bottom of Exploration		

Comments: Photographs taken.



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M213	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2693332	Easting: 815487	Date: 10/11/2002		
Length: 8'	Recovery: 6.5'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1	OL/OH	Black organic silt.	M213-1	
2'	1-2	OL/OH	Black organic silt.	M213-2	
3'	2-3	OL/OH	Black organic silt.		
4'	3-3.5	OL/OH	Black organic silt with trace fine sand.	M213-3	
	3.5-4	OL/OH	Black organic silt with trace fine sand.		
5'	4-4.5	OL/OH	Black organic silt with trace fine sand, gray clay, and shells.	M213-4	
6'	4.5-6.5	SW	Gray fine to medium sand with trace rounded gravel.	M213-5	
7'					

Comments: Bottom of Exploration



BORING LOG

Project:	New Bedford Harbor Dredge - Phase I			Boring No:	M214
Location:	New Bedford, MA		Project No:	6505.009.01	
Northing:	2694323	Easting:	815073	Date:	10/07/2002
Length:	9'	Recovery:	4'	See Site Map for Boring Locations	
Drill Company:	CR	Method:	Vibracore		
Driller:	CR	Log By:	MM		

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1	OL/OH	Shell fragments, organics, dark to light gray medium sand.	M214-1	
2'	1-2	SM	Brown medium sand with with brown fine sand lens.		
3'	2-3	SW	Fine sand with trace brown medium sand and cobbles.		
4'	3-4	SW	Poorly graded brown coarse sand with cobbles of various sizes.		
5'			Bottom of Exploration		
6'					
7'					

Comments:



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M215	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2694503	Easting: 815130	Date: 10/11/2002		
Length: 3.5'	Recovery: 2.9'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1	SM	Medium to coarse sand with trace shell fragments and silt.		
2'	1-2.9	SM	Yellow medium sand with interbedded silt and coal/wood, small coarse gravel visible at end of core.		
3'					
4'					
5'			Bottom of Exploration		
6'					
7'					

Comments:



BORING LOG

Project:	New Bedford Harbor Dredge - Phase I			Boring No:	M216		
Location:	New Bedford, MA	Project No: 6505.009.01		See Site Map for Boring Locations			
Northing:	2694082	Easting:	815185			Date:	10/07/2002
Length:	7'	Recovery:	4.2'				
Drill Company:	CR	Method:	Vibracore				
Driller:	CR	Log By:	MM				

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1	OL/OH	Black organics with trace sand, sheen noted, strong odor, shell fragments.	M216-1	
2'	1-2.5	ML	Black silt with shell fragments, trace sand and gray fine silt, large stone in middle of core.	M216-2	
3'	2.5-3.3	SM	Dark gray medium sand.	M216-3	
4'	3.3-4.2	SM	Brown medium sand with orange tint, well graded.	M216-4	
5'			Bottom of Exploration		
6'					
7'					

Comments:



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M217	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2695189	Easting: 815202	Date: 10/07/2002		
Length: 9'	Recovery: 6.9'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1	OL/OH	Black organics with trace fine sand and silt, slight odor.	M217-1	
2'	1-2	OL/OH	Black organics with fine sand and silt, slight odor, wood fragments.	M217-2	
3'	2-3	SM	Brown medium sand, shell fragments, black lens at 28".	M217-3	
4'	3-4.5	SM	Brown/gray medium sand, well sorted.	M217-4	
5'	4.5-6.9	SW	Top 3" composed of poorly sorted cobbles, remainder is composed of light gray medium sand.	M217-5	
6'					
7'					

Comments: Bottom of Exploration



BORING LOG

Project:	New Bedford Harbor Dredge - Phase I			Boring No:	M218
Location:	New Bedford, MA		Project No:	6505.009.01	
Northing:	2695315	Easting:	815240	Date:	10/07/2002
Length:	10'	Recovery:	4'	See Site Map for Boring Locations	
Drill Company:	CR	Method:	Vibracore		
Driller:	CR	Log By:	MM		

