RETURN TO UAO AR INDEX

Appendix A

Field Sampling Logs

This page intentionally left blank

Pre-dredge Sediments

This page intentionally left blank

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** G.F.
Client: *USACE NAE* **Chief Scientist:** D M [illegible]

Station ID:	K18	Time On Station:	1341	**All measurements are ±0.1 feet**	
Core Sample ID:	5-07A-pK18-08-19	Northing (NAD 83):	855784.60	Water Depth (*A*):	~~3.8'~~ 3.7' (1)
Logged by:	AM / MW	Easting (NAD 83):	2707343.84	Length of push core assembly (*B*):	9.0'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	5.35	Water surface to top of handle (*C*):	3.2'
Date:	6/6/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.9'
		Time of Collection:	1356	Surveyed elevation (NVGD 29) (*E*):	~~2.5'~~ ~~3.2'~~ (1)
		Time Depart Station:	14:03	Water surface from surveyed elevation (*F*):	— 2.0 (2)

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.0'
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.7
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.9			silt	Black	loose	fine			
					Black/gray					
	0.4			clay	olive gray	stiff	fine			
	0.0									

File ID of digital photograph(s):

Comments:
(1) Tide dropped while on station.
(2) Tide Board correction. Jacobs identified error in tide board placement. impacted all cores collected on 6/6/07 by -0.17 (0.2')

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** GP
Client: *USACE NAE* **Chief Scientist:** W.D. Am

Station ID:	019	Time On Station:	14:14	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0019-00-11	Northing (NAD 83):	815841.12	Water Depth (*A*):	3.4'
Logged by:	AW/MW	Easting (NAD 83):	2707310.65	Length of push core assembly (*B*):	7.0'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	4.21	Water surface to top of handle (*C*):	1.9'
Date:	6/6/07	Predicted Tide (ft):	/	Length of core (from bottom) (*D*):	1.1
		Time of Collection:	14:16	Surveyed elevation (NVGD 29) (*E*):	~~1.9~~ 1.7' AW (1)
		Time Depart Station:	14:20	Water surface from surveyed elevation (*F*):	—

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.7
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.1			Silt	Black	loose	Fine			
0.5									
0.0			Clay	Olive gray	Stiff	Fine			

File ID of digital photograph(s):

Comments:
Strong H_2S odor
(1) Tide board correction. Jacobs identified error in Tide board placement
Impacted all cores collected on 6/6/07 by -0.17 (0.2')

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** 6F
Client: *USACE NAE* **Chief Scientist:**

Station ID:	T20	Time On Station:	1428	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0T20-00-19	Northing (NAD 83):	2707283.63	Water Depth (*A*):	3.5'
Logged by:	MW/MW	Easting (NAD 83):	816020.72	Length of push core assembly (*B*):	7.0'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	4.94	Water surface to top of handle (*C*):	1.2'
Date:	6/6/07	Predicted Tide (ft):	/	Length of core (from bottom) (*D*):	1.9
		Time of Collection:	1432	Surveyed elevation (NVGD 29) (*E*):	1.7'
		Time Depart Station:	1435	Water surface from surveyed elevation (*F*):	/

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.8
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.9			Silt	Black	loose	fine			
	0.9			Clay with shells	olive gray	stiff	fine			
	0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** GF
Client: *USACE NAE* **Chief Scientist:**

Station ID:	W20	Time On Station:	1440	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0W20-00-22	Northing (NAD 83):	2707288.3	Water Depth (*A*):	3.3'
Logged by:	AM / MW	Easting (NAD 83):	816086.07	Length of push core assembly (*B*):	7.0'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.25	Water surface to top of handle (*C*):	1.2'
Date:	6/6/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.2
		Time of Collection:	1449	Surveyed elevation (NVGD 29) (*E*):	~~1.5~~ (1) 1.3
		Time Depart Station:	1452	Water surface from surveyed elevation (*F*):	—

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.0
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2			Silt	Black	loose	fine			
1.5									Blurred: Clay/Silt
1.1			Clay	olive gray	stiff	fine			
0.0									

File ID of digital photograph(s):

Comments:

(1) Tide board correction

8.2-

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** GF
Client: *USACE NAE* **Chief Scientist:**

1ST ATTEMPT 2ND ATTEMPT

Station ID:	620	Time On Station:	1508	**All measurements are ±0.1 feet**		
Core Sample ID:	S-07A-0620-00-32	Northing (NAD 83):	2707289.56	Water Depth (*A*):	~~3.0~~ ~~2.8~~	2.6'
Logged by:	AW/MW	Easting (NAD 83):	815686.83	Length of push core assembly (*B*):	20' ~~8.2~~	8.2'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.41	Water surface to top of handle (*C*):	~~1.1~~ ~~2.9~~	2.0'
Date:	6/6/07	Predicted Tide (ft):	1ST core —	Length of core (from bottom) (*D*):	3.2	
		Time of Collection:	~~1511~~ 1529	Surveyed elevation (NVGD 29) (*E*):	~~-7~~	
		Time Depart Station:	15:31	Water surface from surveyed elevation (*F*):	~~-2~~ 0.5	(1)

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.1
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

8.2
-2.1
5.6
2.0
3.6

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.2			OL silt	Black	loose	fine			
1.3			Clay	olive gray	stiff	fine			
0.0									

File ID of digital photograph(s):

Comments:
1st sample N/G
2nd sample N/G
(1) Tide board correction

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	C16	Time On Station:	1108	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-DC16-00-24	Northing (NAD 83):	2707387.11	Water Depth (*A*):	@2.7 2.15
Logged by:	TH / JMF	Easting (NAD 83):	815585.30	Length of push core assembly (*B*):	@7 7
Collection Mechanism:	*Push-Core*	GPS Accuracy:	4.06	Water surface to top of handle (*C*):	@2.8 2.8
Date:	6/7/07	Predicted Tide (ft):	@ 1.9	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	@ HT 1120	Surveyed elevation (NVGD 29) (*E*):	~~1.3~~ NA
		Time Depart Station:	1122	Water surface from surveyed elevation (*F*):	1.4 TH

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-0.75
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4 ~~0.0~~				OL Silt	Black	loose	fine	—		
-1.1				clay	olive gray	stiff	fine			
~~2.4~~ 0.0										

File ID of digital photograph(s):

Comments:

(1) Attempt #1 - slightly short on recovery

Pictures taken ID 101-0696

(2) JMF 6/7/07

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	L13	Time On Station:	11:45	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0L13-00-1	Northing (NAD 83):	2707465.4	Water Depth (*A*):	2.8
Logged by:	JMF / TH	Easting (NAD 83):	815812.6	Length of push core assembly (*B*):	7
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.86	Water surface to top of handle (*C*):	~~2~~ 1.3
Date:	6-7-07	Predicted Tide (ft):	~~1.7~~	Length of core (from bottom) (*D*):	2.3
		Time of Collection:	JMF ~~1145~~ 1148	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1150	Water surface from surveyed elevation (*F*):	1.9

Caiculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.9'
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.8'
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.9'
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.5'
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD). *G - A*	-0.9'
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.3			OL ~~SILT~~	OL SILT ~~Black~~	Black ~~loose~~	loose ~~fine~~	fine			
0.9			CLAY	CLAY ~~Olive~~ ~~gray~~	Gray ~~stiff~~	stiff ~~fine~~	fine			
0.0										

File ID of digital photograph(s):

Comments:

P.C # 0699

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* | Project #: *G606422*
Location: *New Bedford, MA* | Vessel:
Client: *USACE NAE* | Chief Scientist:

Station ID:	C9	Time On Station:	1210	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0009-00-21	Northing (NAD 83):	2707562.3	Water Depth (*A*):	5.3
Logged by:	JF/MW	Easting (NAD 83):	815588.8	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.27	Water surface to top of handle (*C*):	3.3
Date:	6/7/07	Predicted Tide (ft):	~~2.3~~	Length of core (from bottom) (*D*):	2.1
		Time of Collection:	1214	Surveyed elevation (NVGD 29) (*E*):	/
		Time Depart Station:	1215	Water surface from surveyed elevation (*F*):	2.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.0
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
21			~~OL~~ ~~Silt~~	OL Silt	Black	loose	fine			
1.1			~~Clay~~	Clay	Gray	stiff	fine			
.00										

File ID of digital photograph(s):

Comments:

Pic # 0701

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* | Project #: *G606422*
Location: *New Bedford, MA* | Vessel:
Client: *USACE NAE* | Chief Scientist:

Station ID:	K9	Time On Station:	1224	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0K09-00-19	Northing (NAD 83):	2707882.87	Water Depth (*A*):	~~2.13~~
Logged by:	JMF/MW	Easting (NAD 83):	815795.1	Length of push core assembly (*B*):	7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.04	Water surface to top of handle (*C*):	~~1.48~~ 1.6
Date:	6/7/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.9
		Time of Collection:	12:35	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	12:37	Water surface from surveyed elevation (*F*):	2.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-2.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-0.7
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD)	(i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.9					OL SILT	Black	loose	fine			
0.8					clay	Gray	stiff	fine			
0.0											

File ID of digital photograph(s):

Comments:

1st 2 attempts not deep enough

Pic # 0702

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	2234	Time On Station:	11:29	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-2234-00-~~16~~ 17	Northing (NAD 83):	2704598.25	Water Depth (*A*):	3.4'
Logged by:	TH ~~16~~ TH	Easting (NAD 83):	815623.5	Length of push core assembly (*B*):	7'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.47	Water surface to top of handle (*C*):	1.7
Date:	6-8-07	Predicted Tide (ft):	/	Length of core (from bottom) (*D*):	~~1.6~~ 1.7 TH
		Time of Collection:	11:38	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	11:45	Water surface from surveyed elevation (*F*):	0.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.6
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.7			OL silt	Black	loose	fine			
0.9'			clay	olive-gray	stiff	fine			
0.0									

File ID of digital photograph(s):

Comments:

PIC = # 0759

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	AAA39	Time On Station:	12:02	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-AAA39-00-12	Northing (NAD 83):	~~27044650.6~~	Water Depth (*A*):	3.0
Logged by:	TH	Easting (NAD 83):	TH ~~815640.6~~	Length of push core assembly (*B*):	7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.29	Water surface to top of handle (*C*):	2.6
Date:	6/8/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	12:12	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	12:15	Water surface from surveyed elevation (*F*):	1.3'

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.7
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.2'			BL-silt/organic	dark brown	loose	fine-med	sand	—	entire core appears to be ~~to~~ silty sand color notably lighter from 0.0 to 0.4
	0.4'			clay/sand	lighter brown	stiff	~~fine~~ f-med sand			
	0									
										TH N = 27044665.6 E - 815638.4

File ID of digital photograph(s):

Comments:

Pic # 0711

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	AAA28	Time On Station:	1220	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-AA~~A~~-13	Northing (NAD 83):	2704737.92	Water Depth (*A*):	4.1'
Logged by:	MW/TH	Easting (NAD 83):	815639.02	Length of push core assembly (*B*):	8'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.2	Water surface to top of handle (*C*):	2.4'
Date:	6/8/2007	Predicted Tide (ft):	/	Length of core (from bottom) (*D*):	1.3
		Time of Collection:	1225	Surveyed elevation (NVGD 29) (*E*):	/
		Time Depart Station:	1227	Water surface from surveyed elevation (*F*):	1.5'

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.7
(l)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.8
(l_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.6
	(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)	/

	Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.3			OL silt	black	loose	fine			
	0.4	–	–	–	–	–	–	–	–	
	0.0			clay	olive-gray	stiff/firm	fine			

File ID of digital photograph(s):

Comments: Pic = 0712

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	0416	Time On Station:	1244	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0416-00-16	Northing (NAD 83):	2707388.2	Water Depth (*A*):	~~3.5~~ 3.6' TH
Logged by:	TH	Easting (NAD 83):	816038.8	Length of push core assembly (*B*):	7'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.95	Water surface to top of handle (*C*):	~~2.0~~ 1.6' TH
Date:	6/8/2007	Predicted Tide (ft):	/	Length of core (from bottom) (*D*):	~~1.4~~ 1.6' TH
		Time of Collection:	~~1250~~ 1300	Surveyed elevation (NVGD 29) (*E*):	/
		Time Depart Station:	1304	Water surface from surveyed elevation (*F*):	~~2.3~~ 2.4 TH

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.2
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.6			OL silt	Black	loose	fine	—	—	—
	0.7'	—	—	—	—	—	—			
	0.0			Clay	olive-gray	firm/stiff	fine			

File ID of digital photograph(s):

Comments:
1st Attempt MG
Pic #0713

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	U12	Time On Station:	1308	**All measurements are ±0.1 feet**	
Core Sample ID:	5-07A-Ø012-00-10	Northing (NAD 83):	2707487.5	Water Depth (*A*):	3.6'
Logged by:	MW	Easting (NAD 83):	816049.1	Length of push core assembly (*B*):	7.5'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.09	Water surface to top of handle (*C*):	2.7
Date:	6/8/2007	Predicted Tide (ft):	/	Length of core (from bottom) (*D*):	1.0
		Time of Collection:	1313	Surveyed elevation (NVGD 29) (*E*):	/
		Time Depart Station:	1315	Water surface from surveyed elevation (*F*):	2.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-2.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.2
(l)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.3
(l_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.1
	(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)	/

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0'			OL silt	Black	loose	fine			
0.1'									
0.0			clay	olive-gray	stiff	fine			

File ID of digital photograph(s):

Comments:
PIC # Ø715

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* | Project #: *G606422*
Location: *New Bedford, MA* | Vessel:
Client: *USACE NAE* | Chief Scientist:

Station ID:	R2	Time On Station:	13:25	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0R01-00-29	Northing (NAD 83):	~~207~~ 270772.5	Water Depth (*A*):	3.0
Logged by:	TH 25 TH	Easting (NAD 83):	815961.65	Length of push core assembly (*B*):	7
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.04 .5 TH	Water surface to top of handle (*C*):	1.1
Date:	6/8/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~2.9~~ 2.5 TH
		Time of Collection:	1352	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1335	Water surface from surveyed elevation (*F*):	2.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-1.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-0.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-0.2
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.5			ov silt	Black	loose	fine			
	1.3'	—	—	clay	olive-gray	firm	fine	—	—	
	0.0									

File ID of digital photograph(s):

Comments:
PIC# 0717

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* | Project #: *G606422*
Location: *New Bedford, MA* | Vessel:
Client: *USACE NAE* | Chief Scientist:

Station ID:	R4	Time On Station:	12:40	**All measurements are ±0.1 feet**	
Core Sample ID:	S07A-QR04-00-25	Northing (NAD 83):	2707698.8	Water Depth (*A*):	3.3
Logged by:	TH	Easting (NAD 83):	815976.9	Length of push core assembly (*B*):	7
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.9	Water surface to top of handle (*C*):	0.9'
Date:	6/9/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~2.4'~~ 2.5' TH
		Time of Collection:	1345	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	13:50	Water surface from surveyed elevation (*F*):	2.9'

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.9'
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-0.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-0.4
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and re-sample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.5'			silt	Black	loose	fine			
	1.1'			clay	olive-gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:

Sheen noted during collection

Pic = 0718

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	N4	Time On Station:	1354	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0N04-00-18	Northing (NAD 83):	2707703.1	Water Depth (*A*):	~~3.5~~ 3.5
Logged by:	MW / TH	Easting (NAD 83):	815874.9	Length of push core assembly (*B*):	7'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.06	Water surface to top of handle (*C*):	1.5
Date:	6/8/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~1.7~~ sb 1.8 TH
		Time of Collection:	1387 1400	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1403	Water surface from surveyed elevation (*F*):	2.9

Calculations for Determination of Z* Elevation

(*G*)	Elevation of Water Surface (NVGD): *E - F*	2.9
(*H*)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-2.6
(*z**)	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.2
(*I*)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-0.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-0.6
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.8'			silt	black	loose	fine			
	0.4'			—	—	—	—	—	—	—
	0.0'			clay	olive-gray	firm	fine			

File ID of digital photograph(s):

Comments:
slight sheen 1st attempt NG TH short

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	K1	Time On Station:	1408	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-QK01-00-20	Northing (NAD 83):	270776.1	Water Depth (*A*):	3.5
Logged by:	MW/TH	Easting (NAD 83):	815799.75	Length of push core assembly (*B*):	7'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.17	Water surface to top of handle (*C*):	1.3'
Date:	6/8/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~1.9~~ 2.0' TH
		Time of Collection:	1411	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1417	Water surface from surveyed elevation (*F*):	3.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	3.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-2.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-1.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-0.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-0.4
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.0'			silt	black	loose	fine			
0.7'									
0.0'			clay	olive-gray	firm	fine			

File ID of digital photograph(s):

Comments:

PIC# 1721

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	E1	Time On Station:	1423	**All measurements are ±0.1 feet**	
Core Sample ID:	507A-DE01-00-18	Northing (NAD 83):	2707762.5	Water Depth (*A*):	4.7
Logged by:	mw/TH	Easting (NAD 83):	815638.3	Length of push core assembly (*B*):	7'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.9	Water surface to top of handle (*C*):	1.2'
Date:	6/8/2007	Predicted Tide (ft):	/	Length of core (from bottom) (*D*):	1.0'
		Time of Collection:	1425	Surveyed elevation (NVGD 29) (*E*):	/
		Time Depart Station:	1427	Water surface from surveyed elevation (*F*):	3.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	3.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-2.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-1.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.5
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.0			silt	black	loose	fine			
	0.8			med sand	Brown-gray.	hard.	MD-CS.			
	0.0			silty			SD.			

File ID of digital photograph(s):

Comments:

PC ID = 9722

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	I4	Time On Station:	14.35	**All measurements are ±0.1 feet**	
Core Sample ID:	S-09A-ΦIΦ4-ΦΦ-15	Northing (NAD 83):	2707681.9	Water Depth (*A*):	3.9'
Logged by:	MW/TH	Easting (NAD 83):	815736.1	Length of push core assembly (*B*):	8'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.00	Water surface to top of handle (*C*):	2.6
Date:	6/8/2007	Predicted Tide (ft):	/	Length of core (from bottom) (*D*):	~~1.3~~ 5/6 1.5 TH
		Time of Collection:	1439	Surveyed elevation (NVGD 29) (*E*):	/
		Time Depart Station:	1442	Water surface from surveyed elevation (*F*):	3.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD). *E - F*	3.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-2.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-1.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-0.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-0.8
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5			~~St~~ Silt	Black	loose	fine			
0.8									
0.4									Blurred transition from 0.4 to 0.8'
0.0			clay	olive-gray	mod firm	fine			

File ID of digital photograph(s):

Comments:
Pic # 0723

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	~~K9~~ Q11	Time On Station:	1447	**All measurements are ±0.1 feet**	
Core Sample ID:	S07A-Q11-08-21	Northing (NAD 83):	2707527.2	Water Depth (*A*):	4.1'
Logged by:	MW	Easting (NAD 83):	815938.3	Length of push core assembly (*B*):	7'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.99	Water surface to top of handle (*C*):	.7
Date:	6/8/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~3.0~~ slb
		Time of Collection:	1449	Surveyed elevation (NVGD 29) (*E*):	— 21
		Time Depart Station:	1454	Water surface from surveyed elevation (*F*):	3.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	3.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.0
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.1			silt	Black	loose	fine			
	0.8'			clay	olive gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments: PIC ID = 0725

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	Q16	Time On Station:	1459	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-Q016-~~00~~-17	Northing (NAD 83):	2707387.3	Water Depth (*A*):	4.4
Logged by:	MW/TH	Easting (NAD 83):	815936.4	Length of push core assembly (*B*):	9
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.56	Water surface to top of handle (*C*):	2.8
Date:	6/8/2007	Predicted Tide (ft):	/	Length of core (from bottom) (*D*):	~~1.6~~ sb 1.7 TH
		Time of Collection:	1501	Surveyed elevation (NVGD 29) (*E*):	/
		Time Depart Station:	1505	Water surface from surveyed elevation (*F*):	2.9

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.9
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.9
(l)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.6
(l_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.5
	(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)	/

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.7									
	0.6			Silt	Black	loose	fine			
	0.4			clay	olive gray	firm	fine			Blurred transition from 0.4 to 0.6'
	0.0									

File ID of digital photograph(s):

Comments:

PIC ID = 0728

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	C5	Time On Station:	1513	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0C05-00-13	Northing (NAD 83):	2707673.6	Water Depth (*A*):	5.8'
Logged by:	MW / TH	Easting (NAD 83):	815601.4	Length of push core assembly (*B*):	9'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.48	Water surface to top of handle (*C*):	2.0
Date:	6/8/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~1.5~~ sl 1.3 TH
		Time of Collection:	1514	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1516	Water surface from surveyed elevation (*F*):	2.9

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): ***E - F***	2.9
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.9
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.3									
	0.7'	—	—	—	silt	black	loose	fine	—	—
	0.0				sand/clay w/ peat?	light brown	firm	f-m sand		

File ID of digital photograph(s):

Comments: PIC=0730

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	2223	Time On Station:	1534	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-2223-00-12	Northing (NAD 83):	270482.2	Water Depth (*A*):	5.8'
Logged by:	MW/TH	Easting (NAD 83):	815613.4	Length of push core assembly (*B*):	9'
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.38	Water surface to top of handle (*C*):	2.0'
Date:	6/8/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~1.15~~ ≤1.2 TH
		Time of Collection:	1536	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1539	Water surface from surveyed elevation (*F*):	2.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.3
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.2									
	0.5'	—	—	silt	black	loose	fine	—	—	
	0.0			clay	olive gray	firm	fine			

File ID of digital photograph(s):

Comments: PIC = 0733

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	GG35	Time On Station:	1022	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-GG35-00-17	Northing (NAD 83):	2704563.9	Water Depth (*A*):	~~3.5~~ 3.3
Logged by:	MW / TH	Easting (NAD 83):	815138.4	Length of push core assembly (*B*):	~~8.0~~ 7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.01	Water surface to top of handle (*C*):	~~1.6~~ 1.7
Date:	6/11/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.7
		Time of Collection:	~~1036~~ 1034	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	10:36	Water surface from surveyed elevation (*F*):	~~-1.0~~ -.9

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.9
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.2
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.7									
				silt	black	loose	fine			
	0.8'									
				clay	olive-gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:
1st Attempt NG can penetrated
Pic #0705

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	G633	Time On Station:	1039	**All measurements are ±0.1 feet**	
Core Sample ID:	S07A-G633-00-22	Northing (NAD 83):	2704624.8	Water Depth (*A*):	3.2
Logged by:	MW	Easting (NAD 83):	815149.5	Length of push core assembly (*B*):	7.9
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.58	Water surface to top of handle (*C*):	~~2.4~~ 2.2
Date:	6/11/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~2.4~~ slb. 2.2 TH
		Time of Collection:	~~1045~~ 1052	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1056	Water surface from surveyed elevation (*F*):	-.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.0
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.2			silt	black	loose	fine			
	1.2			clay	olive gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:
1st Attmpt NG
Pic # 0706

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	FF28	Time On Station:	1101	**All measurements are ±0.1 feet**	
Core Sample ID:	5-07A-FF28-00-21	Northing (NAD 83):	2704737.1	Water Depth (*A*):	3.4
Logged by:	MW	Easting (NAD 83):	815111.2	Length of push core assembly (*B*):	7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.43	Water surface to top of handle (*C*):	1.6
Date:	6/1/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~1.9~~ s/b 2.1
		Time of Collection:	1105	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1108	Water surface from surveyed elevation (*F*):	-.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.1
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.1			silt	black	loose	fine			
	0.8			clay	olive-gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments: PIC = 0704

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	FF23	Time On Station:	1112	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-FF23-00-13	Northing (NAD 83):	2704876.9	Water Depth (*A*):	3.8
Logged by:	MW/TH	Easting (NAD 83):	815123.3	Length of push core assembly (*B*):	7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.62	Water surface to top of handle (*C*):	1.8
Date:	6/11/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.3
		Time of Collection:	1115	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1120	Water surface from surveyed elevation (*F*):	-.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.5
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.3									
	0.8									
	0.4			silt	black	loose	fine			
	0.0			clay	olive gray	firm	fine			

File ID of digital photograph(s):

Comments:

0.0 to 0.4' native clay.
0.4 to 0.8' likely native material - slightly darker in color - likely due to smearing. TH ~~6/8~~ 6/11/07

Pic = 0707

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	9A22	Time On Station:	1126	**All measurements are ±0.1 feet**	
Core Sample ID:		Northing (NAD 83):	270488.71	Water Depth (*A*):	~~2.5~~ 2.3
Logged by:	MW	Easting (NAD 83):	815000.4	Length of push core assembly (*B*):	~~5.7~~ 8.1
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.68	Water surface to top of handle (*C*):	~~2.0~~ 2.3
Date:	6/11/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	
		Time of Collection:	~~1137~~	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:		Water surface from surveyed elevation (*F*):	~~-2.6~~

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F*

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)*

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)*

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments

needs to be resampled

File ID of digital photograph(s):

Comments:
1st Attempt NG (sheen)
1140 - need longer core Tube and need higher tide / Did not collect core. MW 6/11/07

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	Q11	Time On Station:		**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0Q11-00	Northing (NAD 83):		Water Depth (*A*):	
Logged by:	JMF	Easting (NAD 83):		Length of push core assembly (*B*):	
Collection Mechanism:	*Push-Core*	GPS Accuracy:		Water surface to top of handle (*C*):	
Date:	6/7/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	
		Time of Collection:		Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:		Water surface from surveyed elevation (*F*):	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F*

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)*

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)*

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments

NA JMF

File ID of digital photograph(s):

Comments:

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	DD40	Time On Station:	0939	**All measurements are ±0.1 feet**	
Core Sample ID:		Northing (NAD 83):	2704451.9	Water Depth (*A*):	~~3.6~~ ~~3.8~~ 3.6
Logged by:	MW	Easting (NAD 83):	815075.9	Length of push core assembly (*B*):	~~8.0~~ ~~9.0~~ 9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.46	Water surface to top of handle (*C*):	~~.8~~ ~~.6~~ .8
Date:	6/11/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	3.8'
		Time of Collection:	~~0913~~ ~~0915~~ 1010	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1015	Water surface from surveyed elevation (*F*):	-1.0

MW

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F*

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)*

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)*

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments

recovery not acceptable — will recollect 6/12/07 MH

File ID of digital photograph(s):

Comments:

1st Attempt NG (short)

2nd Attempt NG (strong H_2S odor) heavy sheen

3rd Attempt NG overpenetrated (sheen + odor)

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	LL23	Time On Station:	1145	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-LL23-[illegible]	Northing (NAD 83):	270487.8	Water Depth (*A*):	3.3
Logged by:	MW / TH	Easting (NAD 83):	815273.6	Length of push core assembly (*B*):	~~40~~ ~~5.7~~ 5.7
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.39	Water surface to top of handle (*C*):	~~30~~ ~~.5~~ 1
Date:	6/11/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	1150	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1151	Water surface from surveyed elevation (*F*):	-.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.9
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.2			silt	black	loose	fine			
	.5			clay	olive gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:
1st Attempt NG (too short)
2nd Good

Photo ID 0703

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	II39	Time On Station:	0854	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-II39-00-18	Northing (NAD 83):	2704472.1	Water Depth (*A*):	4.8
Logged by:	mW/TH	Easting (NAD 83):	815200.9	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	4.9	Water surface to top of handle (*C*):	1.4
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	0900	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	0902	Water surface from surveyed elevation (*F*):	.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.7
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8			silt	black	loose	fine			
0.9			clay	olive gray	moist firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
Pic # 0734

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	KK32	Time On Station:	0908	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-KK32-00-14	Northing (NAD 83):	2704649.8	Water Depth (*A*):	4.1
Logged by:	MW/TH	Easting (NAD 83):	815248.8	Length of push core assembly (*B*):	7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.35	Water surface to top of handle (*C*):	1.3
Date:	6/12/2007	Predicted Tide (ft):	/	Length of core (from bottom) (*D*):	~~1.35~~ s/b 1.4 TH
		Time of Collection:	0914	Surveyed elevation (NVGD 29) (*E*):	/
		Time Depart Station:	0917	Water surface from surveyed elevation (*F*):	0.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.1
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.4									
	0.4'	-	-	-	Silt	black	loose	fine	-	
					-	-	-			
	0.0				Clay	olive-gray	mod. firm	fine		

File ID of digital photograph(s):

Comments.

Pic # 0737

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	UU35	Time On Station:	0922	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-UU35-00-16	Northing (NAD 83):	2704562.9	Water Depth (*A*):	3.5
Logged by:	MW / TH	Easting (NAD 83):	815487.5	Length of push core assembly (*B*):	6.2
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.23	Water surface to top of handle (*C*):	1.0
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	0925	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	0930	Water surface from surveyed elevation (*F*):	-.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.8
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.6									
	0.6'			silt	black	loose	fine			
				clay	olive gray	mod firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:

PIC = 0739

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	UU30	Time On Station:	0938	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-UU30-00-23	Northing (NAD 83):	2704686.4	Water Depth (*A*):	~~3.3~~ 3.2
Logged by:	MW/TH	Easting (NAD 83):	815487.3	Length of push core assembly (*B*):	~~8.7~~ 7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy.	2.05	Water surface to top of handle (*C*):	~~1.7~~ 1.3
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.3
		Time of Collection:	~~0940~~ 0946	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	0950	Water surface from surveyed elevation (*F*):	-.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.7
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.3									
	1.1'	—	—	—	silt — clay	black — olive gray	loose — med firm	fine — fine	—	—
	0.0									

File ID of digital photograph(s):

Comments:
1st Attempt NG - not enough recovery

PIC = 0742

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	VV26	Time On Station:	0953	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-VV26-00-23	Northing (NAD 83):	2704798.7	Water Depth (*A*):	3.0
Logged by:	MW/TH	Easting (NAD 83):	815524.8	Length of push core assembly (*B*):	7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.27	Water surface to top of handle (*C*):	1.6
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~2.2~~ s/b 2.3 TH
		Time of Collection:	0956	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	0959	Water surface from surveyed elevation (*F*):	-.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.6
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.3									
			silt	black	loose	fine			
1.3			clay	olive grey	med firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

PIC = 0743

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	5523	Time On Station:	1004	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-5523-00-10	Northing (NAD 83):	2704875.9	Water Depth (*A*):	3.0
Logged by:	MW/JH	Easting (NAD 83):	815448.9	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.05	Water surface to top of handle (*C*):	3.9
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.0
		Time of Collection:	1006	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1010	Water surface from surveyed elevation (*F*):	-.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.8
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.0			SL						
	0.3	—	—	Silt	black	loose	fine	—	—	—
	0.0			—	—	—	—			
				clay	~~olive~~ ~~brown~~ olive gray	mod firm	fine			

File ID of digital photograph(s):

Comments:

PIC = 0745

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	QQ26	Time On Station:	1014	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-QQ26-00-24	Northing (NAD 83):	2704799.1	Water Depth (*A*):	~~2.8~~ 2.9
Logged by:	MW/TH	Easting (NAD 83):	815386.9	Length of push core assembly (*B*):	6.9
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.03	Water surface to top of handle (*C*):	~~1.9~~ 1.4
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~2.5~~ 2.4 TH
		Time of Collection:	~~1014~~ 1024	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1028	Water surface from surveyed elevation (*F*):	~~-1.0~~ -1.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.9
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4									
			silt	black	loose	fine			
0.9			clay	olive gray	mod firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
1st Attempt NG not enough penetration

P/C # 0747

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	QQ40	Time On Station:	1035	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-QQ40-00-25	Northing (NAD 83):	2704449.7	Water Depth (*A*):	3.2
Logged by:	MW/TH	Easting (NAD 83):	815399.6	Length of push core assembly (*B*):	8.1
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.96	Water surface to top of handle (*C*):	2.4
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~2.3~~ s/b 2.5 TH
		Time of Collection:	1037	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	10:39	Water surface from surveyed elevation (*F*):	-1.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.2
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5									
1.3'	— — —	—	silt — clay	black — olive gray	loose — mod firm	fine — fine	—	—	
0.0									

File ID of digital photograph(s):

Comments:

PIC = Φ748

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	0036	Time On Station:	1045	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0036-CO-19	Northing (NAD 83):	2704550.9	Water Depth (*A*):	~~3.1~~ 3.0
Logged by:	MW/TH 25TH	Easting (NAD 83):	815350.3	Length of push core assembly (*B*):	7.7
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.91	Water surface to top of handle (*C*):	~~2.1~~ ~~2.0~~ 1.9
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	~~1044~~ ~~1050~~ 1101	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1105	Water surface from surveyed elevation (*F*):	-1.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.2
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.5			Silt	black	loose	fine			
	1.4'			clay	olive gray	mod firm	fine			Transition may be as high as 1.6' from bottom - some streaking observed.
	0.0									

File ID of digital photograph(s):

Comments:
1st Attempt NG not enough ~~penetration~~ recovery
2nd Attempt NG not enough Recovery

PC = Ø749

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	NN29	Time On Station:	1107	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-NN29-00-20	Northing (NAD 83):	270477 11.6	Water Depth (*A*):	2.9
Logged by:	mw	Easting (NAD 83):	815311.9	Length of push core assembly (*B*):	7.6
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.6	Water surface to top of handle (*C*):	2.6
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~1.9~~ 2.0
		Time of Collection:	1110	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1114	Water surface from surveyed elevation (*F*):	-1.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.2
(l)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.2
(l_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.1
	(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.0'									
	1.0'	—	—	silt	black	loose	fine		—	—
				clay	olive	mod firm	fine			
	0.0'									

File ID of digital photograph(s):

Comments:

PIC = Ø 750

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	MM 25	Time On Station:	1115	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-MM25-~~00~~-17	Northing (NAD 83):	2704812.1	Water Depth (*A*):	2.6
Logged by:	MW	Easting (NAD 83):	815311.2	Length of push core assembly (*B*):	~~8.0~~ 7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.68	Water surface to top of handle (*C*):	~~2.9~~ 2.6
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~1.6~~ 5.6 1.7
		Time of Collection:	~~1115~~ ~~1123~~ 1128	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1131	Water surface from surveyed elevation (*F*):	-1.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.0
(l)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.0
(l_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.9
	(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.7									
	0.7-0.8'	—	—	silt	black	loose	fine	—	—	
				clay	olive grey	mod firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:

1st Attempt NG - not enough recovery
2nd Attempt NG - not enough recovery

PIC = 0753

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	JJ26	Time On Station:	1135	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A - JJ26 - 19	Northing (NAD 83):	270478.2	Water Depth (*A*):	~~2.6~~ ~~2.7~~ 2.8
Logged by:	MW	Easting (NAD 83):	815212.7	Length of push core assembly (*B*):	~~8.0~~ 6.5
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.45	Water surface to top of handle (*C*):	~~1.9~~ ~~1.9~~ 1.8
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~1.8~~ 1.9'
		Time of Collection:	~~1134~~ ~~1154~~ 1203	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1207	Water surface from surveyed elevation (*F*):	~~-1.1~~ -1.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.9
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.9									
0.9'	—	—	silt	black	loose	fine	—	—	
			clay	olive gray	mod. firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
1st Attempt NG - not enough recovery
2nd Attempt NG - not enough recovery

PIC = 0755

Battelle — The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	AA22	Time On Station:	1216	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-AA22-00-35	Northing (NAD 83):	270485.6	Water Depth (*A*):	~~14.20~~ 23
Logged by:	MW	Easting (NAD 83):	815001.7	Length of push core assembly (*B*):	~~10.0~~ 10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.06	Water surface to top of handle (*C*):	~~1.3~~ ~~1.3~~
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~3.15~~ 5.5'
		Time of Collection:	~~1220~~ ~~1222~~ ~~1223~~	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1335 → 1325	Water surface from surveyed elevation (*F*):	-.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.8
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
5.5									
			silt	black	loose	fine			gradual trans. from 1' to 0.6'
1.0'									
0.6			clay	olive gray	mod firm	fine			clay confirmed in BOC @ collection
0.0									

File ID of digital photograph(s):

Comments:
1st Attempt NG - Plunger slipped Heavy Sheen + chemical odor
2nd Attempt NG - not enough recovery
3rd Attempt N.G
4th Attempt used Core Tube with plunger and pushed by hand (NG)

TICS 756-760

several attempts made with insufficient recovery

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:**
Client: *USACE NAE* **Chief Scientist:**

Station ID:	DD 40	Time On Station:	1349	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-DD40-00-SS	Northing (NAD 83):	2704450.1	Water Depth (*A*):	4.0
Logged by:	MW	Easting (NAD 83):	815074.8	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.17	Water surface to top of handle (*C*):	.4
Date:	6/12/2007	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	~~5.4~~ s/b 5.5
		Time of Collection:	1400	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1407	Water surface from surveyed elevation (*F*):	-.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-9.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-9.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.3
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	5.5									
				silt	black	loose	fine			0.4 to 1.4 gradual trans. to native material
	1.4									0.0 - 0.4 - clay.
	0.4			clay	blue-brown	mod firm	fine			Distinct line @ 1.4', but still v. dark material.

File ID of digital photograph(s):

Comments:

Pic 0761 - 0765

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	R19	Time On Station:	0833	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-0R19-00-16	Northing (NAD 83):	2707357.7	Water Depth (*A*):	4.3
Logged by:	MW	Easting (NAD 83):	815985.9	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.89	Water surface to top of handle (*C*):	4.9
Date:	7/31/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	0840	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	0848	Water surface from surveyed elevation (*F*):	2.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.6

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.6			Silt	Black	loose	fine			
	1.0 of			Clay	olive gray	stiff	fine			
	0.0									

File ID of digital photograph(s):

Comments:

Photo ID - 101 - ~~07 - 68~~ s/6 - 0768 TMH

VOA Sampler Taken By Jacobs

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	CC24	Time On Station:	0932	**All measurements are ±0.1 feet**	
Core Sample ID:	07A-CC24-00-35	Northing (NAD 83):	2704851.1	Water Depth (*A*):	6.5/6.6
Logged by:	M. Walsh	Easting (NAD 83):	815050.1	Length of push core assembly (*B*):	13.0/13.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.04	Water surface to top of handle (*C*):	1.2/2.5
Date:	7/31/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	3.5
		Time of Collection:	0935/0945	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	0948	Water surface from surveyed elevation (*F*):	3.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	3.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.0'
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.6

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	3.5			Silt	Black	loose	fine	Slight H2S odor		
	1.6			Sandy Clay	light gray	~~firm~~ ~~not~~ stiff	fine			
	0.0									

File ID of digital photograph(s):

Comments:
1st Attempt not enough penetration
VOA samples Taken by Jacobs

Photo ID 101-0770

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	DD31	Time On Station:	1012	**All measurements are ±0.1 feet**	
Core Sample ID:	07A-DD31-00-32	Northing (NAD 83):	2704673.7	Water Depth (*A*):	9.0
Logged by:	M. Walsh	Easting (NAD 83):	815074.1	Length of push core assembly (*B*):	10.6
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.08	Water surface to top of handle (*C*):	0.0
Date:	7/31/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	3.2
		Time of Collection:	1015	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1040	Water surface from surveyed elevation (*F*):	2.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.2
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.2			Silt	Black	loose	Fine			
1.6									Blurred transition
0.6			clay	olive gray	stiff	Fine			
0.0									

File ID of digital photograph(s):

Comments: VOA Samples Taken by Jacobs

Photo ID 101-0772

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	DD34	Time On Station:	1052	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-DD34-00-41	Northing (NAD 83):	270499.9	Water Depth (*A*):	6.6
Logged by:	M. Walsh	Easting (NAD 83):	815073.4	Length of push core assembly (*B*):	12.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.00	Water surface to top of handle (*C*):	~~0.5~~ 0.7 TMH
Date:	7/31/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	4.1
		Time of Collection:	1101	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1109	Water surface from surveyed elevation (*F*):	2.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-9.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	4.1			Silt	Black	loose	Fine			
	1.6			Clay	olive gray	Stiff	Fine			
	0.0									

File ID of digital photograph(s):

Comments:

VOA Sampler Taken by Jacobs

PHOTO ID ~~101-0774~~ use 101-0773 - better photo TMH 7/31/07

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	A14	Time On Station:	1125	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-GA14-00-19	Northing (NAD 83):	207464.3	Water Depth (*A*):	3.0
Logged by:	MW	Easting (NAD 83):	815561.5	Length of push core assembly (*B*):	8.6
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.67	Water surface to top of handle (*C*):	3.5
Date:	7/31/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.9
		Time of Collection:	1129	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1133	Water surface from surveyed elevation (*F*):	1.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.9			Silt	Black	loose	fine			
1.0			Clay	olive gray	stiff	fine			
0.0									

File ID of digital photograph(s):

Comments:

VOA samples taken by Jacobs

Photo ID 101-0776

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	NWC ~~00~~	Time On Station:	1144	**All measurements are ±0.1 feet**	
Core Sample ID:	07A-NWC-00-18	Northing (NAD 83):	2707630.4	Water Depth (*A*):	4.7
Logged by:	M. WAISH	Easting (NAD 83):	815603.1	Length of push core assembly (*B*):	8.3
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.45	Water surface to top of handle (*C*):	1.7
Date:	7/31/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	1148	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1150	Water surface from surveyed elevation (*F*):	1.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8			silt	Black	loose	fine			
1.3			sandy Clay wood	gray	stiff	fine			
0.0									

File ID of digital photograph(s):

Comments:

ADDITIONAL STATION COLLECTED AT REQUEST OF STEVE FOX. TMH @ 7/31/07

Photo ID ~~101-0778~~ use 101-0777 → photo is more clear TMH

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	DD37	Time On Station:	1211	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07A-DD37-00-37	Northing (NAD 83):	704529.5	Water Depth (*A*):	5.3
Logged by:	M-Walsh	Easting (NAD 83):	815073.1	Length of push core assembly (*B*):	12.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.04	Water surface to top of handle (*C*):	2.3
Date:	7/31/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	3.7
		Time of Collection:	1220	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1223	Water surface from surveyed elevation (*F*):	.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	~~-4.2~~ -5.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.5
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.7		Silt	Black	loose	Fine	slight H2S odor		
1.0		Clay	Dark gray	stiff	Fine			
0.0								

File ID of digital photograph(s):

Comments:
① WO 25. 8/13/07
VVA Samples taken by Jacobs

Photo ID 101-~~0779~~ ~~s/b 780 TMH~~ N/A Keep 101-00779 TMH

This page intentionally left blank

Progress-dredge Sediments

This page intentionally left blank

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	DD22	Time On Station:	0855	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-DD22-00-24	Northing (NAD 83):	2704897.04	Water Depth (*A*):	6'
Logged by:	M. Walsh	Easting (NAD 83):	815075.56	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.16	Water surface to top of handle (*C*):	2.3
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	0901	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	0905	Water surface from surveyed elevation (*F*):	-0.3

Calculations for Determination of Z* Elevation

(*G*)	Elevation of Water Surface (NVGD): *E - F*	-0.3
(*H*)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	~~-8.4~~ -9.0
(*z**)	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	~~-7.4~~ -8.0
(*I*)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	~~-5.0~~ ~~-6.4~~ TH -6.6 C
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4			Silt	Blk	loose	fine			
1			Clay	gray	stiff	fine			
0.0									

File ID of digital photograph(s):

Comments: Strong H_2S odor

① L.S. Incorrect information entered into sheet, 3/7/08

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	HH22	Time On Station:	0910	**All measurements are ±0.1 feet**	
Core Sample ID:	5-07B-HH22-00-25	Northing (NAD 83):	2704899.0	Water Depth (*A*):	5.1
Logged by:	M. Walsh	Easting (NAD 83):	815174.38	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.98	Water surface to top of handle (*C*):	3.7
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	0913	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	0918	Water surface from surveyed elevation (*F*):	-0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.5			Silt	Black	loose	Fine			
	1.7			Clay	olive gray	Stiff	Fine			
	0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	FF23	Time On Station:	0920	**All measurements are ±0.1 feet**	
Core Sample ID:	5-07B-FF23-00-23	Northing (NAD 83):	2704876.35	Water Depth (*A*):	3.9
Logged by:	M. Walsh	Easting (NAD 83):	815122.70	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.02	Water surface to top of handle (*C*):	4.5
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.3
		Time of Collection:	0923	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	0928	Water surface from surveyed elevation (*F*):	-0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.6