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1	ML	Gray sandy silt, slight odor, wood fragment present.	M218-1	
2'	1-2	ML	Light gray sandy silt with 3-4 wood fragments.	M218-2	
3'	2-3	SM	Light brown fine sand with trace silt, gray lens present from 30-33".		
4'	3-4	SM	Light gray fine sand with shell fragments in bottom 3" and clay in bottom 1".		
5'			Bottom of Exploration		
6'					
7'					

Comments:



BORING LOG

Project:	New Bedford Harbor Dredge - Phase I			Boring No:	M219
Location:	New Bedford, MA		Project No:	6505.009.01	
Northing:	2695520	Easting:	815248	Date:	10/11/2002
Length:	9'	Recovery:	4.5'		
Drill Company:	CR	Method:	Vibracore		
Driller:	CR	Log By:	MM		

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1	OL/OH	Black silt, organics, odor and sheen noted.	M219-1	
2'	1-2	SM	Light gray medium sand with 1" lens of light gray clay at 1.5'.	M219-2	
3'	2-3	SM	Light to brownish medium sand.	M219-3	
4'	3-4.5	SM	Light gray medium sand with shell fragments.	M219-4	
5'			Bottom of Exploration		
6'					
7'					

Comments: Strong odor throughout.



BORING LOG

Project: New Bedford Harbor Dredge - Phase I	Boring No: M220
Location: New Bedford, MA	Project No: 6505.009.01
Northing: 2694469 Easting: 815271	Date: 10/04/2002
Length: 5.8' Recovery: 3.5'	See Site Map for Boring Locations
Drill Company: CR Method: Vibracore	
Driller: CR Log By: MM	

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1	OL/OH	Black organic silt, wood and shell fragments, odor noted.	M220-1	
	1-1.8	OL/OH	Black organic silt, wood and shell fragments, odor noted.		
2'	1.8-2	SM	Light gray medium sand.		
	2-3	SM	Light gray medium sand.		
3'					
	3-3.5	SM	Brown medium sand.		
4'			Bottom of Exploration		
5'					
6'					
7'					

Comments:



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M221	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2694149	Easting: 814334	Date: 10/07/2002		
Length: 10'	Recovery: 4'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1	OL/OH	Black silt	M221-1	
2'	1-2	OL/OH	Black silt with trace sand (10%), dark gray silt at 2'.	M221-2	
3'	2-3	SW	Gray fine sand, some cobbles in middle, poorly graded.		
4'	3-4	SW	Light gray fine sand, last 5" composed of black cobbles of various sizes (50% stones, 30% sand, 10% fine sand).		
5'			Bottom of Exploration.		
6'					
7'					

Comments:



BORING LOG

Project:	New Bedford Harbor Dredge - Phase I			Boring No:	M222		
Location:	New Bedford, MA	Project No: 6505.009.01		See Site Map for Boring Locations			
Northing:	2693895	Easting:	814370			Date:	10/04/2002
Length:	7'	Recovery:	3.6'				
Drill Company:	CR	Method:	Vibracore				
Driller:	CR	Log By:	MM				

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1	OL/OH	Black organic silt, surface shells, worm tubes, odor and sheen noted.	M222-1	
2'	1-2.6	OL/OH	Black organic silt.	M222-2	
3'	2.6-3	SW	Black coarse sand, poorly sorted, minor shell fragments, small stones.	M222-3	
	3-3.6	SW	Brown coarse sand and gravel, poorly sorted, small cobbles.	M222-4	
4'			Bottom of Exploration.		
5'					
6'					
7'					

Comments: Actual projected sample location M223 renamed M222 in Hypack samples.



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M223	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2694006.5	Easting: 814346	Date: 10/04/2002		
Length: 9'	Recovery: 5.5'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-3	OL/OH	Black organic silt, slight sheen, one shell fragment.	M223-1	
2'				M223-2	
3'				M223-3	
4'	3-3.5	SM	Gray fine sand, poorly sorted, one shell fragment.	M223-4	
	3.5-3.8	SM	Granular sand, well sorted.		
	3.8-4.2	SM	Light gray fine to medium sand, trace shell fragments.		
5'	4.2-4.8	SM	Black medium sand and silt.	M223-5	
	4.8-5.5	SW	Coarse sand and gravel, small cobbles, poorly sorted.		
6'			Bottom of Exploration.		
7'					

Comments: Actual projected sample location M222 renamed M223 in Hypack samples.