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.5									
	1.8			Silt	Black	loose	fine			
				Clay	olive gray	stiff	fine			
	0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	DD24	Time On Station:	1000	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-DD24-00-25	Northing (NAD 83):	270484 5.7	Water Depth (*A*):	5.5
Logged by:	M. Walsh	Easting (NAD 83):	815074.8	Length of push core assembly (*B*):	16.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.57	Water surface to top of handle (*C*):	2.6
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	1002	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1009	Water surface from surveyed elevation (*F*):	-.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5			Silt	Dark gray	fluffy	fine			
2.0			Silt OL		loose	fine			
1.5			Clay		stiff	fine			
0.0									

File ID of digital photograph(s):

Comments:
Heavy Sheen

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	FF26	Time On Station:	0934	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-FF26-00-17	Northing (NAD 83):	2704798.26	Water Depth (*A*):	5.0
Logged by:	M. Walsh	Easting (NAD 83):	815125.86	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.03	Water surface to top of handle (*C*):	4.1
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.7
		Time of Collection:	0937	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	0941	Water surface from surveyed elevation (*F*):	-0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.6

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.7			Silt	Black	loose	fine			
	1.1			Clay	olive gray	stiff	fine			
	0.0									

File ID of digital photograph(s):

Comments: ~~Faint~~ heavy sheen when dumping core

1.5

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring*
Location: *New Bedford, MA*
Client: *USACE NAE*

Project #: *G606422*
Vessel: *R/V Gale Force*
Chief Scientist: Theresa Himmer/Alex Mansfield

Station ID:	GG 25	Time On Station:	0944	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-G625-00-18	Northing (NAD 83):	2704823.20	Water Depth (*A*):	5.0
Logged by:	M. Walsh	Easting (NAD 83):	815149.39	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.66	Water surface to top of handle (*C*):	4.1
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	0947	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	0951	Water surface from surveyed elevation (*F*):	-.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.4

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.8			silt	Black	loose	fine			
	1.5			—	—	—	—	—	—	
				Clay shell hash	olive gray	stiff	fine			
	0.0									

File ID of digital photograph(s):

Comments: Heavy sheen

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	DD27	Time On Station:	1015	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-DD27-00-22	Northing (NAD 83):	2704770.7	Water Depth (*A*):	5.6
Logged by:	M. Walsh	Easting (NAD 83):	815074.58	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.52	Water surface to top of handle (*C*):	~~2.4~~ 3.0
Date:	8/23/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	~~2.5~~ 2.2
		Time of Collection:	~~1021~~ 1027	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1037	Water surface from surveyed elevation (*F*):	~~-.4~~ -0.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.2			mixed silty clay	Dark gray	loose	fine			
	1.4			Clay	olive gray	stiff	fine			
	0.0									

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Henry Sheen

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	DD31	Time On Station:	1042	**All measurements are ±0.1 feet**	
Core Sample ID:	S-073-DD31-00-24	Northing (NAD 83):	2704674.9	Water Depth (*A*):	5.6
Logged by:	M. Walsh	Easting (NAD 83):	815074.9	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.9	Water surface to top of handle (*C*):	2.4
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	24
		Time of Collection:	1044	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1050	Water surface from surveyed elevation (*F*):	-0.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-8.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.4			silt	Black	loose	fine			
	0.8			clay	olive gray	stiff	fine			
	0.0									

File ID of digital photograph(s):

Comments: very heavy sheen

1.4

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	FF28	Time On Station:	1052	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-FF28-00-18	Northing (NAD 83):	2704736.7	Water Depth (*A*):	4.5
Logged by:	M. Walsh	Easting (NAD 83):	815110.2	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.63	Water surface to top of handle (*C*):	4.7
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	1057	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1100	Water surface from surveyed elevation (*F*):	-0.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8			silt/clay	Dark gray	loose	fine			
1.4									
			Clay	olive gray	stiff	fine			
00									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	EE32	Time On Station:	1109	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-EE32-00-21	Northing (NAD 83):	270464.6	Water Depth (*A*):	5.6
Logged by:	M. Walsh	Easting (NAD 83):	815100.0	Length of push core assembly (*B*):	1.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.93	Water surface to top of handle (*C*):	3.1
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.1
		Time of Collection:	1112	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:		Water surface from surveyed elevation (*F*):	-.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.1			silt	Black	loose	fine			
-.8									
			Clay	olive gray	stiff	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	6633	Time On Station:	1120	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-6633-00-21	Northing (NAD 83):	270467 3.3	Water Depth (*A*):	5.0
Logged by:	M. Walsh	Easting (NAD 83):	815149.8	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.62	Water surface to top of handle (*C*):	3.7
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.1
		Time of Collection:	1123	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1126	Water surface from surveyed elevation (*F*):	-0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	~~-4.4~~ s/65.4 TH
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.2

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.1		Silt	Black	loose	fine			
1.0		Clay	Olive gray	Stiff	fine			
0.0								

File ID of digital photograph(s):

Comments:

1.6

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	6629	Time On Station:	1130	**All measurements are ±0.1 feet**	
Core Sample ID:	5-878-6629-00-22	Northing (NAD 83):	2704717.3	Water Depth (*A*):	4.3
Logged by:	M. Walsh	Easting (NAD 83):	815149.4	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.64	Water surface to top of handle (*C*):	4.1
Date:	8/23/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	2.2
		Time of Collection:	1132	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1138	Water surface from surveyed elevation (*F*):	-0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2		sand/silts silt	Black	loose	fine/med			
1.6		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	KK32	Time On Station:	1150	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-KK32-CC-2y	Northing (NAD 83):	2704649.8	Water Depth (*A*):	6.5
Logged by:	M. Walsh	Easting (NAD 83):	815247.3	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.84	Water surface to top of handle (*C*):	1.9
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	1153	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1159	Water surface from surveyed elevation (*F*):	-0.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-9.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.6

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4			silt	Black	loose	fine			
1.5			Clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	JI23	Time On Station:	1203	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-JI23-00-23	Northing (NAD 83):	2704873.7	Water Depth (*A*):	5.4
Logged by:	M. WALSH	Easting (NAD 83):	815224.3	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.16	Water surface to top of handle (*C*):	2.9
Date:	8/23/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	2.3
		Time of Collection:	~~1205~~ 1210	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1218	Water surface from surveyed elevation (*F*):	-.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.3		Clay silt	Dark gray	loose	fine			Blurred Transition 1.6 to 2.3
1.6		Clay	Olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	KK27	Time On Station:	1226	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-KK27-0024	Northing (NAD 83):	2704772.1	Water Depth (*A*):	5.4
Logged by:	M. Walsh	Easting (NAD 83):	815250.1	Length of push core assembly (*B*):	1.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.25	Water surface to top of handle (*C*):	2.8
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	1229	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1233	Water surface from surveyed elevation (*F*):	0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	~~8.2~~ s/b -8.2 TH
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.4

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4		Silt	Black	100%	fine			
1.2		Silt/clay	Dark gray					
		Clay	Olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	JJ29	Time On Station:	1249	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-JJ29-00-25	Northing (NAD 83):	~~2709~~ 724.3	Water Depth (*A*):	5.9
Logged by:	M. Walsh	Easting (NAD 83):	815226.1	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.14	Water surface to top of handle (*C*):	~~2.7~~ 2.4
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	~~1257~~ 1256	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1259	Water surface from surveyed elevation (*F*):	~~+~~ 0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.5			Silt	Black	loose	fine			
	1.4									
				Clay	olive gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments: Heavy Sheen
1st Attempt W/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	JS26	Time On Station:	1300	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-JS26-00-22	Northing (NAD 83):	2704789.2	Water Depth (*A*):	5.6
Logged by:	M. Walsh	Easting (NAD 83):	815212.6	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.08	Water surface to top of handle (*C*):	~~14~~ 11.8
Date:	8/23/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	2.2
		Time of Collection:	~~1306~~ 1311	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1315	Water surface from surveyed elevation (*F*):	+0.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	~~+~~ 0.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2			Silt	Dark gray	loose	fine			
1.6			Clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
1st Attempt N/G
2nd Attempt Accepted

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	HH 28	Time On Station:	1427	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-HH28-00-16	Northing (NAD 83):	2704751.4	Water Depth (*A*):	6.4
Logged by:	M. Walsh	Easting (NAD 83):	815177.2	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.28	Water surface to top of handle (*C*):	1.9
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	1429	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1434	Water surface from surveyed elevation (*F*):	+0.9

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.9
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.6			Silt Clay	Dark gray	loose	fine			
	.8									
				Clay	olive gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:

1.0

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	II25	Time On Station:	1346	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-II25-00-K	Northing (NAD 83):	2704836.9	Water Depth (*A*):	6.3
Logged by:	M. Walsh	Easting (NAD 83):	815200.9	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.78	Water surface to top of handle (*C*):	1.8
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	1349	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1354	Water surface from surveyed elevation (*F*):	+0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6		silt	Dark gray	loose	fine			
1.0		Clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	~~XX27~~ II31	Time On Station:	1355	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-II31-00-24	Northing (NAD 83):	2704673.0	Water Depth (*A*):	5.8
Logged by:	M. Walsh	Easting (NAD 83):	815198.6	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.49	Water surface to top of handle (*C*):	1.5
Date:	8/23/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	1359	Surveyed elevation (NVGD 29) (*E*):	—
		Time Depart Station:	1403	Water surface from surveyed elevation (*F*):	+0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.4			silt/Clay	Dark gray	loose	fine			
	1.4			Clay	olive gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	H2	Time On Station:	0915	**All measurements are ±0.1 feet**	
Core Sample ID:	S-~~078~~-0H02-00-11	Northing (NAD 83):	270 7747.41	Water Depth (*A*):	5.4
Logged by:	M-Walsh	Easting (NAD 83):	815724.38	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.69	Water surface to top of handle (*C*):	3.5
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	~~1.0~~ 1.0 1.1 TH
		Time of Collection:	0919	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0921	Water surface from surveyed elevation (*F*):	3.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	3.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.1									
	1.0			Silt	Black	loose	fine			
				Clay	Olive gray	firm	fine			
	00.									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	I1	Time On Station:	0928	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0I01-00-16	Northing (NAD 83):	~~2707773.44~~	Water Depth (*A*):	5.8
Logged by:	M. Walsh	Easting (NAD 83):	815748.96	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.37	Water surface to top of handle (*C*):	~~3~~ 2.4
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	~~0930~~ 0935	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0940	Water surface from surveyed elevation (*F*):	+3.7

↳ 2707773.44

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	3.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.6			Silt	Black	loose				
	1.2			Clay sand shells	gray	loose firm	fine to med			
	0.0									

File ID of digital photograph(s):

Comments: ~~1st Attmp N/G~~ MW

① wo L.S. 9/4/07

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	I4	Time On Station:	0944	**All measurements are ±0.1 feet**	
Core Sample ID:	S-073-0I04-00-16	Northing (NAD 83):	270870.87	Water Depth (*A*):	5.8
Logged by:	M. Walsh	Easting (NAD 83):	815761.20	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.45	Water surface to top of handle (*C*):	2.4
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	0947	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0953	Water surface from surveyed elevation (*F*):	+3.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	3.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6			Silt Clay mix	Dark gray	loose	Fine			
1.3			Clay Sand Shells	Olive gray	loose firm	fine med			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	I7	Time On Station:	0958	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-OI07-00-11	Northing (NAD 83):	~~2700763~~6.0	Water Depth (*A*):	5.6
Logged by:	M. Walsh	Easting (NAD 83):	815750.08	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.34	Water surface to top of handle (*C*):	3.1
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.1
		Time of Collection:	1000	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1004	Water surface from surveyed elevation (*F*):	+3.7

2707656.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	3.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.1			Silt sand	Black	loose	fine med			
	-.9									
				Clay Sand	olive gray	loose stiff	fine to med			
	0.0									

File ID of digital photograph(s):

Comments:

O wo ds. 9/4/07

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	J8	Time On Station:	1028	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-J08-00-17	Northing (NAD 83):	2707600.4	Water Depth (*A*):	5.2
Logged by:	M. Walsh	Easting (NAD 83):	815775.36	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.6	Water surface to top of handle (*C*):	2.7
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.7
		Time of Collection:	1032	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1034	Water surface from surveyed elevation (*F*):	3.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	3.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.7		silt sand	gray black	loose	fine to med			
1.5		clay sand	olive gray	loose firm	med to fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	LL 34	Time On Station:	1105	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-LL34-00-16	Northing (NAD 83):	2704598.5	Water Depth (*A*):	~~7.8~~ ~~7.6~~ 7.5
Logged by:	M. Walsh	Easting (NAD 83):	815274.7	Length of push core assembly (*B*):	~~14.0~~ 15.0 TH
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.75	Water surface to top of handle (*C*):	~~4.2~~ ~~5.7~~ 5.6
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	1120	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1133	Water surface from surveyed elevation (*F*):	+2.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6				silt clay	dark gray	loose	fine			dark gray silt/clay
1.3				clay	gray	mod. firm	med to fine			
DO										mod. firm gray clay

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	LL36	Time On Station:	1144	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-LL36-00-22	Northing (NAD 83):	2704548.8	Water Depth (*A*):	7.6
Logged by:	MW / JF	Easting (NAD 83):	815275.2	Length of push core assembly (*B*):	15.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.23	Water surface to top of handle (*C*):	5.2
Date:	8/30/07	Predicted Tide (ft):	NA ~~2.6~~ MLW	Length of core (from bottom) (*D*):	2.2
		Time of Collection:	11:49	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1155	Water surface from surveyed elevation (*F*):	2.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6				silt clay	dark grey	loose	fine			
0				clay	olive gray	mod. firm	fine			

File ID of digital photograph(s):

Comments:

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	LL40	Time On Station:	1159	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-LL40-002	Northing (NAD 83):	2704449.1	Water Depth (*A*):	6.5
Logged by:	JMF / MW	Easting (NAD 83):	815774.2	Length of push core assembly (*B*):	15
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.25	Water surface to top of handle (*C*):	6.6
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.75
		Time of Collection:	1204	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1207	Water surface from surveyed elevation (*F*):	+2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.75										
1.6				clay w/some silt	gray	loose	fine			
				clay	olive gray	mod. firm	fine			
0.0										

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	LL42	Time On Station:	1212	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-LL42-00 ~~25~~	Northing (NAD 83):	2704399.7	Water Depth (*A*):	6.0
Logged by:	JMF / MW	Easting (NAD 83):	815274.5	Length of push core assembly (*B*):	15.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.18	Water surface to top of handle (*C*):	6.5
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	1213	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1216	Water surface from surveyed elevation (*F*):	+1.9

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.9
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD)	(i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5					clay/silt	dark gray	loose	fine			
2.4											
					clay	gray	med firm	fine			
00 ~~25~~											

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	G633	Time On Station:	1222	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-G633-00-18	Northing (NAD 83):	2704625.6	Water Depth (*A*):	7.2
Logged by:	MW / JMP	Easting (NAD 83):	815149.0	Length of push core assembly (*B*):	15.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.13	Water surface to top of handle (*C*):	5.9
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	1225	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1230	Water surface from surveyed elevation (*F*):	+1.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8										
1.3				clay silt	grey & Black	loose	fine			
00				clay	grey	med. firm	fine			

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	GG35	Time On Station:	1236	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-GG35-00-18	Northing (NAD 83):	2704564.9	Water Depth (*A*):	7.2
Logged by:	JMF / MW	Easting (NAD 83):	815138.67	Length of push core assembly (*B*):	15.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.02	Water surface to top of handle (*C*):	6.0
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	1241	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1244	Water surface from surveyed elevation (*F*):	+1.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8				silt	Black → gray	loose	fine			
1.1				clay	gray	mod. firm	fine			
0.0										

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	GG38	Time On Station:	1255	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-G638-00-16	Northing (NAD 83):	2704498.33	Water Depth (*A*):	7.1
Logged by:	JMF	Easting (NAD 83):	815148.20	Length of push core assembly (*B*):	15.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.64	Water surface to top of handle (*C*):	6.2
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	1259	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1303	Water surface from surveyed elevation (*F*):	+.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6										
1.3				silt	Black	loose	fine			
0.0				clay	grey	mod firm	fine			

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	6640	Time On Station:	1309	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-6640-00-22	Northing (NAD 83):	2704447.6	Water Depth (*A*):	6.3
Logged by:	MW/JMF	Easting (NAD 83):	815150.4	Length of push core assembly (*B*):	15.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.82	Water surface to top of handle (*C*):	6.5
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.2
		Time of Collection:	1316	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1318	Water surface from surveyed elevation (*F*):	+0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
22				silt	DK gray + black	firm	loose			
1.3				clay	gray	firm	med. firm			
00										

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	HH42	Time On Station:	1323	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-HH42-00-18	Northing (NAD 83):	2704397.1	Water Depth (*A*):	6.3
Logged by:	JMF/MW	Easting (NAD 83):	815739.6	Length of push core assembly (*B*):	~~15.0~~ 11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.79 m	Water surface to top of handle (*C*):	2.7
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	1329	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1333	Water surface from surveyed elevation (*F*):	-.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8				clay-silt	Dark gray	loose	fine			
1.2				Clay	gray	mod. firm	fine			
00 ~~1.8~~										

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	JJ542	Time On Station:	1337	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-JJ542-00-14	Northing (NAD 83):	2704396.2	Water Depth (*A*):	6.0
Logged by:	JMF	Easting (NAD 83):	815224.7	Length of push core assembly (*B*):	16.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.5	Water surface to top of handle (*C*):	3.3
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	1341	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1345	Water surface from surveyed elevation (*F*):	-0.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4				SILT CLAY	DK Grey	loose	fine			
1.0				CLAY	Grey	mod. firm	fine			
0.0										

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	II41	Time On Station:	1351	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-II41-00-25	Northing (NAD 83):	2704437.0	Water Depth (*A*):	5.3
Logged by:	JMF/MW	Easting (NAD 83):	815211.9	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.75	Water surface to top of handle (*C*):	3.0
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	1353	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1355	Water surface from surveyed elevation (*F*):	-0.45

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5										
				SILT-clay	DK gray	loose	fine			
1.8										
				clay	olive gray	med. firm	firm			
0.0										

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	II39	Time On Station:	1403	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-II39-00-22	Northing (NAD 83):	270447.09	Water Depth (*A*):	5.3
Logged by:	JMF	Easting (NAD 83):	815201.9	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.40	Water surface to top of handle (*C*):	3.2
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.2
		Time of Collection:	1405	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1409	Water surface from surveyed elevation (*F*):	-0.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD)	(i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2					CLAY SILT	DK GREY	loose	fine			
1.4											
00 ~~2.7~~					CLAY	GREY	mod. firm	fine			

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	II35	Time On Station:	1414	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-II35-00-23	Northing (NAD 83):	2704550.2	Water Depth (*A*):	5.0
Logged by:	JMF/MW	Easting (NAD 83):	815199.6	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.1	Water surface to top of handle (*C*):	3.7
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.3
		Time of Collection:	1416	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1420	Water surface from surveyed elevation (*F*):	-0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.6

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.3				CLAY SILT	DK GRAY	loose	fine			
1.2				CLAY	gray	stiff from	fine			
~~0-2.3~~										

File ID of digital photograph(s):

Comments:

① S-07B-JJ33-00-22

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	~~KK37~~ JJ33	Time On Station:	1424	**All measurements are ±0.1 feet**	
① Core Sample ID:	~~S-07B-KK37-00~~	Northing (NAD 83):	2704612.8	Water Depth (*A*):	~~5.3~~ 5.4
Logged by:	JMF / MW	Easting (NAD 83):	815225.5	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	0.5	Water surface to top of handle (*C*):	3.1
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.2
		Time of Collection:	1426	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1431	Water surface from surveyed elevation (*F*):	-0.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.2

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2										
				CLAY SILT	DK GREY	loose	fine			
1.5										
				CLAY	GRAY	mod. firm	fine			
0										

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	HH37	Time On Station:	~~2~~ 1438	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07R-HH37-00-16	Northing (NAD 83):	270452.41	Water Depth (*A*):	4.9
Logged by:	JMF	Easting (NAD 83):	815174.6	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.3	Water surface to top of handle (*C*):	4.2
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	1440	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1444	Water surface from surveyed elevation (*F*):	-1.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6 1.5	—	—	—	—	SILT CLAY	DK GREY	loose	fine	—	—
				CLAY	GREY	med. firm	fine			
DO										

File ID of digital photograph(s):

Comments:

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	KK37	Time On Station:	1451	**All measurements are ±0.1 feet**	
Core Sample ID:	S-073-KK37-00-14	Northing (NAD 83):	2704524.1	Water Depth (*A*):	~~4.8~~ 5.0
Logged by:	JMF	Easting (NAD 83):	815249.7	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	± 3.66	Water surface to top of handle (*C*):	4.4 ~~3.2~~
Date:	8/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	1458	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	~~145~~ 1505	Water surface from surveyed elevation (*F*):	~~-1.5~~ -1.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.2

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4			~~CLAY~~ ~~SILT~~	~~SAND~~ ~~SILT~~ SILT CLAY	BE BRN	loose	fine			
1.1			CL	CLAY	Grey	mod. firm	fine			
0										

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring*
Location: *New Bedford, MA*
Client: *USACE NAE*

Project #: *G606422*
Vessel: *R/V Gale Force*
Chief Scientist: Theresa Himmer

Station ID:	HH41	Time On Station:	0903	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-HH41-00-13	Northing (NAD 83):	2704424.11	Water Depth (*A*):	~~5.4~~ 5.3
Logged by:	M. VAISH	Easting (NAD 83):	815174.44	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.61	Water surface to top of handle (*C*):	~~2.8~~ 4.2
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.3
		Time of Collection:	~~0907~~ 0915	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0920	Water surface from surveyed elevation (*F*):	-0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.3			Gravel fine sand silt clay	gray black	loose	fine			
	0.9			Clay	olive gray	stiff	fine			
	0.0									

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	MH35	Time On Station:	0933	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-MH35-CC-16	Northing (NAD 83):	2704574.62	Water Depth (*A*):	5.4
Logged by:	MW/SM	Easting (NAD 83):	815174.85	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.25	Water surface to top of handle (*C*):	~~2.53~~ 3.7
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	~~0936~~ 0940	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0947	Water surface from surveyed elevation (*F*):	~~-0.6~~ 5/6 -0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6			clay silt	black gray	loose	fine			
1.1			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
first attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	FF38	Time On Station:	0953	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-FF38-00-15	Northing (NAD 83):	2704498.24	Water Depth (*A*):	5.3
Logged by:	JH	Easting (NAD 83):	815125.62	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.71	Water surface to top of handle (*C*):	4.0
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	0956	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1004	Water surface from surveyed elevation (*F*):	-0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
~~150.0~~			clay silt shell hash	dark gray black	fluffy	fine-med.			well mixed
0.9			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	~~EF38~~ FF34	Time On Station:	10:08	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-FF34-00-22	Northing (NAD 83):	2704599.08	Water Depth (*A*):	5.4
Logged by:	JH	Easting (NAD 83):	815124.57	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.93	Water surface to top of handle (*C*):	3.2
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.2
		Time of Collection:	1011	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1018	Water surface from surveyed elevation (*F*):	-0.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.2

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2			clay silt	dark gray	stiff	fine			
1.6			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	EE41	Time On Station:	1100	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-EE41-00-31	Northing (NAD 83):	2704424.74	Water Depth (*A*):	6.5
Logged by:	MW/JH	Easting (NAD 83):	815101.01	Length of push core assembly (*B*):	12.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.13	Water surface to top of handle (*C*):	2.1
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	3.1
		Time of Collection:	1102	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1111	Water surface from surveyed elevation (*F*):	-0.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-10.4
(Z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-9.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-7.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-7.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.1			Silt	Black	loose	fine			
2.2			Silt clay	gray/~~Blk~~					Blurred Transition
1.6					loose firm				
1.0			Clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
heavy sheen

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	H13	Time On Station:	1214	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-OH13-00-20	Northing (NAD 83):	2707472.71	Water Depth (*A*):	10.1
Logged by:	MW/JH	Easting (NAD 83):	815725.31	Length of push core assembly (*B*):	~~10.0~~ 11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.06	Water surface to top of handle (*C*):	~~7.3~~ 7.1
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.0
		Time of Collection:	1230 ~~1218~~ ~~1227~~	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1235	Water surface from surveyed elevation (*F*):	~~0.0~~

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.0		Sand silt	dark gray black	fluff	fine-med			HEAVY SHEEN WHEN CORE EMPTIED
0.6		clay	dark olive	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
1st attempt N/G
2nd attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	I12	Time On Station:	1239	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-OI12-00-18	Northing (NAD 83):	2007497.61	Water Depth (*A*):	2.2
Logged by:	JH	Easting (NAD 83):	815750.63	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.08	Water surface to top of handle (*C*):	6.8
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	1241	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1249	Water surface from surveyed elevation (*F*):	0.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	~~-2.5~~ -2.9 ①
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.2

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8			~~silty~~ sandy silt	dark gray black	cuff	fine			sheen when core emptied
1.3-1.4			sandy clay wood chips	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

① AEM 3/12/08 - error in calculation.

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	310	Time On Station:	1251	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0310-00-24	Northing (NAD 83):	2707549.30	Water Depth (*A*):	~~1.4~~ 1.5
Logged by:	JH	Easting (NAD 83):	815774.44	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.93	Water surface to top of handle (*C*):	6.7 ~~7.5~~
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	~~1253~~ 1258	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1308	Water surface from surveyed elevation (*F*):	0.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
24		clay w/ some fine sand	dark gray	fluff	fine			
1.7-18		clay w/ sand shells	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
1st attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	K13	Time On Station:	1309	**All measurements are ±0.1 feet**	
Core Sample ID:	8-07B-CK13-00-19	Northing (NAD 83):	2707472.51	Water Depth (*A*):	1.7
Logged by:	JH	Easting (NAD 83):	815800.81	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.64	Water surface to top of handle (*C*):	7.1
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.9
		Time of Collection:	1311	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1321	Water surface from surveyed elevation (*F*):	0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.9			Clay w/silt + fine sand	dark gray	fluff	fine			slight sheen when core emptied
1.2			clay w/ sand & shells	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Hirmmer

Station ID:	M12	Time On Station:	1333	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-0M12-00-14	Northing (NAD 83):	2707499.61	Water Depth (*A*):	4.0
Logged by:	SH	Easting (NAD 83):	815850.69	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.38	Water surface to top of handle (*C*):	5.5
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4 ~~1.35~~
		Time of Collection:	1335	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1342	Water surface from surveyed elevation (*F*):	0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.4

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4			clay silt fine sand	dark gray	loose unconsolidated	fine			
1.1			clay sand shells	olive gray	firm	fine			large shells
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	E9 ~~E07~~	Time On Station:	1347	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-DL07-CC-15	Northing (NAD 83):	2707624.00	Water Depth (*A*):	3.0
Logged by:	JH	Easting (NAD 83):	815824.79	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.10	Water surface to top of handle (*C*):	6.4
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	1348	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1354	Water surface from surveyed elevation (*F*):	0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5		clay silt fine sand	dark gray	loose	fine			sheen when core emptied
0.8		clay sand shells	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	~~L05~~ L3	Time On Station:	1400	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0L03-00-15	Northing (NAD 83):	270723.22	Water Depth (*A*):	~~3.2~~ 3.3
Logged by:	DH	Easting (NAD 83):	815826.23	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.19	Water surface to top of handle (*C*):	~~5.1~~ 5.2
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	~~1407~~ 1406	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1415	Water surface from surveyed elevation (*F*):	0.9

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.9
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.9
(l)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.8
(l_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.4

(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5			sand silt	dark gray	loose	fine			very thin
1.4			clay sand	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

1st attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	K5	Time On Station:	1421	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-CK05-CC-20	Northing (NAD 83):	270763.86	Water Depth (*A*):	3.3
Logged by:	MW/JH	Easting (NAD 83):	815799.87	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.55	Water surface to top of handle (*C*):	5.4
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.0
		Time of Collection:	~~1422~~ 1426	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1434	Water surface from surveyed elevation (*F*):	1.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.0			sand	dark gray	loose	fine-med.			sheen when ~~not~~ emptied
1.1-1.3									gradual transition shells
			clay sand	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
1st attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	K2	Time On Station:	1443	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-CK02-00-24	Northing (NAD 83):	2707749.01	Water Depth (*A*):	3.5
Logged by:	JH	Easting (NAD 83):	815801.13	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.03	Water surface to top of handle (*C*):	5.0
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	1444	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:		Water surface from surveyed elevation (*F*):	1.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4			Sandy Silt	dark gray black	loose	fine-med.			
1.3			clay sand shells	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	DD34	Time On Station:	1512	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-DD34-00-2E	Northing (NAD 83):	2704600.81	Water Depth (*A*):	~~10.0~~ ~~9.9~~
Logged by:	JH	Easting (NAD 83):	815073.53	Length of push core assembly (*B*):	15.3
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.61	Water surface to top of handle (*C*):	~~2.3~~ 3.0
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.6
		Time of Collection:	1526 ~~1516~~ ~~1526~~	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1535	Water surface from surveyed elevation (*F*):	~~2.0~~ 2.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-10.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-8.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-7.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-7.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.6			clay silt	dark gray black	loose	fine			
1.7			clay	olive gray	firm	fine			transition streaky
0.0									

File ID of digital photograph(s):

Comments:

1st attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	N2	Time On Station:	0805	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-ON02-00-20 17	Northing (NAD 83):	2707748.87	Water Depth (*A*):	~~4.5~~ 4.7
Logged by:	MW/JH	Easting (NAD 83):	815873.93	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.70	Water surface to top of handle (*C*):	4.3
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	~~2.0~~ 1.7
		Time of Collection:	0811	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0820	Water surface from surveyed elevation (*F*):	+1.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.~~2.0~~		clay silt	gray	fluffy	fine			slight sheen when core emptied
1.5		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

2nd 2 photos N/G

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	N4	Time On Station:	0823	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-ON04-00-12	Northing (NAD 83):	2707703.58	Water Depth (*A*):	~~4.~~5.1
Logged by:	MW/SH	Easting (NAD 83):	815874.21	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.73	Water surface to top of handle (*C*):	~~4~~.8
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	0824	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0832	Water surface from surveyed elevation (*F*):	+1.9

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.9
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	~~-5.0~~ -4.3 ①
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.2

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2			particulate	black	fluff loose	very fine			
1.1			clay silt mix	dark gray	soft	fine			
0.4			clay	gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments: Water Quality Reading Taken

① AEM 3/12/08 error in calculation

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	N6	Time On Station:	0841	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-ONC6-CC-06	Northing (NAD 83):	2707647.57	Water Depth (*A*):	5.0
Logged by:	MW/JH	Easting (NAD 83):	815874.36	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.55	Water surface to top of handle (*C*):	~~4~~ 5.2
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	0.6
		Time of Collection:	~~0847~~ 0846	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0851	Water surface from surveyed elevation (*F*):	~~4~~ 2.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.6			silt	gray	sluggy	fine			
0.5			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
1st attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	N8	Time On Station:	0855	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-0N08-00-09	Northing (NAD 83):	2707600.96	Water Depth (*A*):	~~4.7~~ 4.9
Logged by:	MW/JH	Easting (NAD 83):	815873.31	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.55	Water surface to top of handle (*C*):	3.7 ~~4.2~~ ~~3.9~~
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	0.9
		Time of Collection:	0903 ~~0856~~ ~~0859~~	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0908	Water surface from surveyed elevation (*F*):	~~2.5~~ 2.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.6

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9			clay silt mix	gray	loose	fine			
0.7			sandy clay shell hash	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

1st attempt N/G
2nd attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	N10	Time On Station:	0913	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0N10-00-12	Northing (NAD 83):	2707548.65	Water Depth (*A*):	5.6
Logged by:	JH	Easting (NAD 83):	815876.43	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.95	Water surface to top of handle (*C*):	3.1
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	0917	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0923	Water surface from surveyed elevation (*F*):	+2.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.4
(Z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2			silt clay mix	gray	very loose	fine			
0.7			Sandy clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	N14	Time On Station:	0927	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-ON14-00-~~13~~ 12 JH	Northing (NAD 83):	2707447.75	Water Depth (*A*):	6.3
Logged by:	JH	Easting (NAD 83):	815874.39	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.68	Water surface to top of handle (*C*):	2.4
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	~~1.3~~ 1.2
		Time of Collection:	0929	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	~~09~~ 0936	Water surface from surveyed elevation (*F*):	+2.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2		silt	dark gray	fluff	fine			
1.0		clay silt mix	gray	soft	fine			
0.7		clay	light gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	N17	Time On Station:	0940	**All measurements are ±0.1 feet**	
Core Sample ID:	S-076-0N17-00-16	Northing (NAD 83):	2707373.11	Water Depth (*A*):	6.0
Logged by:	JH	Easting (NAD 83):	815876.25	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.72	Water surface to top of handle (*C*):	2.1
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	0942	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0948	Water surface from surveyed elevation (*F*):	+2.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6			clay silt mix	dark gray	very loose	fine			
1.3			Sandy clay shells	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	N21	Time On Station:	0951	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-0N21-00-12	Northing (NAD 83):	2707274.12	Water Depth (*A*):	6.0
Logged by:	JH	Easting (NAD 83):	815875.03	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.75	Water surface to top of handle (*C*):	2.5
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	0952	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0958	Water surface from surveyed elevation (*F*):	+2.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.4

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2			silt clay mix	dark gray	loose	fine			very well mixed
0.7			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	M4	Time On Station:	1009	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0M04-00-08	Northing (NAD 83):	2707697.11	Water Depth (*A*):	4.7
Logged by:	JH	Easting (NAD 83):	815850.68	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.77	Water surface to top of handle (*C*):	~~0.8~~ 4.5
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	0.8
		Time of Collection:	1010	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1013	Water surface from surveyed elevation (*F*):	+2.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-2.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.8			sandy clay	olive gray	firm	coarse			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	M7	Time On Station:	1022	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-0M07-00-13	Northing (NAD 83):	2707623.39	Water Depth (*A*):	4.2
Logged by:	JH	Easting (NAD 83):	815849.95	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.83	Water surface to top of handle (*C*):	4.3
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.3
		Time of Collection:	1023	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1027	Water surface from surveyed elevation (*F*):	+2.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.3			clay silt mix	dark gray	soft	fine			
0.7			sandy clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	M12	Time On Station:	1035	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0M12-00-15	Northing (NAD 83):	2707498.73	Water Depth (*A*):	6.1
Logged by:	JH	Easting (NAD 83):	815849.91	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.16	Water surface to top of handle (*C*):	2.1
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	1037	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1046	Water surface from surveyed elevation (*F*):	+2.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.6

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5			silt clay mix	dark gray	loose	fine			
1.2			sandy clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	LL32	Time On Station:	1108	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-LL32-00-16	Northing (NAD 83):	2704648.20	Water Depth (*A*):	7.4
Logged by:	JH	Easting (NAD 83):	815275.65	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.20	Water surface to top of handle (*C*):	0.6
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	TH ~~1009~~ 11:09	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	~~1019~~ 11:19 TH	Water surface from surveyed elevation (*F*):	+2.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6			silt	light gray	fluff	fine			
1.2			~~clay silt~~	~~dark gray~~	soft	fine			
0.9			clay	gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	MM29	Time On Station:	1125	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-MM29-00-20	Northing (NAD 83):	2704722.58	Water Depth (*A*):	8.0
Logged by:	JH	Easting (NAD 83):	815300.10	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.14	Water surface to top of handle (*C*):	0.9
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.0
		Time of Collection:	1127	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1133	Water surface from surveyed elevation (*F*):	+2.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.0			clay silt mix	dark gray	soft very loose	very fine			
1.6			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	LL26	Time On Station:	1137	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-LL26-00-14	Northing (NAD 83):	2704799.36	Water Depth (*A*):	7.7
Logged by:	JH	Easting (NAD 83):	815275.24	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.05	Water surface to top of handle (*C*):	~~2.0~~ 1.8
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	~~1138~~ 1145	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1148	Water surface from surveyed elevation (*F*):	+1.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4			clay silt mix	dark gray	loose soft	fine			
1.2			clay	olive green	firm	fine			
6.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	MM24	Time On Station:	1155	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-MM24-00-21	Northing (NAD 83):	2704848.85	Water Depth (*A*):	7.4
Logged by:	JH	Easting (NAD 83):	815300.79	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.67	Water surface to top of handle (*C*):	1.3
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.1
		Time of Collection:	1156	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1200	Water surface from surveyed elevation (*F*):	1.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.1			silt	black	loose	fine			
1.6			~~clay silt~~	~~gray~~	~~soft~~	~~fine~~			~~mixed~~
1.0			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	MM22	Time On Station:	1206	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-MM22-00-~~17~~ 23 JH	Northing (NAD 83):	2704848.03	Water Depth (*A*):	7.1
Logged by:	MW/JH	Easting (NAD 83):	815301.22	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.44	Water surface to top of handle (*C*):	1.7
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.3
		Time of Collection:	1211	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1214	Water surface from surveyed elevation (*F*):	~~1.1~~

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
JH 2.3 ~~1.7~~			clay silt mix	dark gray	very fluffy loose	fine			
1.2			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	DD31	Time On Station:	1228	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-DD31-00-26	Northing (NAD 83):	270467 3.59	Water Depth (*A*):	6.0
Logged by:	JH	Easting (NAD 83):	815074.64	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.78	Water surface to top of handle (*C*):	2.1
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.6
		Time of Collection:	1229	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1234	Water surface from surveyed elevation (*F*):	0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.6		silt	black	loose	very fine			slight sheen when core emptied
0.6		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	DD32	Time On Station:	1245	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-DD32-00-22	Northing (NAD 83):	270464786	Water Depth (*A*):	9.5
Logged by:	JH	Easting (NAD 83):	815075.81	Length of push core assembly (*B*):	15.0 ~~11.0~~
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.42	Water surface to top of handle (*C*):	2.9
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.2
		Time of Collection:	1254	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1258	Water surface from surveyed elevation (*F*):	+0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-11.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-10.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-9.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-9.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2			silt	black	loose	very fine			
1.5			clay	gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer/Alex Mansfield

Station ID:	DD35	Time On Station:	1303	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-DD35-00-23	Northing (NAD 83):	2704574.00	Water Depth (*A*):	9.0
Logged by:	JH	Easting (NAD 83):	815075.48	Length of push core assembly (*B*):	15.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.36	Water surface to top of handle (*C*):	3.5
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.3
		Time of Collection:	1308	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1312	Water surface from surveyed elevation (*F*):	-0.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-11.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-10.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-9.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-9.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.3			silt	black	very loose	fine			
1.6			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	DD40	Time On Station:	1328	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-DD90-00-22	Northing (NAD 83):	2704447.06	Water Depth (*A*):	8.7
Logged by:	MW / JH	Easting (NAD 83):	815074.78	Length of push core assembly (*B*):	15.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.15	Water surface to top of handle (*C*):	4.0
Date:	9/13/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.2
		Time of Collection:	1332	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1335	Water surface from surveyed elevation (*F*):	-0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-11.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-10.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-9.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-9.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2			silt	black	very loose	very fine			heavy sheen when core emptied
1.0			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	0026	Time On Station:	0839	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0026-00-23	Northing (NAD 83):	270476.58	Water Depth (*A*):	~~4.9~~ 4.9
Logged by:	MW	Easting (NAD 83):	815349.30	Length of push core assembly (*B*):	~~12.0~~ 11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.4	Water surface to top of handle (*C*):	~~4.0~~ 4.7
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.3
		Time of Collection:	0842/~~0846~~	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0916	Water surface from surveyed elevation (*F*):	-0.4

Calculations for Determination of Z* Elevation

(*G*)	Elevation of Water Surface (NVGD): *E - F*	-0.4
(*H*)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.9
(*Z**)	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.0
(*I*)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.3		Silt	Black	loose	fine			
1.9								
		Clay	olive gray	Firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
1st Attempt N/G
2nd Attempt N/G
3rd Attempt N/G
4th Attempt N/G

12.0
4.9
7.1
4.0
3.1

12.0
4.7
6.13
4.7
2.6
120
6.3
5.4
1.9

7.3
4.0
11.0
4.9
56.1
3.5
26

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	PP22	Time On Station:	0923	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-PP22-000-16	Northing (NAD 83):	2704896.80	Water Depth (*A*):	5.2
Logged by:	MW	Easting (NAD 83):	815375.85	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.75	Water surface to top of handle (*C*):	3.9
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	0927	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0933	Water surface from surveyed elevation (*F*):	-0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.4

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.6			silt	gray Black	loose	fine			
	1.4			some shells	Olive					
				Clay	gray	firm	fine			
	00									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	PP30	Time On Station:	0941	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-PP30-BOT-26	Northing (NAD 83):	2704698.01	Water Depth (*A*):	5.0
Logged by:	MW	Easting (NAD 83):	815374.74	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.69	Water surface to top of handle (*C*):	3.2
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.6
		Time of Collection:	0945	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0949	Water surface from surveyed elevation (*F*):	-0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.2

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.6		silt	Black	loose	fine			
1.9		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	PP36	Time On Station:	0955	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-PP36-00-23	Northing (NAD 83):	270457.2	Water Depth (*A*):	~~6.0~~ 6.1
Logged by:	MW	Easting (NAD 83):	815373.2	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.8	Water surface to top of handle (*C*):	~~2.2~~ ~~2.3~~ 2.3
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	~~2.3~~ 2.4
		Time of Collection:	~~1000~~ 1013	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1018	Water surface from surveyed elevation (*F*):	-0.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.2

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4			silt	gray blk	loose	medium			
2.3									
			Clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
1st Attempt N/G
Disregard Sample Photos with sample ID S-07B-PP36-00-23

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	PP40	Time On Station:	1021	**All measurements are ±0.1 feet**	
Core Sample ID:	S-073-PP40-08-16	Northing (NAD 83):	270444.83	Water Depth (*A*):	~~6.0~~ 6.1
Logged by:	MW	Easting (NAD 83):	815374.75	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.21	Water surface to top of handle (*C*):	~~3.0~~ 3.0
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	~~1025~~ 1031	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1038	Water surface from surveyed elevation (*F*):	0.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6		Silt	Black	loose	fine			
1.4								
		Clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	0042	Time On Station:	1042	**All measurements are ±0.1 feet**	
Core Sample ID:	S07B-0042-00-20	Northing (NAD 83):	270395.27	Water Depth (*A*):	6.1
Logged by:	MW	Easting (NAD 83):	815349.40	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.15	Water surface to top of handle (*C*):	2.8
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.0
		Time of Collection:	1046	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1054	Water surface from surveyed elevation (*F*):	0.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.0			Silt	Black	loose	fine			
1.6			silt clay	gray ~~black~~	firm	fine			Blurred Transition
1.1			Clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	0038	Time On Station:	1058	**All measurements are ±0.1 feet**	
Core Sample ID:	S-073-0038-00-24	Northing (NAD 83):	2704496.7	Water Depth (*A*):	~~6~~7 6.3
Logged by:	MWJ	Easting (NAD 83):	815350.50	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.1	Water surface to top of handle (*C*):	~~20~~ 2.0
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	~~1101~~ 1112	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1117	Water surface from surveyed elevation (*F*):	+0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4			Silt	Black	very loose	fine			
1.8			Clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	0032	Time On Station:	1124	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0032-00-26	Northing (NAD 83):	270464 6.6	Water Depth (*A*):	5.2
Logged by:	MW	Easting (NAD 83):	815849.2	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.74	Water surface to top of handle (*C*):	2.9
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.6
		Time of Collection:	1130	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1134	Water surface from surveyed elevation (*F*):	+0.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.6			Silt	Black	loose	fine			
					gray black					
	1.4									
				Clay	olive gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	M13	Time On Station:	1153	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-0M13-00-13	Northing (NAD 83):	2707473.51	Water Depth (*A*):	2.9
Logged by:	MW	Easting (NAD 83):	815852.00	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.71	Water surface to top of handle (*C*):	6.6
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.3
		Time of Collection:	1158	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1205	Water surface from surveyed elevation (*F*):	+0.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.4