BORING LOG

Project: New Bedford Harbor Dredge - Phase I			Boring No: M224	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2693725	Easting: 814388	Date: 10/07/2002		
Length: 9'	Recovery: 4'			
Drill Company: CR	Method: Vibracore			
Driller: CR	Log By: MM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1	CL	Gray clay with trace gravel and silt, and shell fragments.	M224-1	
2'	1-2	CL	Gray clay and shell fragments.		
3'	2-3	CL	Gray clay, shell fragments, and pieces of metal.		
4'	3-4	CL	Gray clay with shell fragments concentrated at 4'.		
5'			Bottom of Exploration.		
6'					
7'					

Comments:



BORING LOG

Project: North Terminal Dredging Phase 1			Boring No: M401	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2696055.18	Easting: 814518.72	Date: 04/04/2003		
Length: 6.5'	Recovery: 4.7'			
Drill Company: CR	Method: Vibracore			
Driller: Ray & Sal		Log By: TM		

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1.8	OL/OH	Black organic silt, strong sheen noted.	M401-1 (0-1')	
				M401-2 (1-1.8')	
2'	1.7-4.7	SM	Gray silty sand with slight layering of OL/OH, firm and well compacted.		
3'					
4'					
5'					
6'			Bottom of Exploration		
7'					

Comments:



BORING LOG

Project: North Terminal Dredging Phase 1			Boring No: M402	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2696055.06	Easting: 814706.68	Date: 04/04/2003		
Length: 5'	Recovery: 3.6'			
Drill Company: CR	Method: Vibracore			
Driller: Ray & Sal		Log By: TM		

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1.8	OL/OH	Black organic silt.	M402-1 (0-1')	
				M402-2 (1-1.8')	
2'	1.8-2.4	SM	Gray fine to medium sand with silt.	M402-3 (1.8-3.0')	
3'	2.4-3.3	SM	Gray medium sand with organic silts and fine sand. Small amounts of coarse sand and fine gravel.		
	3.3-3.6	SM	Yellow medium to coarse sand with little silt and no organics. Stone at 1.5" from top of layer break.		
4'			Bottom of Exploration		
5'					
6'					
7'					

Comments: Rock in first core attempt.



BORING LOG

Project: North Terminal Dredging Phase 1			Boring No: M403	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2695885.64	Easting: 814506.45	Date: 04/04/2003		
Length: 7'	Recovery: 4.9'			
Drill Company: CR	Method: Vibracore			
Driller: Ray & Sal	Log By: TM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1.9	OL/OH	Black organic silt.	M403-1 (0-1')	
2'				M403-2 (1-1.9')	
3'	1.9-3	SM	Fine sand with 1/4" layers of OL/OH		
4'	3-3.7	SM	Fine to medium sand with black silt (sand is clean).		
	3.7-3.9	CL	Olive gray clay.		
5'	3.9-4.9	SW	Yellow medium sand (sand is clean).		
6'			Bottom of Exploration		
7'					

Comments:



BORING LOG

Project:	North Terminal Dredging Phase 1			Boring No:	M404		
Location:	New Bedford, MA	Project No: 6505.009.01		See Site Map for Boring Locations			
Northing:	2695927.25	Easting:	814805.84			Date:	04/04/2003
Length:	6.5'	Recovery:	4.5'				
Drill Company:	CR	Method:	Vibracore				
Driller:	Ray & Sal	Log By:	TM				

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-3	OL/OH	Black organic silt. Sheen noted.	M404-1 (0-1')	
2'				M404-2 (1-2')	
3'				M404-3 (2-3')	
4'	3-3.75	SM	Fine gray sand with silt, shells noted.	M404-4 (3-4')	
5'	3.75-4.5	SW	Medium sand with little silt, some thin 1/4" layers of consolidated OL/OH, shells and wood noted.		
6'			Bottom of Exploration		
7'					

Comments:



BORING LOG

Project: North Terminal Dredging Phase 1			Boring No: M405	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2695735.88	Easting: 814658.02	Date: 04/04/2003		
Length: 5'	Recovery: 2.9'			
Drill Company: CR	Method: Vibracore			
Driller: Ray & Sal	Log By: TM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
	0-1.2	OL/OH	Black organic silt, sheen noted.	M405-1 (0-1.2')	
1'					
	1.2-1.4	SM	Fine sand and silt.		
	1.4-1.8	SM	Gray medium sand with silt.		
2'	1.8-2	SW	Black medium sand with silt.		
	2-2.9	SW	Yellow medium to coarse sand and gravel.		
3'					
			Bottom of exploration.		
4'					
5'					
6'					
7'					

Comments: Second attempt.



BORING LOG

Project:	North Terminal Dredging Phase 1	Boring No:	M406
Location:	New Bedford, MA	Project No:	6505.009.01
Northing:	2695614	Easting:	814475.15
Length:	5.5'	Recovery:	4.3'
Drill Company:	CR	Method:	Vibracore
Driller:	Ray & Sal	Log By:	TM

See Site Map for Boring Locations

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1.4	OL/OH	Black organic silt. Thin piece of material noted at 1.3'.	M406-1 (0-1.4')	
2'	1.4-2.6	SM	Gray silt and fine sand with 1/4" layer of fine brown sand. Soft	M406-2 (1.4-2.4')	
3'	2.6-4.3	SM	Medium to coarse sand with silt.		
4'					
5'			Bottom of Exploration		
6'					
7'					

Comments: Second attempt. First attempt no recovery.



BORING LOG

Project:	North Terminal Dredging Phase 1			Boring No:	M407		
Location:	New Bedford, MA	Project No: 6505.009.01		See Site Map for Boring Locations			
Northing:	2695618.73	Easting:	814892.89			Date:	04/04/2003
Length:	6.5'	Recovery:	5.2'				
Drill Company:	CR	Method:	Vibracore				
Driller:	Ray & Sal	Log By:	TM				

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-2.9	OL/OH	Black organic silt.	M407-1 (0-1')	
2'				M407-2 (1-2')	
3'				M407-3 (2-2.9')	
4'	2.9-4	SM	Black/gray fine sand and silt with OL/OH layers between 3.7' - 4'.		
5'	4-5.2	SW	Brown/gray fine sand grading to medium sand.		
6'			Bottom of Exploration		
7'					

Comments: Third attempt.



BORING LOG

Project: North Terminal Dredging Phase 1			Boring No: M408	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2695445.39	Easting: 814820.77	Date: 04/04/2003		
Length: 6'	Recovery: 3.5'			
Drill Company: CR	Method: Vibracore			
Driller: Ray & Sal		Log By: TM		

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-2.2	OL/OH	Black organic silt.	M408-1 (0-1')	
2'				M408-2 (1-2')	
3'	2.2-3.1	SM	Gray fine sand and black organic silt.	M408-3 (2-3')	
4'	3.1-3.5	SM	Brown fine sand and silt.		
5'			Bottom of Exploration		
6'					
7'					

Comments:



BORING LOG

Project: North Terminal Dredging Phase 1			Boring No: M409	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2695468.94	Easting: 814583.11	Date: 04/04/2003		
Length: 5'	Recovery: 3.1'			
Drill Company: CR		Method: Vibracore		
Driller: Ray & Sal		Log By: TM		

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1.9	OL/OH	Black organic silt.	M409-1 (0-1')	
2'				M409-2 (1-2')	
	1.9-2.3	SM	Gray/brown fine sand with silt and trace black organics.		
3'	2.3-3.1	SM	Medium sand with silt and trace coarse sand, wood piece noted.		
4'			Bottom of exploration.		
5'					
6'					
7'					

Comments:



BORING LOG

Project:	North Terminal Dredging Phase 1	Boring No:	M410
Location:	New Bedford, MA	Project No:	6505.009.01
Northing:	2695317.92	Easting:	814505.29
Length:	5'	Recovery:	3.8'
Drill Company:	CR	Method:	Vibracore
Driller:	Ray & Sal	Log By:	TM

See Site Map for Boring Locations

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-2.5	OL/OH	Black organic silt, sheen noted.	M410-1 (0-1')	
2'				M410-2 (1-2')	
3'	2.5-3	OL	Gray/black organic silt, stiff, sheen noted.	M410-3 (2-3')	
4'	3-3.6	SM	Gray fine sand with trace black organic silt.		
	3.6-3.8	SW	Gray sand and gravel with coarse silt and sand.		
5'			Bottom of exploration		
6'					
7'					

Comments: Definitely refusal.