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.3			Silty Sand Clay	Gray Black	loose	fine			
1.0			Clay	Olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	M15	Time On Station:	1209	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-BM15-00-11	Northing (NAD 83):	2707424.97	Water Depth (*A*):	~~3.6~~ 3.8
Logged by:	MW	Easting (NAD 83):	815551.26	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.81	Water surface to top of handle (*C*):	~~6.2~~ 6.0
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.1
		Time of Collection:	~~1212~~ 1218	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1225	Water surface from surveyed elevation (*F*):	+0.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.1		silt sand	Black gray	loose	fine med			
0.8		Clay some sand	Olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
1st Attempt N/G (shells) - slight sheen

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	M17	Time On Station:	1228	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-DMM-02 24	Northing (NAD 83):	2707372.46	Water Depth (*A*):	~~3.7~~ ~~3.8~~ 3
Logged by:	MRF	Easting (NAD 83):	815850.88	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.61	Water surface to top of handle (*C*):	~~5~~ ~~4.1~~ 4.6
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	1245	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1257	Water surface from surveyed elevation (*F*):	~~-8~~ +.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4									
1.9			Silt ~ Sand w/organic mat	~~None~~ black	loose	Med-fine			
			silt	black	loose	fine			slight sheen
1.2									
			Clay shells	olive grey	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

1st 2 attempts NG

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	M20	Time On Station:	1300	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0M20-00 24	Northing (NAD 83):	2707297.53	Water Depth (*A*):	4.1
Logged by:	MRF	Easting (NAD 83):	815851.6	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.15	Water surface to top of handle (*C*):	4.2
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	1305	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1314	Water surface from surveyed elevation (*F*):	+1.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4			well mixed silt clay some sand	black	loose	fine → medium			some shells + wood
1.3			clay shells	olive grey	stiff	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	K21	Time On Station:	1317	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0K21-00-25	Northing (NAD 83):	2707272.18	Water Depth (*A*):	4.6
Logged by:	MRF	Easting (NAD 83):	815801.29	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.29	Water surface to top of handle (*C*):	3.6
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	1321	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1330	Water surface from surveyed elevation (*F*):	+1.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.5			Mixed Silt clay + some sand	mottled Black + Olive	loose w/firm clay balls	fine → med			
	1.0									
	0.0 ~~-2.5~~			Clay	Olive grey	firm	fine			

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	K19	Time On Station:	1334	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0K19-00-24	Northing (NAD 83):	2707323.78	Water Depth (*A*):	~~4.5~~ 4.6
Logged by:	MRF	Easting (NAD 83):	815799.59	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.08	Water surface to top of handle (*C*):	~~4.3~~ 3.8
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	1340	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1344	Water surface from surveyed elevation (*F*):	~~1.4~~ 1.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
~~2.4~~ 1.8			silt sand peat	Black	loose	fine→med			
			Clay	olive black	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

1st attempt NG

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	518	Time On Station:	1401	**All measurements are ±0.1 feet**	
Core Sample ID:	5-07B-~~05~~518-~~00~~-26	Northing (NAD 83):	2707347.9	Water Depth (*A*):	4.4
Logged by:	MRP	Easting (NAD 83):	815773.93	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.12	Water surface to top of handle (*C*):	3.7
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.6
		Time of Collection:	1407	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1403	Water surface from surveyed elevation (*F*):	1.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.6			silt + peat	Black	loose	fine-med			
	2.1									
				clay	olive grey	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	K16	Time On Station:	1506	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-~~0~~K16-~~00~~-25	Northing (NAD 83):	270739~~0~~.58	Water Depth (*A*):	~~4.6~~ 4.7
Logged by:	MRF	Easting (NAD 83):	815800.~~72~~	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.27	Water surface to top of handle (*C*):	~~4.03~~ 3.7
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	1520	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1530	Water surface from surveyed elevation (*F*):	1.9

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.9
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5			silt peat some sand	Black	loose	fine			
1.9			clay	olive grey	firm	fine			
~~0.0~~									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	K12	Time On Station:	1420	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0K12-00~~0~~-18	Northing (NAD 83):	2707498.16	Water Depth (*A*):	~~4.2~~ ~~4.3~~ 4.
Logged by:	MRF	Easting (NAD 83):	815800.07	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.51	Water surface to top of handle (*C*):	~~3.4~~ ~~3.6~~ 4.
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	1435	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1440	Water surface from surveyed elevation (*F*):	1.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8			Silt	Black	loose	fine			
1.3			Silt + clay	Dark grey	firm to loose	fine			gradual transition
0.5			Clay	Olive grey	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

1st 2 attempts NG

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	S14	Time On Station:	1447	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0S14-00-20	Northing (NAD 83):	2707448.03	Water Depth (*A*):	4.4
Logged by:	MRF	Easting (NAD 83):	815777.89	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.72	Water surface to top of handle (*C*):	4.4
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.0
		Time of Collection:	1451	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1458	Water surface from surveyed elevation (*F*):	1.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.0			silt	Black	loose	fine			
1.5			clay	olive grey	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	NN24	Time On Station:	1550	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-NN24-00-25	Northing (NAD 83):	2704847.57	Water Depth (*A*):	6.5
Logged by:	MRF	Easting (NAD 83):	815324.87	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.16	Water surface to top of handle (*C*):	1.8
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	1556	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1600	Water surface from surveyed elevation (*F*):	1.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5		silt	Black	loose	fine			
2.0		Clay	olive grey	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	NN29	Time On Station:	1607	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-NN29-~~00~~-29	Northing (NAD 83):	2704723.15	Water Depth (*A*):	~~6.1~~ 6.2
Logged by:	MRF	Easting (NAD 83):	815325.28	Length of push core assembly (*B*):	11
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.48	Water surface to top of handle (*C*):	~~2.1~~ ~~2.2~~ 2
Date:	9/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	1623	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1627	Water surface from surveyed elevation (*F*):	1.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.4			silt	Black	loose	fine			
	1.5			clay	olive grey	stiff	fine			
	0.0									

File ID of digital photograph(s):

Comments:
1st 2 attempts NG

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	Q3	Time On Station:	0849	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-~~0003-00~~-17	Northing (NAD 83):	270724.08	Water Depth (*A*):	6.1 ~~5.758~~
Logged by:	MW/SH	Easting (NAD 83):	515949.43	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	5.25	Water surface to top of handle (*C*):	3.0 ~~3.3~~ ~~3.4~~
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.7
		Time of Collection:	0900 ~~0852~~ ~~0857~~	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0912	Water surface from surveyed elevation (*F*):	+3.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+3.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.7		silty w/ organic matter	black	loose	fine			some sheen when core emptied
0.8		clay shells	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

1st Attempt N/G
2nd Attempt N/G
sheen when core pulled up

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	01	Time On Station:	0916	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0001-0018	Northing (NAD 83):	2707774.92	Water Depth (*A*):	6.1
Logged by:	MW/JTH	Easting (NAD 83):	815698.20	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.71	Water surface to top of handle (*C*):	2.8 ~~2.9~~ ~~3.2~~
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	~~0919~~ ~~0925~~ 0932	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0938	Water surface from surveyed elevation (*F*):	+3.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+3.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.8			silt w/ organic matter	black	loose	fine			
	1.3			clay	olive gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:
1st Attempt N/G sheen when core pulled up
2nd Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	Q6	Time On Station:	0942	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-00Q6-00-09	Northing (NAD 83):	270769.50	Water Depth (*A*):	6.3
Logged by:	MW/JH	Easting (NAD 83):	815946.94	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2-12	Water surface to top of handle (*C*):	3.5
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	0.9
		Time of Collection:	0946	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0951	Water surface from surveyed elevation (*F*):	+3.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+3.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9			silt w/ organic matter	black	loose	fine			sheen when core emptied
0.6			clay shells	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
Sheen when core taken

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	Q9	Time On Station:	0955	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-CDQ9-002-14	Northing (NAD 83):	2707575.89	Water Depth (*A*):	6.4
Logged by:	MW/CH	Easting (NAD 83):	815951-18	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.23	Water surface to top of handle (*C*):	3.1
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	1000	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1003	Water surface from surveyed elevation (*F*):	+3.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+3.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4		silt	black gray	loose	fine			sheen when core emptied
1.3		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	04	Time On Station:	1009	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0004-00-12	Northing (NAD 83):	2707699.34	Water Depth (*A*):	5.7
Logged by:	MW / JH	Easting (NAD 83):	815900.11	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.04	Water surface to top of handle (*C*):	3.8
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	1010	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1020	Water surface from surveyed elevation (*F*):	+3.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+3.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.4

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2			silt	black	loose	fine			sheen when core emptied
1.15			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	08	Time On Station:	1020	**All measurements are ±0.1 feet**	
Core Sample ID:	S-08B-0008-10-12	Northing (NAD 83):	2707600.21	Water Depth (*A*):	5.8
Logged by:	MW/JH	Easting (NAD 83):	815899.33	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.16	Water surface to top of handle (*C*):	4.0
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	1023	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1029	Water surface from surveyed elevation (*F*):	+3.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+3.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2			silt	black	loose	fine			Some sheen when core emptied
0.9			clay shells & organic matter	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	P10	Time On Station:	1031	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-0P10-1.2	Northing (NAD 83):	2707548.96	Water Depth (*A*):	5.5
Logged by:	mw/JH	Easting (NAD 83):	815925.65	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.10	Water surface to top of handle (*C*):	4.1
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	1034	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1038	Water surface from surveyed elevation (*F*):	+2.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+2.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2			silt	black	loose	fine			some sheen when core emptied
0.8			clay shells	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	P12	Time On Station:	1043	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-P12-00-11	Northing (NAD 83):	2707499.03	Water Depth (*A*):	~~5.0~~ 4.9
Logged by:	MW/JH	Easting (NAD 83):	815923.78	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.09	Water surface to top of handle (*C*):	5.0
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.1
		Time of Collection:	1044	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1052	Water surface from surveyed elevation (*F*):	+2.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+2.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.4

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.1		silt	black	loose	fine			some sheen when core emptied
0.9		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	DD36	Time On Station:	1546	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-DD3600-25	Northing (NAD 83):	2704539.69	Water Depth (*A*):	10.3
Logged by:	JH	Easting (NAD 83):	815084.71	Length of push core assembly (*B*):	15.3
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.71	Water surface to top of handle (*C*):	2.1
Date:	9/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	1547	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1555	Water surface from surveyed elevation (*F*):	2.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-10.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-9.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-8.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-7.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5			silt clay	dark gray black	loose	fine			
1.5			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	QQ25	Time On Station:	1113	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-QQ25-02 18	Northing (NAD 83):	2704825.23	Water Depth (*A*):	~~6.7~~ 6.4
Logged by:	MW/JH	Easting (NAD 83):	815399.51	Length of push core assembly (*B*):	15.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.91	Water surface to top of handle (*C*):	6.7
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	1115	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1122	Water surface from surveyed elevation (*F*):	+1.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8			silt w/ sand	black	loose	fine-med.			some sheen when core emptied
1.3			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	QQ32	Time On Station:	1129	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-QQ32-~~00~~25	Northing (NAD 83):	2704648.75	Water Depth (*A*):	5.8
Logged by:	MW/JH	Easting (NAD 83):	815398.77	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.70	Water surface to top of handle (*C*):	2.4
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	1205	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1210	Water surface from surveyed elevation (*F*):	+0.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.0
(l)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.6
(l_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.3

(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5		silt sand clay mix	black gray	loose	fine			some sheen when core emptied
2.1		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
1st Attempt N/G
2nd Attempt N/G
3rd Attempt N/G
4th Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	2Q 30	Time On Station:	1220	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-QQ30-00-22	Northing (NAD 83):	2704699.31	Water Depth (*A*):	5.1 ~~5.4~~
Logged by:	MW/JH	Easting (NAD 83):	815400.55	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.45	Water surface to top of handle (*C*):	~~2.9~~ 3.4
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.2
		Time of Collection:	~~1221~~ 1227	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1232	Water surface from surveyed elevation (*F*):	0.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2		silt	black	loose	fine			Slight sheen when core emptied
1.6		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	RR22	Time On Station:	1239	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-RR22-00-25	Northing (NAD 83):	2704898.59	Water Depth (*A*):	4.3
Logged by:	MW/JH	Easting (NAD 83):	815425.84	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.20	Water surface to top of handle (*C*):	4.0
Date:	9/27/05	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	1241	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1245	Water surface from surveyed elevation (*F*):	-0.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5			silt clay matrix	gray	loose	fine			some sheen when core emptied
2.0			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	RR27	Time On Station:	1252	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-RR27-00-25	Northing (NAD 83):	270474.81	Water Depth (*A*):	4.2
Logged by:	MW/JH	Easting (NAD 83):	815425.17	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.30	Water surface to top of handle (*C*):	4.1
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	1253	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1258	Water surface from surveyed elevation (*F*):	-0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5								
2.3		sandy silt	gray black	loose	fine-med			
		clay	olive gray	firm	fine			
0.2								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	TT26	Time On Station:	1307	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-TT26-00-20	Northing (NAD 83):	2704800.16	Water Depth (*A*):	3.8
Logged by:	MW / JH	Easting (NAD 83):	815474.81	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.03	Water surface to top of handle (*C*):	5.0
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.0
		Time of Collection:	1309	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	~~1314~~ 1315	Water surface from surveyed elevation (*F*):	-1.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.0		silt	black	loose	fine			
1.4		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	LL40	Time On Station:	1342	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-LL40-~~00~~-25	Northing (NAD 83):	270449.66	Water Depth (*A*):	5.04.9
Logged by:	MW/JH	Easting (NAD 83):	815273.56	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.81	Water surface to top of handle (*C*):	~~3.1~~ 3.6
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.5
		Time of Collection:	~~1343~~ 1351	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1400	Water surface from surveyed elevation (*F*):	-1.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	~~-6.9~~ -7.3
(l)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.3
(l_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.3

(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.5			silt	black	loose	fine			
~~1.5~~ 1.9			silt clay	gray		fine			
1.5 HT									
0.0			clay	olive gray	firm	fine			

File ID of digital photograph(s):

Comments: 1st Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	LL36	Time On Station:	1409	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-LL36-00-22	Northing (NAD 83):	2704548.95	Water Depth (*A*):	4.6
Logged by:	MW / SH	Easting (NAD 83):	815275.46	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.25	Water surface to top of handle (*C*):	4.0
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.2
		Time of Collection:	1410	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1415	Water surface from surveyed elevation (*F*):	-1.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2			silt	black	loose	fine			Some sheen when core emptied
1.6			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	SS23	Time On Station:		**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-SS23-~~00~~-18	Northing (NAD 83):	2704873.92	Water Depth (*A*):	4.0
Logged by:	MW/SH	Easting (NAD 83):	815450.65	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.72	Water surface to top of handle (*C*):	4.9
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	1428	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1435	Water surface from surveyed elevation (*F*):	-1.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8			silt	black	loose	fine			
1.3			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	SS29	Time On Station:	1439	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-SS29-00-23	Northing (NAD 83):	270472.4.78	Water Depth (*A*):	4.0
Logged by:	MW / JH	Easting (NAD 83):	815450.67	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.27	Water surface to top of handle (*C*):	4.6
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.3
		Time of Collection:	1441	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1445	Water surface from surveyed elevation (*F*):	-1.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.3			silt	black	loose	fine			some sheen when core emptied
1.5			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	TT31	Time On Station:	1450	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-TT31-00-24	Northing (NAD 83):	2704676.15	Water Depth (*A*):	3.5
Logged by:	MW/JH	Easting (NAD 83):	815474.89	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.35	Water surface to top of handle (*C*):	4.8
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	1451	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1456	Water surface from surveyed elevation (*F*):	-1.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4			Silt	black	loose	fine			Some sheen when core emptied
1.8			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	LL33	Time On Station:	1505	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-LL33-017	Northing (NAD 83):	2704624.84	Water Depth (*A*):	4.5
Logged by:	MW/JH	Easting (NAD 83):	815274.83	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.35	Water surface to top of handle (*C*):	4.7
Date:	9/27/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.7
		Time of Collection:	1506	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1511	Water surface from surveyed elevation (*F*):	-1.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.7			silt	black	loose	fine			
	1.2			clay shells	olive gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	TT42	Time On Station:	0815	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-TT42-~~00~~-26	Northing (NAD 83):	270440 1.26	Water Depth (*A*):	~~3.8~~ 3.5
Logged by:	MW/JH	Easting (NAD 83):	815474.32	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.52	Water surface to top of handle (*C*):	4.6
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.6
		Time of Collection:	~~0816~~ 0822	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0830	Water surface from surveyed elevation (*F*):	-1.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.6		silt sand	gray black	loose	fine-med.			Sheen when core emptied
1.9		clay shells	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
1st attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	RR41	Time On Station:	0837	**All measurements are ±0.1 feet**	
Core Sample ID:	S-073-RR41-00-26	Northing (NAD 83):	270442.5.42	Water Depth (*A*):	4.6
Logged by:	MW/SH	Easting (NAD 83):	815423.40	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.66	Water surface to top of handle (*C*):	3.5
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.6
		Time of Collection:	0838	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0848	Water surface from surveyed elevation (*F*):	-0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.6			silt	black gray	loose	fine			slight sheen when core emptied
2.1			clay some shells	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	RR39	Time On Station:	0852	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-RR39-00-22	Northing (NAD 83):	2704474.80	Water Depth (*A*):	4.2
Logged by:	MW / JH	Easting (NAD 83):	815424.07	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.74	Water surface to top of handle (*C*):	4.4
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.2
		Time of Collection:	0853	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0902	Water surface from surveyed elevation (*F*):	-0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.2		silty sand	gray black	loose	fine			
1.8		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
Strong H_2S odor

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	SS38	Time On Station:	0905	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-SS38-00-18	Northing (NAD 83):	2704500.01	Water Depth (*A*):	4.9
Logged by:	MW/JH	Easting (NAD 83):	815446.44	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.04	Water surface to top of handle (*C*):	4.6
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	0908	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0917	Water surface from surveyed elevation (*F*):	-0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8			silt sand clay mix	gray black	loose	fine			very slight sheen when core emptied
1.4			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments: Strong H_2S odor

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	TT36	Time On Station:	0923	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-TT36-00-21	Northing (NAD 83):	2704550.45	Water Depth (*A*):	4.1
Logged by:	MW/SH	Easting (NAD 83):	815476.31	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.21	Water surface to top of handle (*C*):	4.7
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.1
		Time of Collection:	0923	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0932	Water surface from surveyed elevation (*F*):	-0.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.6

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.1			Silt	black gray	loose	fine			
~~1.6~~ 1.5			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	RR35	Time On Station:	0935	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-RR35-00-17	Northing (NAD 83):	2704574.48	Water Depth (*A*):	4.4
Logged by:	MW / JH	Easting (NAD 83):	815425.74	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.03	Water surface to top of handle (*C*):	4.6
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.7
		Time of Collection:	0936	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0940	Water surface from surveyed elevation (*F*):	-0.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.8

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.7			silt & clay sand	black gray	loose	fine			
1.5			Clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	QQ33	Time On Station:	0946	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-QQ33-00-16	Northing (NAD 83):	2704625.30	Water Depth (*A*):	6.0
Logged by:	MW/JH	Easting (NAD 83):	815400.08	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.18	Water surface to top of handle (*C*):	3.1
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	0947	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0953	Water surface from surveyed elevation (*F*):	-0.3

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.3
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6		silt	gray black	loose	fine			
1.4		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	UU22	Time On Station:	1007	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-UU22-00-18	Northing (NAD 83):	2704898.61	Water Depth (*A*):	~~4.5~~ 4.7
Logged by:	MW/SJY	Easting (NAD 83):	815498.34	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.07	Water surface to top of handle (*C*):	~~4.0~~ 4.2
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	1019 ~~1008, 1014~~	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1028	Water surface from surveyed elevation (*F*):	-0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8								
1.6		silt	black gray	loose	fine			Slight sheen when core emptied
		clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
1st Attempt N/G
2nd Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	YY22	Time On Station:	1034	**All measurements are ±0.1 feet**	
Core Sample ID:	S-078-YY22-08-18	Northing (NAD 83):	2709898.34	Water Depth (*A*):	3.8
Logged by:	MW / JH	Easting (NAD 83):	815600.16	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.44	Water surface to top of handle (*C*):	5.1
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	1035	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	~~1044~~ 1052	Water surface from surveyed elevation (*F*):	-0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8			silt	black gray	loose	fine			
1.7			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	BBB23	Time On Station:	1102	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-BBB23-00-09	Northing (NAD 83):	2704874.97	Water Depth (*A*):	2.3
Logged by:	MW/JH	Easting (NAD 83):	815675.58	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.69	Water surface to top of handle (*C*):	6.5
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	0.9
		Time of Collection:	1103	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1113	Water surface from surveyed elevation (*F*):	+0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9			sand	gray tan	loose	fine			
0.5			sandy silt	gray black	loose	fine			
0.2			sand gravel	tan gray	loose	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	ZZ25	Time On Station:	1117	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-ZZ25-00-16	Northing (NAD 83):	2704825.88	Water Depth (*A*):	4.0
Logged by:	MW/JH	Easting (NAD 83):	515622.97	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.76	Water surface to top of handle (*C*):	4.4
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	1118	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1125	Water surface from surveyed elevation (*F*):	0.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6			Silty Sand	gray black	loose	fine-med			
1.3			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	WW24	Time On Station:	1130	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-WW24-00-21	Northing (NAD 83):	270484.27	Water Depth (*A*):	4.4
Logged by:	MW / SH	Easting (NAD 83):	815549.65	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.53	Water surface to top of handle (*C*):	3.3
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.1
		Time of Collection:	1131	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1136	Water surface from surveyed elevation (*F*):	0.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.4
(l)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.6
(l_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.4