BORING LOG

Project: North Terminal Dredging Phase 1	Boring No: M411
Location: New Bedford, MA	Project No: 6505.009.01
Northing: 2695264.44 Easting: 814722.04	Date: 04/07/2003
Length: 5' Recovery: 3.4'	See Site Map for Boring Locations
Drill Company: CR Method: Vibracore	
Driller: Ray & Sal Log By: TM	

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
	0-0.8	OL/OH	Black organic silt	M411-1 (0-0.8')	
1'	0.8-1.6	SM	Gray fine sand with silt.	M411-2 (0.8-1.6')	
2'	1.6-2.6	SW	Yellow medium to coarse sand with 1/4" layers of gray fine sand.		
3'	2.6-3.4	SW	Sample lost when returning core barrel, presumed sandy.		
4'			Bottom of exploration		
5'					
6'					
7'					

Comments: First attempt 7' penetration, core barrel fell over. Used second core. Third attempt, 6' penetration and 3' recovery.



BORING LOG

Project: North Terminal Dredging Phase 1			Boring No: M412	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2695103.46	Easting: 814900.57	Date: 04/07/2003		
Length: 5.5'	Recovery: 3.3'			
Drill Company: CR	Method: Vibracore			
Driller: Ray & Sal		Log By: TM		

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-2	OL/OH	Black organic silt and clay with sand and 1/4" layer of medium sand at 1.1'.	M412-1 (0-1')	
2'				M412-2 (1-2')	
3'	2-3.5	SW	Gray fine sand with little silt.		
4'					
5'			Bottom of exploration		
6'					
7'					

Comments: First attempt logged. Four total attempts.
 Second attempt: 7'1/2.8', all OL/OH.
 Third attempt: 6'1/2, no recovery.
 Fourth attempt: 7'1/2', all OL/OH.



BORING LOG

Project: North Terminal Dredging Phase 1			Boring No: M413	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2695168.78	Easting: 814451.77	Date: 04/07/2003		
Length: 6.5'	Recovery: 4.7'			
Drill Company: CR	Method: Vibracore			
Driller: Ray & Sal	Log By: TM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-2	OL/OH	Black organic silt , sheen noted at 1.9'.	M413-1 (0-1')	
2'				M413-2 (1-2')	
	2-2.6	OL	Dark gray clay and silt.		
3'	2.6-3.1	SM	Gray medium sand with layers of black organic silt.		
	3.1-3.9	SM	Medium yellow sand and silt.		
4'					
	3.9-4.7	SM	Coarse sand with silt.		
5'			Bottom of exploration		
6'					
7'					

Comments: Large number of interbedded OL/OH.



BORING LOG

Project: North Terminal Dredging Phase 1			Boring No: M414	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2696094.69	Easting: 814963.43	Date: 04/07/2003		
Length: 7.5'	Recovery: 5.1'			
Drill Company: CR	Method: Vibracore			
Driller: Ray & Sal		Log By: TM		

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-2.3	OL/OH	Black organic silt.	M414-1 (0-1')	
2'				M414-2 (1-2.3')	
3'	2.3-3.1	SM	Fine brown sand and silt, loose.	M414-3 (2-3.1')	
4'	3-4.8	SC	Olive-brown clay with sand. 1.5" layer of dark gray sand and silt at 4.0'.		
5'					
6'			Bottom of exploration		
7'					

Comments:



BORING LOG

Project: North Terminal Dredging Phase 1			Boring No: M415	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2695257.30	Easting: 815018.69	Date: 04/07/2003		
Length: 5'	Recovery: 3.5'			
Drill Company: CR	Method: Vibracore			
Driller: Ray & Sal	Log By: TM			

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-1.5	OL/OH	Black organic silt.	M415-1 (0-1.5')	
2'	1.5-2	SW	Fine brown sand.		
	2-2.4	SM	Light gray silty sand. Fine grained.		
3'	2.4-3.5	SW	Coarse sand and gravel (cobbles approx. 2") with little silt.		
4'			Bottom of exploration		
5'					
6'					
7'					

Comments:



BORING LOG

Project: North Terminal Dredging Phase 1			Boring No: M416	
Location: New Bedford, MA		Project No: 6505.009.01		See Site Map for Boring Locations
Northing: 2695068.75	Easting: 814643.74	Date: 04/07/2003		
Length: 5'	Recovery: 3.4'			
Drill Company: CR		Method: Vibracore		
Driller: Ray & Sal		Log By: TM		

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%	Sample ID	Notes
1'	0-0.9	OL/OH	Black organic silt with shell and wood fragment, sheen noted.	M416-1 (1-0.9')	
2'	0.9-3.4	OH	Blue/gray clay with fine sand and silt, cohesive.		
3'					
4'			Bottom of exploration		
5'					
6'					
7'					

Comments: Three photos taken.



BORING LOG

Project:	North Terminal Dredging Phase 1	Boring No:	M417
Location:	New Bedford, MA	Project No:	6505.009.01
Northing:	2695009.09	Easting:	814731.64
Length:	5'	Recovery:	1.8'
Drill Company:	CR	Method:	Vibracore
Driller:	Ray & Sal	Log By:	TM

See Site Map for Boring Locations

Depth (FT.)	Interval (feet)	USCS Class	Description (Color, Texture, Structure)	Sample ID	Notes
			Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%		
1'	0-1.3	OL/OH	Black organic silt with trace fine sand and some shell fragments.	M417-1 (0-1.3')	
2'	1.3-1.8	SM	Gray fine sand and silt, cohesive.		
3'			Bottom of exploration		
4'					
5'					
6'					
7'					

Comments: 13:44- No recovery
 13:54- 1/2' recovery, wood, shells, etc. Point moved North 50'. No refusal.
 14:03- 5'/1.8', 1.3' OL/OH, 0.5' clay. No refusal.
 14:13- 1.5'?, OL/OH. No refusal.
 14:20- 2'/1.2', 0.9' OL/OH, 0.3' clay.
 14:29- 1.2'?, 0.6' OL/OH, 0.6' yellow layered clay with fine sand (see photo).

MAGUIRE GROUP INC.

VIBRACORE LOG

PROJECT: 16421 - MACZM - DMMP
 LOCATION: New Bedford Harbor, MA
 DRILLING CO: CR Environmental
 EQUIPMENT: Cyprinodon
 DRILLED BY: Capt. Eric Steele
 INSPECTED BY: Dorian Bertram

BORING NO. NBH-201-SED
 PAGE 1 OF 1
 DATE STARTED: 10/10/2002
 DATE FINISHED: 10/10/2002
 SEDIMENT ELEVATION 33.5 Feet

Location Coordinates
 817,019 m E
 2,690,933 m N

	CASING	SAMPLER	CORE BAR
TYPE:	<u>VibraCore</u>	<u>PE Liner</u>	<u> </u>
SIZE ID:	<u>4"</u>	<u>4"</u>	<u> </u>
PENETRATION:	<u>12'</u>	<u>12'</u>	<u> </u>

SAMPLE DATA

DEPTH (ft)	SAMPLING DEPTH FROM - TO	STRATA CHANGE (ft)	LITHOLOGY (Description of materials)	SAMPLE ID	PEN/RECOV (in./in.)	HNU
	0-1.5		MARINE: SILT; organic Silt, dark gray, slight sheen, shell fragments, saturated.	S-1	126/126	
	1.5-3.3			S-2		
	3.3-5		MARINE: SANDY SILT; organic Silt, 10-15% fine Sand, dark gray, saturated.	S-3		
5.0						
			GRAVELLY SAND; 10-15% fine sub-rounded Gravel, coarse to fine Sand, brown, saturated.			
10.0						
			Bottom of Vibracore - 10.5'			
15.0						
20.0						

GENERAL REMARKS:

MAGUIRE GROUP INC.

VIBRACORE LOG

PROJECT: 16421 - MACZM - DMMP
 LOCATION: New Bedford Harbor, MA
 DRILLING CO: CR Environmental
 EQUIPMENT: Cyprinodon
 DRILLED BY: Capt. Eric Steele
 INSPECTED BY: Dorian Bertram

BORING NO. NBH-202-SED
 PAGE 1 OF 1
 DATE STARTED: 10/10/2002
 DATE FINISHED: 10/10/2002
 SEDIMENT ELEVATION: Not Determined

Location Coordinates
 816,046 m E
 2,691,483 m N

	CASING	SAMPLER	CORE BAR
TYPE:	VibraCore	PE Liner	
SIZE ID:	4"	4"	
PENETRATION:	12'	12'	

SAMPLE DATA

DEPTH (ft)	SAMPLING DEPTH FROM - TO	STRATA CHANGE (ft)	LITHOLOGY (Description of materials)	SAMPLE ID	PEN/RECOV (in./in.)
	0-2		MARINE: SILT; organic Silt, <5% fine Sand, sheen, black, saturated.	S-2	64/64
	2-4		MARINE: SILTY CLAY; non-plastic Clay, organic Silt, gray, saturated.	S-2	
5.0	4-5.3		MISCELLANEOUS FILL: SILTY SAND; medium to fine Sand, 10-15% organic non-plastic fines, shell and metal fragments.	S-3	
10.0			Bottom of Vibracore - 5.3'		
15.0					
20.0					

GENERAL REMARKS:

MAGUIRE GROUP INC.

VIBRACORE LOG

PROJECT: 16421 - MACZM - DMMP
 LOCATION: New Bedford Harbor, MA
 DRILLING CO: CR Environmental
 EQUIPMENT: Cyprinodon
 DRILLED BY: Capt. Eric Steele
 INSPECTED BY: Dorian Bertram

BORING NO. NBH-203-SED
 PAGE 1 OF 1
 DATE STARTED: 10/10/2002
 DATE FINISHED: 10/10/2002
 SEDIMENT ELEVATION: Not Determined

Location Coordinates
 816,497 m E
 2,691,987 m N

	CASING	SAMPLER	CORE BAR
TYPE:	<u>VibraCore</u>	<u>PE Liner</u>	<u> </u>
SIZE ID:	<u>4"</u>	<u>4"</u>	<u> </u>
PENETRATION:	<u>12'</u>	<u>12'</u>	<u> </u>

SAMPLE DATA

DEPTH (ft)	SAMPLING DEPTH FROM - TO	STRATA CHANGE (ft)	LITHOLOGY (Description of materials)	SAMPLE ID	PEN/ RECOV (in./in.)
	0-2.7		MARINE: SILTY CLAY; non-plastic Clay, organic Silt, gray, saturated.	S-1	60/60
	2.7-5		GRAVELLY SILTY SAND; 10-15% coarse to fine Gravel, coarse to fine Sand, 10-15% non-plastic organic Fines, gray, saturated.	S-2	
5.0					
			Bottom of Vibracore - 5'		
10.0					
15.0					
20.0					

GENERAL REMARKS:

MAGUIRE GROUP INC.

PROJECT: 16421 - MACZM - DMMP

LOCATION: New Bedford Harbor, MA

DRILLING CO: CR Environmental

EQUIPMENT: Cyprinodon

DRILLED BY: Capt. Eric Steele

INSPECTED BY: Dorian Bertram

VIBRACORE LOG

BORING NO. NBH-204-SED

PAGE 1 OF 1

DATE STARTED: 10/10/2002

DATE FINISHED: 10/10/2002

SEDIMENT ELEVATION: Not Determined

Location Coordinates
 817,274 m E
 2,695,483 m N

	CASING	SAMPLER	CORE BAR
TYPE:	<u>VibraCore</u>	<u>PE Liner</u>	
SIZE ID:	<u>4"</u>	<u>4"</u>	
PENETRATION:	<u>12'</u>	<u>12'</u>	