(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.1			silt	gray black	loose	fine			
1.3			clay shells	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	BBB27	Time On Station:	1146	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-BBB27-00-15	Northing (NAD 83):	270473.36	Water Depth (*A*):	2.8
Logged by:	MW/JH	Easting (NAD 83):	815673.32	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.04	Water surface to top of handle (*C*):	5.6
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	1147	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1155	Water surface from surveyed elevation (*F*):	+0.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.4

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5		sand	gray tan	loose	fine-coarse			
1.0		clayey/ sand & organic matter	olive	firm	fine-med.			
0.0								

File ID of digital photograph(s):

Comments:

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	AAA30	Time On Station:	1204	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-AAA30-00-11	Northing (NAD 83):	2704701.26	Water Depth (*A*):	3.6 ~~3.4~~ ~~3.8~~
Logged by:	MW / JTH	Easting (NAD 83):	815647.31	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.13	Water surface to top of handle (*C*):	~~4.8~~ 5.1
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.1
		Time of Collection:	1209 ~~1204~~	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1215	Water surface from surveyed elevation (*F*):	+0.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.1		sand silt mix	tan gray	loose	fine-med			
0.4		clay gravel	olive gray	firm	fine-coarse			
0.0								

File ID of digital photograph(s):

Comments:

1st Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	FT30	Time On Station:	1218	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-FT30-00-23	Northing (NAD 83):	2704702.15	Water Depth (*A*):	5.2
Logged by:	MW / JH	Easting (NAD 83):	815473.65	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.25	Water surface to top of handle (*C*):	2.2
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.3
		Time of Collection:	1219	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1223	Water surface from surveyed elevation (*F*):	+0.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.3			silt clay mix	gray black	loose	fine			
1.7			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	WW 29	Time On Station:	1232	**All measurements are ±0.1 feet**	
Core Sample ID:	S-03B-WW29-09-15	Northing (NAD 83):	270425.10	Water Depth (*A*):	4.8
Logged by:	AW/JH	Easting (NAD 83):	815549.50	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.83	Water surface to top of handle (*C*):	3.4
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	1233	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1242	Water surface from surveyed elevation (*F*):	+0.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.4

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5									
			Clay	Olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments: Clay to 1.5 with silt veneer

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	VV27 ~~W27~~	Time On Station:	1245	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07B-VV27-00-17	Northing (NAD 83):	2704774.77	Water Depth (*A*):	5.5
Logged by:	MW/JTH	Easting (NAD 83):	815525.90	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.26	Water surface to top of handle (*C*):	2.6
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.7
		Time of Collection:	1246	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1251	Water surface from surveyed elevation (*F*):	+0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.7			silt	gray black	loose	fine			
1.4			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	YY28	Time On Station:	1255	**All measurements are ±0.1 feet**	
Core Sample ID:	S-475-YY28-99-16	Northing (NAD 83):	2704751.08	Water Depth (*A*):	5.0
Logged by:	MW/SH	Easting (NAD 83):	815599.99	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.36	Water surface to top of handle (*C*):	3.2
Date:	10/4/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	1256	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1300	Water surface from surveyed elevation (*F*):	+0.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.2

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6	—	—	Sand silt clay mix	dark gray	loose	fine-med	—	—	—
1.1			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

This page intentionally left blank

Post-dredge Sediments

This page intentionally left blank

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	M12	Time On Station:	1244	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-0M12-00-14	Northing (NAD 83):	2707498.277	Water Depth (*A*):	3.2
Logged by:	MW / MM	Easting (NAD 83):	815850.433	Length of push core assembly (*B*):	9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.51	Water surface to top of handle (*C*):	4.3'
Date:	11/5/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4'
		Time of Collection:	12:48	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1255	Water surface from surveyed elevation (*F*):	+0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4			Silt	Black	loose	fine			
1.0			Clay/Silt	Dark gray to Olive gray (Shells)	firm	fine to med			
			Clay						
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	N14	Time On Station:	1259	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-ØN14-ØØ-16	Northing (NAD 83):	270744.6356	Water Depth (*A*):	3.9
Logged by:	MW/MM	Easting (NAD 83):	815873.954	Length of push core assembly (*B*):	9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.47	Water surface to top of handle (*C*):	3.2
Date:	11/5/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	1300	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1312	Water surface from surveyed elevation (*F*):	+0.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6		Silt	Black	loose	fine			S-ØZD-ØN14-ØØ-ØS
1.1								TOP 0.5' ~~will be~~
		Clay (shells)	olive gray	firm	fine			Sampled for PCB+TOC/G
0.0								on 12/11/07 JMF/MW

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	N10	Time On Station:	1319	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-ØN10-Ø0-12	Northing (NAD 83):	2707547.948	Water Depth (*A*):	~~3.5~~ 2.9
Logged by:	MW	Easting (NAD 83):	815 875.614	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.28	Water surface to top of handle (*C*):	~~3.5~~ 3.7
Date:	11/5/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	~~1325~~ 1332	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1340	Water surface from surveyed elevation (*F*):	+0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2		silt	Black	loose	fine			
0.8								
		Clay	olive gray	firm	fine			
0.0								

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	I1	Time On Station:	0906	**All measurements are ±0.1 feet**	
Core Sample ID:	S07D-00I1-00-10	Northing (NAD 83):	2707772.65	Water Depth (*A*):	2.7
Logged by:	MW	Easting (NAD 83):	815748.28	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.36	Water surface to top of handle (*C*):	4.2
Date:	11/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.0
		Time of Collection:	0910	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0914	Water surface from surveyed elevation (*F*):	+1.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-2.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.00		Silt Clay	Black	Loose/firm	fine			Clumps of Clay mixed in silt layer
0.5		Clay	Olive gray		fine			S-07D-00I1-00-05 ①
0.0								

File ID of digital photograph(s):

Comments:
① PCB + GS/TOC Splits taken
thawed + subsampled 12/11/07

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	01	Time On Station:	0918	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0001-00-15	Northing (NAD 83):	2707775.22	Water Depth (*A*):	3.0
Logged by:	MW	Easting (NAD 83):	815899.20	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.90	Water surface to top of handle (*C*):	3.3
Date:	11/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	0921	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0926	Water surface from surveyed elevation (*F*):	+0.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.2

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.5			Silt	Black	loose	fine			S-07D-0001-00-06
	0.9			Clay	Olive gray	firm	fine			PCB + TOC/GS samples taken from TOP 0.6' on 12/11/07 JMF/MW
	0.0									Chemical Odor 12/11/07 JMF/MW

File ID of digital photograph(s):

Comments: Slight sheen on top of core

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	K2	Time On Station:	0928	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-00K2-00-14	Northing (NAD 83):	2707749.12	Water Depth (*A*):	2.3
Logged by:	MW	Easting (NAD 83):	815800.88	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.27	Water surface to top of handle (*C*):	4.1
Date:	11/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	0930	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0936	Water surface from surveyed elevation (*F*):	+0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.6

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.4			Silt	Black	loose	fine			S-07D-00K2-00-08
	0.6									TOP 0.8'
				clay (shells)	olive gray	firm	fine			PCB+ GSI samples
	0.0									taken 12/11/07 JMF/MW

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	I4	Time On Station:	0940	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-00I4-00-14	Northing (NAD 83):	270770.66	Water Depth (*A*):	2.0
Logged by:	MW	Easting (NAD 83):	815760.75	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.43	Water surface to top of handle (*C*):	4.4
Date:	11/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	0946	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0950	Water surface from surveyed elevation (*F*):	*0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.4

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.4			Silt	Black	loose	Fine			S-07D-00I4-00-07
	0.7									PCB + GS/TOC
				Clay (shell)	Olive gray	Firm	Fine			samples taken 12/11/07
	0.0									

File ID of digital photograph(s):

Comments:

Battelle The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	N4	Time On Station:	0953	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-00N4-00-12	Northing (NAD 83):	2707703.45	Water Depth (*A*):	3.5
Logged by:	MW	Easting (NAD 83):	815874.30	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.08	Water surface to top of handle (*C*):	3.2
Date:	11/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	0956	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1000	Water surface from surveyed elevation (*F*):	+0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2		Silt	Black	loose	Fine			S-07D-00N4-00-06
0.6		Clay	Olive gray	Firm	Fine			PCB + TOC/GS samples taken on 12/11/07 from TOP 0.6' JMF/MW
0.0								slight sheen on surface of core 12/11/07 JMF/MW

File ID of digital photograph(s):

Comments: Slight sheen on top of core

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	M7	Time On Station:	1002	**All measurements are ±0.1 feet**	2.1
Core Sample ID:	S-07D-00M7-00-14	Northing (NAD 83):	2707623.88	Water Depth (*A*):	~~23~~
Logged by:	MW	Easting (NAD 83):	815849.85	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.71	Water surface to top of handle (*C*):	4.4
Date:	11/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	~~1005~~ 1012	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1015	Water surface from surveyed elevation (*F*):	+0.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4		Silt	Black	loose	fine			
1.00								
		Clay	Black/gray	firm	Fine			
0.0								

File ID of digital photograph(s):

Comments:
1st Attempt N/G
Sheen on surface of core

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	J14	Time On Station:	1024	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0J14-00-15	Northing (NAD 83):	2707447.32	Water Depth (*A*):	2.7
Logged by:	MW	Easting (NAD 83):	815777.65	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.23	Water surface to top of handle (*C*):	3.6
Date:	11/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	1028	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1033	Water surface from surveyed elevation (*F*):	0.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5		Silt	Black	loose	Fine			S-07D-0J14-00-06
0.9		Clay (shells)	olive gray	Firm	Fine			① TOP 0.6'
0.0								Slight sheen on top of core 12/11/07 JMF/MW

File ID of digital photograph(s):

Comments:
Slight sheen on surface of core ① PCB + TOC/GS sample taken 12/11/07 JMF/MW

1.2

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	Q9	Time On Station:	1040	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-QQQ9-QQ-12	Northing (NAD 83):	2707575.88	Water Depth (*A*):	2.5
Logged by:	MW	Easting (NAD 83):	815950.80	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.72	Water surface to top of handle (*C*):	4.2
Date:	11/6/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	1042	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1046	Water surface from surveyed elevation (*F*):	0.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2		Silt	Black	loose	fine			S-07D-QQQ9-QQ05
0.7		Clay	Olive gray	firm	fine			Samples taken from top 0.5 for PCB (Homologues) + TOC/G on 12/11/07 JMF/MW
0.0								slight sheen on surface 12/11/07 JMF/MW

File ID of digital photograph(s):

Comments:

1.2

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	I7	Time On Station:	0744	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-00I7-00-12	Northing (NAD 83):	2707635.439	Water Depth (*A*):	4.1
Logged by:	mw	Easting (NAD 83):	815750.247	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.87	Water surface to top of handle (*C*):	2.6
Date:	11/8/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	0749	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0751	Water surface from surveyed elevation (*F*):	+2.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+2.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-1.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-1.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2		Silt	Black	loose	Fine			
		Clay (sketb)	Black/gray to olive gray	stiff	Fine			
0.0								

File ID of digital photograph(s):

Comments:

1.5

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	K5	Time On Station:	0757	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-~~00~~K5-~~00~~-15	Northing (NAD 83):	270673.94	Water Depth (*A*):	4.1
Logged by:	MW	Easting (NAD 83):	815799.88	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.26	Water surface to top of handle (*C*):	2.1
Date:	11/8/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	0801	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0803	Water surface from surveyed elevation (*F*):	+2.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+2.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-1.9

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5			silt fine sand	Black	loose	fine to med			S-07D-~~00~~K5-~~00~~-~~00~~
0.9			silt sand clay to clay	gray black to olive gray	stiff	fine to med			TOP 0.6' taken for TCB + TOC/GS analysis on 12/11/07 JMF/[illegible]
0.0									sheen on top of core 12/11/07 JMF/[illegible]

File ID of digital photograph(s):

Comments:

029

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	Q6	Time On Station:	0805	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-0026-00-09	Northing (NAD 83):	2707649.60	Water Depth (*A*):	4.4
Logged by:	MW	Easting (NAD 83):	815947.40	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.41	Water surface to top of handle (*C*):	2.5
Date:	11/8/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	0.9
		Time of Collection:	0812	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0814	Water surface from surveyed elevation (*F*):	+2.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+2.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.3

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
0.9			silt clay	Dark gray	firm	fine			
0.7									
			Clay (wood chips)	olive gray	firm	fine med			
0.0									

File ID of digital photograph(s):

Comments:

1.3

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	J10 ~~DUP~~ MW	Time On Station:	0822	**All measurements are ±0.1 feet**	
Core Sample ID:	S-010-0J10-00-13	Northing (NAD 83):	270754 8.85	Water Depth (*A*):	3.8
Logged by:	MW	Easting (NAD 83):	815774.26	Length of push core assembly (*B*):	8.8
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.34	Water surface to top of handle (*C*):	3.6
Date:	11/8/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.3
		Time of Collection:	0835	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0854	Water surface from surveyed elevation (*F*):	+1.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.1

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.3		Silt	Black	loose	fine			S-010-0J10-~~00-07~~
1.0		Silt Clay	Dark gray	firm	fine			Blurred through middle (two transitions) ①
0.6		Clay (Shells)	olive gray	firm	fine			
0.0								Slight sheen surface 12/4/07

File ID of digital photograph(s):

Comments:

① PCB + GS/TOC samples taken thawed + subsampled 12/11/07

1.1

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	J10 DUP	Time On Station:	0822	**All measurements are ±0.1 feet**	
Core Sample ID:	S-ØTD-ØJ10-00-12-REP	Northing (NAD 83):	2707548.85	Water Depth (*A*):	3.6
Logged by:	MW	Easting (NAD 83):	815774.26	Length of push core assembly (*B*):	7.7
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.34	Water surface to top of handle (*C*):	2.8
Date:	11/8/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	0843	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0854	Water surface from surveyed elevation (*F*):	+1.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.3
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2		Silt	Black	loose	fine			S-ØTD-ØJ1Ø-ØØ-Ø7-REP
0.5		Clay	olive gray	firm	fine			① TOP 0.7'
0.0								slight sheen on surface 12/11/07 JMF/MW

File ID of digital photograph(s):

Comments:
① PCB + GS/TOC Sampler taken on 12/11/07 JMF/MW

0.9

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	P12	Time On Station:	0857	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0P12-00-09	Northing (NAD 83):	2707494.740	Water Depth (*A*):	3.4
Logged by:	MW	Easting (NAD 83):	815924.187	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.33	Water surface to top of handle (*C*):	3.5
Date:	11/8/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	0.9
		Time of Collection:	0901	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0905	Water surface from surveyed elevation (*F*):	+1.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-2.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	0.9			Silt	Black gray	loose	fine			
	0.6			Clay	Olive gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:

1.5

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	M17	Time On Station:	0908	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-0M17-00-15	Northing (NAD 83):	2707372.71	Water Depth (*A*):	4.2
Logged by:	MW	Easting (NAD 83):	815851.07	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.9	Water surface to top of handle (*C*):	2.0
Date:	11/8/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	0912	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0915	Water surface from surveyed elevation (*F*):	+1.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+1.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5		organic silt	gray black	loose	fine			S-070-0M17-00-06
1.3		silt	black	loose	fine			
0.9		clay	olive gray	firm	fine			TOP 0.6' composed on 12/11/07 for TOC/GS + PCB + Homologous JMP/MW
0.0								slight sheen on surface 12/11/07 JMP/MW

File ID of digital photograph(s):

Comments:

1.4

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	J18	Time On Station:	0920	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-0J18-00-14	Northing (NAD 83):	2707348.03	Water Depth (*A*):	3.4
Logged by:	mw	Easting (NAD 83):	815773.46	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	4.68	Water surface to top of handle (*C*):	2.4
Date:	11/8/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	0923	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0927	Water surface from surveyed elevation (*F*):	+0.9

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	+0.9
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.5

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4		organic silt	gray/black	loose	fine			some sand
1.1		silt/organic clay mix	olive gray/black	firm	fine			very mottled silt/clay mix over clay
0.0								

File ID of digital photograph(s):

Comments:

2.8

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	K21	Time On Station:	0931	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-0K21-00-28	Northing (NAD 83):	270 7272.16	Water Depth (*A*):	3.9
Logged by:	MW	Easting (NAD 83):	815801.50	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.83	Water surface to top of handle (*C*):	3.0
Date:	11/8/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.8
		Time of Collection:	1014	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1018	Water surface from surveyed elevation (*F*):	-0.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.0

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.8			organic silt	Black gray	loose	fine			S-07D-0K21-00-12
	2.1			silt	Black gray	loose to firm	fine			mottled mix of silt and clay
	1.6			clay	olive gray	firm	fine			TOP 1.2' taken on 12/11/07 for PCB, TOC/G + QA Splits 12/11/07 JMP/MW
	0.0									slight sheen on top 12/11/07 JMP/MW

File ID of digital photograph(s):

Comments:
First 4 Attempts N/G

Page ____ of ____

1.5

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** Theresa Himmer

Station ID:	M20	Time On Station:	1025	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-BM20-OA-15	Northing (NAD 83):	2707247.70	Water Depth (*A*):	~~2~~42.3
Logged by:	MW	Easting (NAD 83):	815851.82	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.75	Water surface to top of handle (*C*):	4.0
Date:	11/8/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	~~1049~~ 1035	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1039	Water surface from surveyed elevation (*F*):	-0.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-4.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-2.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.7

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.5			Silt	Black	loose	fine			Streaks down to 0.7
	1.2									
				Clay	Olive gray	firm	fine			
	0.0									

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	WW41	Time On Station:	1052	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-WW41-00-1.3	Northing (NAD 83):	270442.7	Water Depth (*A*):	6.0
Logged by:	MW	Easting (NAD 83):	815549.7	Length of push core assembly (*B*):	7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.34	Water surface to top of handle (*C*):	1.4
Date:	11/14/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.3
		Time of Collection:	1056	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1100	Water surface from surveyed elevation (*F*):	2.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.5
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.3			Silt Clay mix	Black and Gray	loose and firm	fine			Mix layers of Silt and Clay
0.7			Clay	olive gray	firm	fine			S-07D-WW41-00-06
6.0									TOP 0.6' sampled for PCB + TOC/GS on 12/12/07 JMF/MW

File ID of digital photograph(s):

Comments:

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M Walsh

Station ID:	XX 37	Time On Station:	1108	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-XX37-00-14	Northing (NAD 83):	2704524.4	Water Depth (*A*):	6.4
Logged by:	MW	Easting (NAD 83):	815575.2	Length of push core assembly (*B*):	9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.14	Water surface to top of handle (*C*):	1.1
Date:	11/14/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	1111	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1112	Water surface from surveyed elevation (*F*):	2.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.0
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4			Silt	Black	Loose	fine			
1.0			Silt Clay	gray Black	Firm	fine			mixed layer of Silt and Clay
0.4			Clay	olive gray	Firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
~~12th Attempt N/G washed~~ MW

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	YY32	Time On Station:	1137	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-YY32-00-13	Northing (NAD 83):	270648.6	Water Depth (*A*):	6.7
Logged by:	MW	Easting (NAD 83):	815600.9	Length of push core assembly (*B*):	9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.56	Water surface to top of handle (*C*):	0.8
Date:	11/17/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.3
		Time of Collection:	1140	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1143	Water surface from surveyed elevation (*F*):	2.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.6
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.3		Silt	Black	loose	fine			S-07D-YY32-00-02
1.1								
		Clay	Olive Gray	firm	fine			TOP 0.2' sampled for TCB + TOC/GS on 12/12/07 JMF/MCW
0.0								

File ID of digital photograph(s):

Comments:
~~1st Attempt NG~~ (MW)

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	WW29	Time On Station:	1157	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-WW29-00-14	Northing (NAD 83):	2704725.5	Water Depth (*A*):	6.2
Logged by:	MW	Easting (NAD 83):	815550.3	Length of push core assembly (*B*):	9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.06	Water surface to top of handle (*C*):	1.3
Date:	11/14/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	1156	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1158	Water surface from surveyed elevation (*F*):	1.9

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.9
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-4.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.3
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.4			Silt	Black	loose	Fine			
	1.0									Some streaking
				Clay	olive gray	firm	Fine			
	0.0									

File ID of digital photograph(s):

Comments:

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	WW24	Time On Station:	1205	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-WW24-08-15	Northing (NAD 83):	2704848.8	Water Depth (*A*):	6.4
Logged by:	MW	Easting (NAD 83):	815549.6	Length of push core assembly (*B*):	9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.50	Water surface to top of handle (*C*):	0.9
Date:	11/14/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	~~1209~~ 1221	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1224	Water surface from surveyed elevation (*F*):	1.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.8
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.5			Silt	Black	loose	fine			S-07D-WW24-08-08
	0.7									Some streaking
				Clay	olive gray	firm	fine			
	0.0									TOP 0.8' sampled for PCB + TOC/GS analysis on 12/12/07 JMF/MW

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	BBB 34	Time On Station:	0850	**All measurements are ±0.1 feet**	
Core Sample ID:	S070-BBB34-00-11	Northing (NAD 83):	270460.15	Water Depth (*A*):	2.5
Logged by:	MW	Easting (NAD 83):	815676.62	Length of push core assembly (*B*):	6.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.4	Water surface to top of handle (*C*):	~~0.2~~
Date:	11/15/02	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.1
		Time of Collection:	0858	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0900	Water surface from surveyed elevation (*F*):	+0.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	~~-2.6~~ -2.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.1
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.1			Sand with Silt throughout	gray Brown	loose	fine to mud			no noticible Transition
0.0									

File ID of digital photograph(s):

Comments:
- Approx 1' lost on bottom (loose sand Fell out)
(1) wo 1. 2. 11/30/07

6 - 2.5 = 3.5
- 1.2
2.3

Page 1 of 1

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	BBB23	Time On Station:	0908	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-BBB23-00-13	Northing (NAD 83):	2704874.17	Water Depth (*A*):	2.8 ~~2.8~~ ~~3.1~~
Logged by:	MW/JF	Easting (NAD 83):	815675.45	Length of push core assembly (*B*):	6.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.22	Water surface to top of handle (*C*):	1.7 ~~1.7~~
Date:	11/16/07	Predicted Tide (ft):	~~0.2~~ NA	Length of core (from bottom) (*D*):	1.3
		Time of Collection:	~~0.2~~ 0933	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0936	Water surface from surveyed elevation (*F*):	+0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-3.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-3.3
(l)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	~~2.5~~ -2.4
(l_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-2.2
	(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)	

	Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.3			Sand fine to med	light Brown over	loose	fine to med			S-07D-BBB23-00-09
	0.4				~~Brown~~					
	0.0			fine sand	Brown	loose to firm	fine			Samples taken from top 0.9' for PCB + TOC/GS analysis on 12/11/07 JMF/MW

File ID of digital photograph(s):

Comments:

1st Attempt N/G
2nd Attempt - water in sampler
3rd Attempt -

Ⓓ WO 8.8 11/30/07

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** m walsh

Station ID:	SS23	Time On Station:	0946	**All measurements are ±0.1 feet**	
Core Sample ID:	S-NFD-SS23-~~00~~-1.4	Northing (NAD 83):	270487.7	Water Depth (*A*):	6.0
Logged by:	MW	Easting (NAD 83):	815450.07	Length of push core assembly (*B*):	9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.79	Water surface to top of handle (*C*):	1.4
Date:	11/16/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	0951	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0953	Water surface from surveyed elevation (*F*):	*0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.4
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4									
1.1			Silt	Black	loose	fine			
			Clay	Olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	SS29	Time On Station:	0959	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-SS29-00-15	Northing (NAD 83):	2704724.5	Water Depth (*A*):	5.8
Logged by:	MW	Easting (NAD 83):	815450.8	Length of push core assembly (*B*):	9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.72	Water surface to top of handle (*C*):	1.5
Date:	11/16/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	1003	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1009	Water surface from surveyed elevation (*F*):	+0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.2
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5			Silt	Black	loose	fine			
1.1			Silt Clay	gray black	firm	fine			mixed silt clay layer
0.8			Clay	Olive gray	firm	fine			S-07D-SS29-00-07
0.0									Sampled TOP 0.7' for PLB+TOC/GS analysis on 12/12/07 JMF/MW

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	VV34	Time On Station:	1016	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-VV34-00-24	Northing (NAD 83):	2704597.63	Water Depth (*A*):	5.0
Logged by:	MW	Easting (NAD 83):	815525.64	Length of push core assembly (*B*):	9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.26	Water surface to top of handle (*C*):	1.2
Date:	11/16/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.4
		Time of Collection:	1021	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1026	Water surface from surveyed elevation (*F*):	+1.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.8
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.4			Silt	Black	loose	fine			S-07D-VV34-00-10
1.4			Clay	Olive gray	firm	fine			TOP 1.0' sampled for PCB/TOC/GS analysis on 12/12/07 JMP/MW
0.0									

File ID of digital photograph(s):

Comments:
Heavy streaking made determining transition difficult.

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	TT39	Time On Station:	1034	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-TT39-00-L4	Northing (NAD 83):	2704474.44	Water Depth (*A*):	6.8
Logged by:	MW	Easting (NAD 83):	815476.00	Length of push core assembly (*B*):	7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.36	Water surface to top of handle (*C*):	0.7
Date:	11/16/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	1038	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1041	Water surface from surveyed elevation (*F*):	1.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.3
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4			Silt	Black	loose	fine			
1.1									some streaking of silt layer
			Clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:
slight sheen on surface of core

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	RR35	Time On Station:	1048	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-RR35-00-12	Northing (NAD 83):	2764574.72	Water Depth (*A*):	6.5
Logged by:	MW	Easting (NAD 83):	515425.95	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.94	Water surface to top of handle (*C*):	0.0
Date:	11/16/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	1052	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1057	Water surface from surveyed elevation (*F*):	1.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.2
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.9
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2			Silt	Black	loose	fine			
0.9			Clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	0026	Time On Station:	1106	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0026-00-14	Northing (NAD 83):	2704795.93	Water Depth (*A*):	6.8
Logged by:	MW	Easting (NAD 83):	815349.49	Length of push core assembly (*B*):	9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.22	Water surface to top of handle (*C*):	0.7
Date:	11/16/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	1111	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1112	Water surface from surveyed elevation (*F*):	1.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.2
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4			Silt	Dark Brown	loose	fine			
1.0			Silt	Black	med loose	fine			maybe silt clay mix
0.7			Clay	olive gray	firm	fine			
0.0									S-07D-0026-00-07

TOP 0.7' was sampled for PCB + TOC/GS analysis on 12/12/07
JMP/MW

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	0032	Time On Station:	1128	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0032-00-14	Northing (NAD 83):	270464.64	Water Depth (*A*):	7.2
Logged by:	MW	Easting (NAD 83):	815350.44	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.51	Water surface to top of handle (*C*):	1.3
Date:	11/16/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	1132	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1134	Water surface from surveyed elevation (*F*):	+2.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.2
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4		Silt over silt clay	Brown Black	loose	fine			Appears some mixing of layers due to Dredge or Debris Removal
0.6		Clay with some silt streaks	Olive gray Black streaks	Firm	fine			S-07D-0032-00-08
0.0								TOP 0.8' sampled for PCB + TOC/GS analysis on 12/12/07 JMF/MW

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M-Walsh

Station ID:	0038	Time On Station:	1148	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0038-00-1.7	Northing (NAD 83):	2704498.3	Water Depth (*A*):	8.2
Logged by:	MW	Easting (NAD 83):	853349.9	Length of push core assembly (*B*):	12.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	4.65	Water surface to top of handle (*C*):	1.9
Date:	11/14/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.7
		Time of Collection:	1155	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1157	Water surface from surveyed elevation (*F*):	+1.9

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.9
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.3
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.7			Silt	Brown Black	loose	fine			S-07D-0038-00-05
	1.2			Clay	Olive gray	firm	fine			TOP 0.5' sampled for PCB + TOC/GS analysis on 12/12/07 JMF/MW
	0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	LL34	Time On Station:	0855	**All measurements are ±0.1 feet**	
Core Sample ID:	SPFD-LL34-00-14	Northing (NAD 83):	270458.8	Water Depth (*A*):	5.1
Logged by:	MW	Easting (NAD 83):	815279.48	Length of push core assembly (*B*):	8.2
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.34	Water surface to top of handle (*C*):	1.4
Date:	11/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	0901	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0907	Water surface from surveyed elevation (*F*):	-1.0

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.0
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.8
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.1
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4			Silt	Black	loose	fine	—	—	—
1.3			Clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	0042	Time On Station:	0909	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0042-00-18	Northing (NAD 83):	270499.8	Water Depth (*A*):	4.9
Logged by:	MW	Easting (NAD 83):	815356.2	Length of push core assembly (*B*):	7.8
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.58	Water surface to top of handle (*C*):	1.6
Date:	11/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.8
		Time of Collection:	0920	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0924	Water surface from surveyed elevation (*F*):	-0.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.6
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.7
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.8		Silt	brown black	very loose	fine			
1.5		silt clay	black	loose	fine			mixed clay silt layer
1.0		Clay	olive gray	firm	fine			some streaking
0.0								

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	MM29	Time On Station:	0928	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-MM29-00-15	Northing (NAD 83):	2704722.41	Water Depth (*A*):	4.9
Logged by:	MW	Easting (NAD 83):	515279.8	Length of push core assembly (*B*):	~~3.0~~ 9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.65	Water surface to top of handle (*C*):	~~1.3~~ 1.4
Date:	11/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	0945	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	0950	Water surface from surveyed elevation (*F*):	-0.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.7
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5		silt	brown black	very loose	fine			
1.1		silt	black	loose	fine			S-07D-MM29-0009
0.6		clay	olive gray	firm	fine			
0.0								Sampled TOP 0.9' for PCB + TOC/GS analysis on 12/12/07 SMF/MW
								Homologues analyzed

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** m-walsh

Station ID:	MM 22	Time On Station:	1000	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-MM22-00-10	Northing (NAD 83):	2704898.1	Water Depth (*A*):	4.9
Logged by:	MW	Easting (NAD 83):	815301.99	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.94	Water surface to top of handle (*C*):	1.8
Date:	11/26/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.0
		Time of Collection:	10:00	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	10:10	Water surface from surveyed elevation (*F*):	-0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-6.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.4
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.6
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.0		Silt Clay	Black	loose	fine			Top half appears mottled and mixed
0.5		Clay	Olive gray	firm	fine			S-07D-MM22-00-05
0.0								Sampled TOP 0.5' for PCB + TOC/GS analysis on 12/12/07 JMF/MW
								Oily sheen seen when processing sample 12/12/07 JMF

File ID of digital photograph(s):

Comments:

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	HH22	Time On Station:	1015	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-HH22-00-16	Northing (NAD 83):	2764849.2	Water Depth (*A*):	5.1
Logged by:	MW	Easting (NAD 83):	815173.9	Length of push core assembly (*B*):	3.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.35	Water surface to top of handle (*C*):	1.0
Date:	11/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	1020	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1027	Water surface from surveyed elevation (*F*):	-0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.8
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.6			Silt	very Black Black	loose	fine			S-07D-HH22-00-10
	0.6			clay	olive gray	firm	fine			Samples taken on 12/10/07 from TOP 1.0' for PCB + TOC/GS analysis JMF/MW
	0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	II25	Time On Station:	1033	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-II25-00-14	Northing (NAD 83):	2704836.88	Water Depth (*A*):	4.9
Logged by:	MW	Easting (NAD 83):	815201.0	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	1.93	Water surface to top of handle (*C*):	1.5
Date:	11/30/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	1038	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1040	Water surface from surveyed elevation (*F*):	-0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.2
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.2
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.8
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.6
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.4			Silt	brown black	loose	fine			
	1.0									
				Clay	Olive gray	firm	fine			0.7 to 1.0 of clay layer is broken with some silt mixing in this zone.
	0.0									
										S-07D-II25-00-04
										Samples taken from TOP 0.4 for PCB + TOC/GS analysis on 12/11/07 JMF/MW

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	KK27	Time On Station:	1054	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-KK27-00-14	Northing (NAD 83):	270471.6	Water Depth (*A*):	4.6
Logged by:	MW	Easting (NAD 83):	815250.9	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.24	Water surface to top of handle (*C*):	1.7
Date:	11/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	1100	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1107	Water surface from surveyed elevation (*F*):	-0.7

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.7
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.6
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.3
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.4			silt	brown black	very loose	fine			Two Distinguished upper silt layers
1.1			silt	black	loose	fine			
0.5									
			Clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Valyk

Station ID:	6629	Time On Station:	1112	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-6629-00-13	Northing (NAD 83):	2704717.44	Water Depth (*A*):	38
Logged by:	MW	Easting (NAD 83):	515149.61	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.77	Water surface to top of handle (*C*):	2.9
Date:	11/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.3
		Time of Collection:	1113	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1122	Water surface from surveyed elevation (*F*):	-0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.6
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-5.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-5.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-4.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-4.4
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.3			silt	brown	loose	fine			flock/silt
1.2			silt	Black	loose	fine			
0.7			Clay	Olive gray	firm	fine			Some streaking
0.0									S-07D-6629-00-06
									Samples taken from TOP 0.6 for PCB + TOC/GS analysis on 12/11/07 JMF

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** m-walsh

Station ID:	KK32	Time On Station:	1127	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-KK32-00-15	Northing (NAD 83):	2704649.3	Water Depth (*A*):	5.3
Logged by:	MW	Easting (NAD 83):	815247.38	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.05	Water surface to top of handle (*C*):	1.0
Date:	11/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	1133	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1135	Water surface from surveyed elevation (*F*):	-0.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.0
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.8
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	/

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5			Silt	Brown Black	loose	fine			Two distinguished silt layer
1.0			Silt	Black	loose	fine			
0.6			Clay	Olive gray	firm	fine			S-07D-KK32-00-09
0.0									Samples taken from TOP 0.9' for PCB + TOC/GS analysis 12/11/07 TMF/MW

File ID of digital photograph(s):

Comments:

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	LL40	Time On Station:	1148	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-LL40-00-12	Northing (NAD 83):	2704449.3	Water Depth (*A*):	5.9
Logged by:	MW	Easting (NAD 83):	815274.3	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.05	Water surface to top of handle (*C*):	0.9
Date:	11/26/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.2
		Time of Collection:	1155	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1157	Water surface from surveyed elevation (*F*):	-0.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.5
(z*)	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.7
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.3
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.3
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.2			Silt	Brown Black	loose	fine			
0.8									Silt Clay layer B Sloped
			Clay (some shell)	olive gray	firm	fine to (med)			
0.0									S-07D-LL40-00-03
									Sampled TOP 0.3' for PCB + TOC/GS analysis on 12/12/07 JMF/MW

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	II36	Time On Station:	1203	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-II36-00-15	Northing (NAD 83):	270455 0.7	Water Depth (*A*):	5.4
Logged by:	MW	Easting (NAD 83):	815199.8	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.42	Water surface to top of handle (*C*):	0.8
Date:	11/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.5
		Time of Collection:	1208	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1211	Water surface from surveyed elevation (*F*):	-0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.4
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.6
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.5									Slight sheen on surface of core
			Silt	Black	loose	fine			S-07D-II36-00-06
0.9			Clay	olive gray	firm	fine			Samples taken from TOP 0.6 for PCB + TOC/GS analysis on 12/11/07 JMK
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	HH42	Time On Station:	1216	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-HH42-00-16	Northing (NAD 83):	2704399.7	Water Depth (*A*):	5.9
Logged by:	MW	Easting (NAD 83):	8517506	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.03	Water surface to top of handle (*C*):	0.4
Date:	11/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.6
		Time of Collection:	1220	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1223	Water surface from surveyed elevation (*F*):	-0.1

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.7
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.1
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.0
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
1.6			silt	Brown Black	loose	fine			Flocky Brown silt layer mixed with black silt on top layer
1.3			silt	Black	loose	fine			
0.8			clay	olive gray	firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring*
Location: *New Bedford, MA*
Client: *USACE NAE*

Project #: *G606422*
Vessel: *S/V Gale Force*
Chief Scientist: MWalsh

Station ID:	GG33	Time On Station:	1229	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-GG33-00-14	Northing (NAD 83):	270463.5	Water Depth (*A*):	5.4
Logged by:	MW	Easting (NAD 83):	815149.65	Length of push core assembly (*B*):	8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.24	Water surface to top of handle (*C*):	1.0
Date:	11/26/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	1.4
		Time of Collection:	1252	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1336	Water surface from surveyed elevation (*F*):	-0.6

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-0.1
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-7.1
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.3
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.5
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	1.4			Silt	Black	loose	fine			
	0.8			Clay	Olive gray	firm	fine			Some streaking
	0.0									S-07D-GG33-00-00 Sampled top .6' for PCB + TOC/GS analysis ①

File ID of digital photograph(s):

Comments:

① added MK AEM 12/18/07

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M-Walsh

Station ID:	DD24	Time On Station:	1241	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-DD24-~~00~~-23	Northing (NAD 83):	2704849.9	Water Depth (*A*):	~~5.7~~ 5.6
Logged by:	MW	Easting (NAD 83):	815047.0	Length of push core assembly (*B*):	~~8.0~~ 8.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.45	Water surface to top of handle (*C*):	~~0.1~~ 0.8
Date:	11/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.3
		Time of Collection:	1259	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1302	Water surface from surveyed elevation (*F*):	~~-0.1~~ +0.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.0
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-6.9
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-5.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-5.4
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.3		Silt	Brown Black	Very loose	fine			Flaky Brown silt layer
2.1		Silt	Black	loose	fine			
1.1								some streaking
0.0		Clay (wood shells)	dark gray	firm	fine to (med)			

File ID of digital photograph(s):

Comments:
1st Attempt N/G

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	DD22	Time On Station:	1309	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-DD22-00-2.0	Northing (NAD 83):	270489.9	Water Depth (*A*):	6.1
Logged by:	MW	Easting (NAD 83):	815075.2	Length of push core assembly (*B*):	9.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	4.65	Water surface to top of handle (*C*):	0.6
Date:	11/20/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.0
		Time of Collection:	1313	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1316	Water surface from surveyed elevation (*F*):	+0.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	0.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	~~-8.0~~ -7.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	~~-6.9~~ -7.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	~~-5.9~~ -5.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	~~-5.9~~ -5.6
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.0		Silt	Black	loose	fine			
1.7		Silt	Brown	loose	fine			notreable layering of silt
1.5		Silt	Black	loose	fine			
0.9								Streaking At Trans.
0.4		Clay	olive gray	firm	fine			Thin veneer of silt at 0.4
0.0								
								S-07D-DD22-00-11
								Samples for PCB+TOC/GS
								+ QA splits taken from
								top 1.1' on 12/11/07
								JMF/MW

File ID of digital photograph(s):

Comments:

- Live small quahog/clams on surface of core

(1) WO 8.S. 11/24/07

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	DD40	Time On Station:	0956	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-DD40-06-27	Northing (NAD 83):	270445.15	Water Depth (*A*):	~~10.5~~ 11.61
Logged by:	MW	Easting (NAD 83):	815075.4	Length of push core assembly (*B*):	16.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.33	Water surface to top of handle (*C*):	2.0
Date:	11/28/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.7
		Time of Collection:	1031	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1033	Water surface from surveyed elevation (*F*):	2.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-11.6
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-10.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-8.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-8.7
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.7		Silt/Flock	Brown	very loose	fine			
2.6								Ulva (sea lettuce) on surface
		Silt	Black	loose	fine			
1.1								
		Clay	Olive gray	firm	fine			some ulva on very Bottom
0.0								

File ID of digital photograph(s):

Comments:
1st Attempt N/G
2nd Attempt N/G

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	DD36	Time On Station:	1043	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-DD36-00-20	Northing (NAD 83):	2704539.2	Water Depth (*A*):	10.0
Logged by:	MW	Easting (NAD 83):	815084.3	Length of push core assembly (*B*):	13.3
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.87	Water surface to top of handle (*C*):	1.0
Date:	11/28/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.0
		Time of Collection:	1050	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1058	Water surface from surveyed elevation (*F*):	2.4

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.4
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-9.9
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-9.1
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-7.9
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-7.6
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.0			Silt/Fluff	Brown/Blk	loose	fine			S-07D-DD36-~~0012~~ 00-10*
1.6			Silt	Black	loose	fine			
0.8			Clay	olive gray	firm	fine			Samples taken from TOP 1.2' for PCB + TOC/GS analysis on 12/11/07 JMF
0.0									* Bottom 0.2' was not sampled because it was clay

File ID of digital photograph(s):

Comments:

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	DD36 DUP	Time On Station:	1043	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-DD36-00-21-REP	Northing (NAD 83):	270453.9.2	Water Depth (*A*):	9.8
Logged by:	MW	Easting (NAD 83):	815084.3	Length of push core assembly (*B*):	13.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.87	Water surface to top of handle (*C*):	1.0
Date:	11/28/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.1
		Time of Collection:	1103	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1114	Water surface from surveyed elevation (*F*):	2.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	2.2
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-9.8
(Z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-9.0
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-7.7
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-7.6
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.1		S.lt/Fbulk	Brown/Blk	loose	fine			
1.6		Silt	Black	loose	fine			S-07D-DD36-~~00-13~~ 00-11* -REP
0.8		Clay	olive gray	firm	loose			
0.0								TOP 1.3' Sampled for PCB + TOC/GS analysis on 12/12/07 JMP/MW
								* Bottom 0.2' was clay + was not sampled

File ID of digital photograph(s):

Comments:

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	EE41	Time On Station:	1128	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-EE41-00-23	Northing (NAD 83):	2704424.2	Water Depth (*A*):	9.0
Logged by:	MW	Easting (NAD 83):	815100.6	Length of push core assembly (*B*):	13.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.41	Water surface to top of handle (*C*):	1.5
Date:	11/28/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.3
		Time of Collection:	1135	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1139	Water surface from surveyed elevation (*F*):	+1.8

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	~~-9.7~~ 0 1.8
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-9.7
(Z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-8.8
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-7.4
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-7.2
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.3			Some Floch Silt	Black	loose	fine			S-07D-EE41-00-14
0.9			Clay	Black gray	firm	fine			Samples taken from TOP 1.4' for PCB + TOC/GS on 12/11/07 JMF/MW
0.0									Homologues!

File ID of digital photograph(s):

Comments:

① w/ JS. 11/29/07

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:** M. Walsh

Station ID:	DD31	Time On Station:	1146	**All measurements are ±0.1 feet**	
Core Sample ID:	S-070-DD31-00-20	Northing (NAD 83):	270475.3	Water Depth (*A*):	7.8
Logged by:	MW	Easting (NAD 83):	815074.4	Length of push core assembly (*B*):	11.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.27	Water surface to top of handle (*C*):	1.0
Date:	11/28/07	Predicted Tide (ft):	NA	Length of core (from bottom) (*D*):	2.0
		Time of Collection:	1152	Surveyed elevation (NVGD 29) (*E*):	NA
		Time Depart Station:	1158	Water surface from surveyed elevation (*F*):	+1.5

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	1.5
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.5
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.5
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-6.5
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-6.3
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	—

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	2.0			Silt	Black	loose	fine			S-070-DD31-00-10
	1.0									some streaking
				Clay	olive gray	firm	fine			
	0.0									Samples taken from Top 1.0' for PCB + TOC/GS analysis on 12/11/07 JMF/MW

File ID of digital photograph(s):

Comments:

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	AA22	Time On Station:	1339	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-AA22-00-50	Northing (NAD 83):	2704887.3	Water Depth (*A*):	1.8
Logged by:	MW	Easting (NAD 83):	815000.6	Length of push core assembly (*B*):	4.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.5	Water surface to top of handle (*C*):	0.6
Date:	12/11/07	Predicted Tide (ft):	~1.2	Length of core (from bottom) (*D*):	5.0
		Time of Collection:	1350	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1444	Water surface from surveyed elevation (*F*):	-1.2

Calculations for Determination of Z* Elevation

(G)	Elevation of Water Surface (NVGD): *E - F*	-1.2 ①
(H)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.6 ①
(z)*	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.3 ①
(I)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.6 ①
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3 ①
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	✓ ①

	Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
	5.0			Silt	Black	loose ↓ firm	fine			S-07D-AA22-10-20 Sampled 1-2' interval for PCB + TOC analysis on 12/12/07 JMF/MW
	1.3			Clay	Olive	firm	fine			VOA samples sampled on 12/11/07 @ time of core collected
	0.0									S-07D-AA22-02-03 MS/MSD also collected

File ID of digital photograph(s):

Comments:

Sheen on the outside of the core
Acrid odor
① AEM 12/13/07

Battelle The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *R/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	AA22 DUP	Time On Station:	1339	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-AA22-DUP-00-4.9	Northing (NAD 83):	2704837.3	Water Depth (*A*):	9.1 ~~2.0~~
Logged by:	JMF	Easting (NAD 83):	815000.6	Length of push core assembly (*B*):	8.0 ~~8.0~~
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.5	Water surface to top of handle (*C*):	0.8 ~~1.0~~
Date:	12/11/07	Predicted Tide (ft):	—	Length of core (from bottom) (*D*):	4.9
		Time of Collection:	1412	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1444	Water surface from surveyed elevation (*F*):	-1.2

Calculations for Determination of Z* Elevation

(*G*)	Elevation of Water Surface (NVGD): *E - F*	-1.2 ①
(*H*)	Elevation of the bottom of the core (NVGD): *G - (B - C)*	-8.4 ①
(*z**)	Elevation of visual transition (NVGD): *H + (distance to visual transition)*	-7.4 ①
(*I*)	Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*	-3.5 ①
(I_2)	Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*	-3.3 ①
	(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)	✓ ①

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
4.9									S-07D-AA22-10-20-RE
					loose				Sampled 1-2' intervals for PCB + TOC/GS analysis on 12/12/07 JMF/[illegible]
			silt	Black	↓	fine			
					firm				VOA Samples taken from 0.2-0.3 section of core
1.0			clay	olive	firm	fine			S-07D-AA22-02-03-RE
0.0									

File ID of digital photograph(s):

Comments:
Sheen on the outside of the core
acrid odor
① AEM 12/13/07

OU3 Pilot Cap Samples

This page intentionally left blank

Station Log for Benthic Sediment Grab Samples

Project Name: New Bedford Harbor Environmental Monitoring — *Location: New Bedford, MA*
Project #: G606422 — *Chief Scientist: Theresa Himmer*
Client: USACE NAE — *Vessel: R/V Gale Force*

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 12.9
Station ID: 0405	Time on Station: 0911
Date: 9/18/07	Time Depart Station: 0928
Recorded by: MW	

	Attempt #1	
	Northing: ~~2686188.27~~ 2686188.69	Grab Size: 0.1-m^2
	Easting: ~~815179.44~~ 818200.33	Analyses : PCBs
	Collection Time: ~~0918~~ 0924	
	Sample ID: S-07B-0405-00-03	

Sample Description: Fine Sand with Dark Silt and med brown sand below

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description: 1st Attempt N/G

Additional Comments: - Completely Flat Bottom noted on Echosounder

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 13.2
Station ID: 0406	Time on Station: 0935
Date: 9/18/07	Time Depart Station: 0950
Recorded by: MW	

	1.57 Attempt #1	
	Northing: 2686190.2	Grab Size: 0.1-m^2
	Easting: 817951.0	Analyses : PCBs
	Collection Time: ~~0941~~ 0945	
	Sample ID: S-07B-0406-00-03	

Sample Description: 1st Attempt N/G
- gray Brown Sand on surface with Black Silt and sand Below.
- Completely Flat Bottom noted on Echosounder

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Station Log for Benthic Sediment Grab Samples

Project Name: New Bedford Harbor Environmental Monitoring — *Location: New Bedford, MA*
Project #: G606422 — *Chief Scientist: Theresa Himmer*
Client: USACE NAE — *Vessel: R/V Gale Force*

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): ~~14.0~~ 13.5
Station ID: OU 02	Time on Station: ~~10:02~~ 10:14
Date: 9/18/07	Time Depart Station: 10:20
Recorded by: TH	

	Attempt #1	
	Northing: 2685862.09	Grab Size: 0.1-m^2
	Easting: 818148.65	Analyses : PCBs
	Collection Time: 10:15	
	Sample ID: S-07B-OU02-~~00~~-03	

Sample Description: med sand - gray brown on top, dk gray to black ~~blow~~ below ½ cm

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments: Flat bottom ~~- med s~~ - could not see any ridges on depth finder.

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): ~~4.5~~ 10.0'
Station ID: OU 01	Time on Station: 13:03
Date: 9/18/07	Time Depart Station: 13:18
Recorded by: TH	

	Attempt #1	
	Northing: 2685668.45	Grab Size: 0.1-m^2
	Easting: 817987.27	Analyses : PCBs
	Collection Time: ~~13:01~~ N/G ~~13:06~~ ← 13:10	
	Sample ID: S-07B-OU01-~~00~~-03	

Sample Description: Ridge location - att's 1-2 - No good - very rocky bottom med, well sorted sand

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Station Log for Benthic Sediment Grab Samples

Project Name: New Bedford Harbor Environmental Monitoring | *Location: New Bedford, MA*
Project #: G606422 | *Chief Scientist: Theresa Himmer*
Client: USACE NAE | *Vessel: R/V Gale Force*

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 12.0'	
Station ID: OU97	Time on Station: 13:34	
Date: 9/18/07	Time Depart Station: 13:40	
Recorded by: TH		
	Attempt #1	
	Northing: 2686019.63	Grab Size: 0.1-m^2
	Easting: 817780.93	Analyses : PCBs
	Collection Time: 13:36	
	Sample ID: S-078-OU07-00-03	

Sample Description: VALLEY LOCATION - well sorted - med sand - gray brown ontop ; gray black below ~1/2 cm

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 12.1'	
Station ID: OU08	Time on Station: 1400	
Date: 9/18/07	Time Depart Station: 14:10	
Recorded by: TH		
	Attempt #1	
	Northing: 2686237.32	Grab Size: 0.1-m^2
	Easting: 817748.31	Analyses : PCBs
	Collection Time: 14:01	
	Sample ID: S-078-OU08-00-03	

Sample Description: VALLEY LOCATION - f-med well sorted sand gray brown on top dk gray-black below ~1/2 cm

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Station Log for Benthic Sediment Grab Samples

Project Name: New Bedford Harbor Environmental Monitoring — *Location: New Bedford, MA*
Project #: G606422 — *Chief Scientist: Theresa Himmer*
Client: USACE NAE — *Vessel: R/V Gale Force*

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 14.8
Station ID: OU 04	Time on Station: ~~11:30~~ 11:47
Date: ~~10/18~~ 9/18/07	Time Depart Station: 11:55
Recorded by: TMH	

	Attempt #1	
	Northing: ~~2686000.43~~ 2685001.73	Grab Size: 0.1-m^2
	Easting: ~~818044.04~~ ~~818041.31~~	Analyses : PCBs
	Collection Time: 11:49 818042.00	?
	Sample ID: S-07B-OU04-00-03	

Sample Description:

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments: Could not see ~~and~~ any ridges on depth finder.

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 12.5'
Station ID: OU03	Time on Station: 12:30
Date: 9/18/07	Time Depart Station: 12:39
Recorded by: TH	

	Attempt #1	
	Northing: 2685849.97	Grab Size: 0.1-m^2
	Easting: 817883.32	Analyses : PCBs
	Collection Time: 12:32	
	Sample ID: S-07B-OU03-00-03	

Sample Description:

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Station Log for Benthic Sediment Grab Samples

Project Name: New Bedford Harbor Environmental Monitoring
Project #: G606422
Client: USACE NAE

Location: New Bedford, MA
Chief Scientist: Theresa Himmer
Vessel: R/V Gale Force

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 10.5
Station ID: OU11	Time on Station: ~~2~~ 14:20
Date: 9/18/07	Time Depart Station:
Recorded by:	

	Attempt #1	
	Northing: 2686372.41	Grab Size: 0.1-m^2
	Easting: 817641.99	Analyses : PCBs
	Collection Time: 14:23	
	Sample ID: S-07B-OU11-00-03	

Sample Description: Ridge location - med sand gray brown on top. Dk gray - Black below ~1/2cm

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 11.5
Station ID: OU09	Time on Station: 14:38
Date: 9/18/07	Time Depart Station: 14:47
Recorded by: TH	

	Attempt #1	
	Northing: 2686123.70	Grab Size: 0.1-m^2
	Easting: 817487.77	Analyses : PCBs
	Collection Time: 14:40	
	Sample ID: S-07B-OU09 ~~00~~ -00-03	

Sample Description: VALLEY LOCATION - med sand brown gray on top gray black below ~1/2cm

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Station Log for Benthic Sediment Grab Samples

Project Name: New Bedford Harbor Environmental Monitoring — *Location: New Bedford, MA*
Project #: G606422 — *Chief Scientist: Theresa Himmer*
Client: USACE NAE — *Vessel: R/V Gale Force*

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 11.9'
Station ID: 0410	Time on Station: 14:55
Date: 9/18/07	Time Depart Station: 1511
Recorded by: TH	

	Attempt #1	
	Northing: 2686245.63	Grab Size: 0.1-m^2
	Easting: 817480.20	Analyses : PCBs
	Collection Time: 14:58 - NG 2nd = 15:01 = NG 3rd = 15:05 - NG	
	Sample ID: S-07B-OU10-00-03	4th = 1504 - good

Sample Description: VALLEY LOCATION - 1st ATT = NG - 10's of Seaweed

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 9.0
Station ID: OU13	Time on Station: 0830
Date: 9/19/07	Time Depart Station: 0855
Recorded by: MW/JH	

	Attempt #1	
	Northing: 2686377.53	Grab Size: 0.1-m^2
	Easting: 817309.45	Analyses : PCBs
	Collection Time: 0836	
	Sample ID: S-07B-OU13-00-03	

Sample Description: Valley Location
Fine to med Sand olive Brown over Black /

	Attempt #2	
	Latitude: 2686397.53	Grab Size: 0.1-m^2
	Longitude: 817309.45	Analyses : PCBs
	Time: 0848	
	Sample ID: S-07B-OU13-00-03-DUP	

Sample Description:

Additional Comments:

Station Log for Benthic Sediment Grab Samples

Project Name: New Bedford Harbor Environmental Monitoring | *Location: New Bedford, MA*
Project #: G606422 | *Chief Scientist: Theresa Himmer*
Client: USACE NAE | *Vessel: R/V Gale Force*

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 11.1	
Station ID: OU12	Time on Station: 0900	
Date: 9/19/07	Time Depart Station: 0921	
Recorded by: MW/JH		
	Attempt #1	
	Northing: 2686487.64	Grab Size: 0.1-m^2
	Easting: 817490.28	Analyses : PCBs
	Collection Time: ~~0905~~ ~~0908~~ 0914	
	Sample ID: S-07B-OU12-00-03	

Sample Description: 1st attempt = NG Valley Location
2nd attempt = NG
olive brown over black w/ seaweed & limpet shells / fine sand, silt

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 10.0	
Station ID: OU14	Time on Station: 0930	
Date: 9/19/07	Time Depart Station: 0939	
Recorded by: MW/JH		
	Attempt #1	
	Northing: 2686643.69	Grab Size: 0.1-m^2
	Easting: 817323.38	Analyses : PCBs
	Collection Time: 0932	
	Sample ID: S-07B-OU14-00-03	

Sample Description: Valley location
dense fine sand olive brown over gray w/ seaweed

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Station Log for Benthic Sediment Grab Samples

Project Name: New Bedford Harbor Environmental Monitoring — *Location: New Bedford, MA*
Project #: G606422 — *Chief Scientist: Theresa Himmer*
Client: USACE NAE — *Vessel: R/V Gale Force*

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 8.7
Station ID: OU15	Time on Station: 0950
Date: 9/19/07	Time Depart Station: 1000
Recorded by: MW/JH	

	Attempt #1	
	Northing: 2686715.27	Grab Size: 0.1-m^2
	Easting: 817494.06	Analyses : PCBs
	Collection Time: 0952	
	Sample ID: S-07B-OU15-00-03	

Sample Description: Ridge location
olive brown over dark gray / clay content in fine sand

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 10.8
Station ID: OU16	Time on Station: 10:12
Date: 9/19/07	Time Depart Station: 1019
Recorded by: MW/JH	

	Attempt #1	
	Northing: 2686837.43	Grab Size: 0.1-m^2
	Easting: 817326.43	Analyses : PCBs
	Collection Time: 1014	
	Sample ID: S-07B-OU16-00-03	

Sample Description: Valley location
olive brown over black fine sand w/ silt / seaweed

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Station Log for Benthic Sediment Grab Samples

Project Name: New Bedford Harbor Environmental Monitoring
Project #: G606422
Client: USACE NAE

Location: New Bedford, MA
Chief Scientist: Theresa Himmer
Vessel: R/V Gale Force

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet): 7.1
Station ID: 0417	Time on Station: 1029
Date: 9/19/07	Time Depart Station: 1045
Recorded by: MW/JH	

	Attempt #1	
	Northing: 2686804.30	Grab Size: 0.1-m^2
	Easting: 817189.50	Analyses : PCBs
	Collection Time: 1032	
	Sample ID: S-07B-OU17-00-03	

Sample Description: Ridge Location
medium sand olive gray / some pebbles & shells

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

Field Measurements

Survey ID: 2007 OU-3	Station Depth (feet):
Station ID:	Time on Station:
Date:	Time Depart Station:
Recorded by:	

	Attempt #1	
	Northing:	Grab Size: 0.1-m^2
	Easting:	Analyses : PCBs
	Collection Time:	
	Sample ID:	

Sample Description:

	Attempt #2	
	Latitude:	Grab Size: 0.1-m^2
	Longitude:	Analyses : PCBs
	Time:	
	Sample ID:	

Sample Description:

Additional Comments:

This page intentionally left blank

Boat House Samples

This page intentionally left blank

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* 1121 **Chief Scientist:**

Station ID:	BH2	Time On Station:	~~1052~~	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0BH2-00-34	Northing (NAD 83):	2701172.12	Water Depth (*A*):	~~7.0~~ 7.1
Logged by:	MW	Easting (NAD 83):	815093.66	Length of push core assembly (*B*):	12.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.06	Water surface to top of handle (*C*):	1.1
Date:	11/29/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	3.4
		Time of Collection:	1134	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1137	Water surface from surveyed elevation (*F*):	NA

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F* _____

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)* _____

(Z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)* _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D* _____

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A* _____

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample) _____

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.4			Silt	Black	loose	fine		①	S-07D-0BH2-00-10
									S07D-0BH2-10-20
1.0			Clay	Black/gray	med to firm	fine			S-07D-0BH2-20-30
0.0									

File ID of digital photograph(s):

Comments:
Sheen on outside of core barrell

① Sample IDs for PCB + Archive
00 is H_2O/Sed interface
Subsampled 12/5/07 JMF

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	BH 3	Time On Station:	1154	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-ØBH3-00-35	Northing (NAD 83):	2700971.5	Water Depth (*A*):	6.5
Logged by:	MW	Easting (NAD 83):	815039.1	Length of push core assembly (*B*):	12.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.23	Water surface to top of handle (*C*):	2.0
Date:	11/29/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	3.5
		Time of Collection:	1201	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	~~1206~~ 1216	Water surface from surveyed elevation (*F*):	N/A

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F*

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)*

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)*

(l) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*

(l_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*

(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.5								
3.2		Silt/Mark	~~Black~~/Brown	loose	fine			S-ØØ7D-ØBH3-ØØ-10
		Silt	Black	loose	fine			S-Ø7D-ØBH3-1Ø-2Ø ①
1.4								S-Ø7D-ØBH3-2Ø-3Ø
		Clay	Olive gray	firm	fine			
0.0		*						* lots of scallop shell hash

File ID of digital photograph(s):

Comments: ① Sample ID's for PCB+ Archival Samples
00 is the water sediment interface for Samples
Subsampled 12/5/07 (previously all cores were frozen)

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	BH3 DUP	Time On Station:	1154	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0BH3-00-39-REP	Northing (NAD 83):	2700971.5	Water Depth (*A*):	6.3
Logged by:	MW	Easting (NAD 83):	815038.1	Length of push core assembly (*B*):	12.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.23	Water surface to top of handle (*C*):	1.8
Date:	11/29/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	3.9
		Time of Collection:	1212	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1216	Water surface from surveyed elevation (*F*):	N/A

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F*

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)*

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)*

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.9			Silt/Muck	Blk/Brown	loose	fine			
3.8			Silt	Black	loose	fine		①	S-07D-0BH3-00-10-REP S-07D-0BH3-10-20-REP S-07D-0BH3-20-30-REP
1.7			Clay	Olive gray	Firm	fine			
0.0									

File ID of digital photograph(s):

Comments:

CORE ID = 101-1404 > Photo ID's
CORE = 101-1405

① Sample ID's for PCB+ Archive; 00 is the water/sediment interface

Page ____ of ____

Subsampled on 12/5/07 (previously frozen)

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	BH7	Time On Station:	1219	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0BH7-00-30	Northing (NAD 83):	270078.6	Water Depth (*A*):	6.8
Logged by:	MW	Easting (NAD 83):	815098.6	Length of push core assembly (*B*):	12.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.31	Water surface to top of handle (*C*):	2.0
Date:	11/29/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	3.0
		Time of Collection:	1229	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1233	Water surface from surveyed elevation (*F*):	N/A

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F*

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)*

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)*

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)	Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.0		Silt/Fbrk	Blk/Brown	loose	fine			
2.8								S-07D-0BH7-00-10
		Silt	Black	loose	fine			
1.3							①	S-07D-0BH7-10-20
		Clay	olive gray	firm	fine			S-07D-0BH7-20-30
0.0								

File ID of digital photograph(s):

Comments:

① Sample IDs are for PCB + Archive
00 is H_2O/Sed Interface
Subsampled on 12/5/07

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	BH 10	Time On Station:	1246	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-BH10-00-28	Northing (NAD 83):	2700548.22	Water Depth (*A*):	6.5 6.1
Logged by:	MW	Easting (NAD 83):	815091.81	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.12	Water surface to top of handle (*C*):	~~0.4~~ 1.0
Date:	12/29/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	2.8
		Time of Collection:	1259	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1305	Water surface from surveyed elevation (*F*):	N/A

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F*

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)*

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)*

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.8			Silt	Black	loose	fine			S-07D-BH10-00-10
2.1			Silt and Clay	Black/gray	firm	fine		①	TREND Silt to Clay; S-07D-BH10-10-2
1.0			Clay	olive gray	firm	fine			S-07D-BH10-20-28
0.0									

File ID of digital photograph(s):

Comments:
1st Attempt N/G Strong Sulfide odor

① Sample IDs for PCB + Archive Samples
00 is the H_2O/Sed interface
Subsampled 12/15/07 JMF

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	BH6	Time On Station:	1319	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-ØBH6-00-30	Northing (NAD 83):	2700747.1	Water Depth (*A*):	4.6
Logged by:	MW	Easting (NAD 83):	814987.8	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.98	Water surface to top of handle (*C*):	2.2
Date:	11/29/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	3.0
		Time of Collection:	1327	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1332	Water surface from surveyed elevation (*F*):	N/A

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F*

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)*

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)*

(l) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*

(l_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*

(Note if $l \neq l_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.0			Silt	Black	loose	fine			S-ØØ7D-ØBH6-ØØ-1Ø
									S-ØØ7D-ØBH6-1Ø-2Ø
1.0								①	
			Clay some silt	Black gray	med firm	fine			S-ØØ7D-ØBH6-2Ø-3Ø (QA Split taken here)
0.0									

File ID of digital photograph(s):

Comments:
Heavy sheen and chemical odor while rinsing core barrel

① Sample ID's for PCB + Archive Samples; 00 is the H_2O/Sed interface
subsampled on 12/5/07 JMF

Battelle *The Business of Innovation*

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	BH 1	Time On Station:	1346	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-BH1-00-24	Northing (NAD 83):	2701167.3	Water Depth (*A*):	3.5
Logged by:	MW	Easting (NAD 83):	814982.4	Length of push core assembly (*B*):	7.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.28	Water surface to top of handle (*C*):	0.8
Date:	11/29/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	2.4
		Time of Collection:	1410	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1420	Water surface from surveyed elevation (*F*):	N/A

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F*

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)*

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)*

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
2.0			Silt & sand	Black	loose	fine med			S-07D-0BH1-00-10 ②
1.9			Silty Sand	Black gray	loose	fine med			S-07D-0BH1-10-20 ①
1.1			Sand	Black gray	loose	med to course			S-07D-0BH1-20-25
0.0									

File ID of digital photograph(s):

Comments:
1st Attempt N/G - Site directly east of CSO (200')
Silty Sand over course sand → lost .2 out of Bottom
- moved location 4' to North

Page ____ of ____

① Subsampled 12/5/07 for PCB analysis + Archived
00 - in the water sediment interface in Sample ID.

② QA Split taken here (00-10)

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	BH8	Time On Station:	0915	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-ØBH8-00-30	Northing (NAD 83):	270545.18	Water Depth (*A*):	
Logged by:	MW	Easting (NAD 83):	3,4927.12	Length of push core assembly (*B*):	N/A
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.36	Water surface to top of handle (*C*):	
Date:	11/30/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	
		Time of Collection:	0920	Surveyed elevation (NVGD 29) (*E*