SAMPLE DATA

DEPTH (ft)	SAMPLING DEPTH FROM - TO	STRATA CHANGE (ft)	LITHOLOGY (Description of materials)	SAMPLE ID	PEN/ RECOV (in./in.)	
	0-1.5		MARINE: SILTY SAND; medium to fine Sand, organic non-plastic Fines, shell fragments and quahogs, charcoal gray to olive, saturated.	S-1	56/56	
	1.5-2.2		MARINE: SAND; medium to fine Sand, olive, saturated.	S-2		
	2.2-4.6		MARINE: CLAY; inorganic and organic non-plastic Clay.	S-3		
5.0			Bottom of Vibracore - 4.6'			
10.0						
15.0						
20.0						

GENERAL REMARKS:

MAGUIRE GROUP INC.

VIBRACORE LOG

PROJECT: 16421 - MACZM - DMMP
 LOCATION: New Bedford Harbor, MA
 DRILLING CO: CR Environmental
 EQUIPMENT: Cyprinodon
 DRILLED BY: Capt. Eric Steele
 INSPECTED BY: Dorian Bertram

BORING NO. NBH-205-SED
 PAGE 1 OF 1
 DATE STARTED: 10/10/2002
 DATE FINISHED: 10/10/2002
 SEDIMENT ELEVATION: Not Determined

Location Coordinates
 816,178 m E
 2,696,663 m N

	CASING	SAMPLER	CORE BAR
TYPE:	<u>VibraCore</u>	<u>PE Liner</u>	
SIZE ID:	<u>4"</u>	<u>4"</u>	
PENETRATION:	<u>12'</u>	<u>12'</u>	

SAMPLE DATA

DEPTH (ft)	SAMPLING DEPTH FROM - TO	STRATA CHANGE (ft)	LITHOLOGY (Description of materials)	SAMPLE ID	PEN/RECOV (in./in.)
	0-2		MARINE: SILT; inorganic non-plastic Silt, shell hash, wood debris, peat, dark gray to olive gray, saturated.	S-1	150/150
	2-4		MARINE: SILT; inorganic non-plastic Silt, gray, saturated.	S-2	
5.0	4-6		MARINE: SILT; SAME AS ABOVE.	S-3	
10.0	6-8		MARINE: SILT; SAME AS ABOVE.	S-4	
15.0			Bottom of Vibracore - 12.5'		
20.0					

GENERAL REMARKS:

MAGUIRE GROUP INC.

VIBRACORE LOG

PROJECT: 16421 - MACZM - DMMP
 LOCATION: New Bedford Harbor, MA
 DRILLING CO: CR Environmental
 EQUIPMENT: Cyprinodon
 DRILLED BY: Capt. Eric Steele
 INSPECTED BY: Dorian Bertram

BORING NO. NBH-206-SED
 PAGE 1 OF 1
 DATE STARTED: 10/10/2002
 DATE FINISHED: 10/10/2002
 SEDIMENT ELEVATION Not Determined

Location Coordinates
 816,044 m E
 2,696,107 m N

	CASING	SAMPLER	CORE BAR
TYPE:	VibraCore	PE Liner	
SIZE ID:	4"	4"	
PENETRATION:	12'	12'	

SAMPLE DATA

DEPTH (ft)	SAMPLING DEPTH FROM - TO	STRATA CHANGE (ft)	LITHOLOGY (Description of materials)	SAMPLE ID	PEN/ RECOV (in./in.)
	0-2		MARINE: SILT; organic non-plastic Silt, shell hash, gray, saturated.	S-1	144/144
	2-4		MARINE: SILT; SAME AS ABOVE.	S-2	
5.0	4-6		MARINE: SILT; SAME AS ABOVE.	S-3	
	6-7		MARINE: SILT; SAME AS ABOVE.	S-4	
10.0					
15.0			Bottom of Vibracore - 12'		
20.0					

GENERAL REMARKS: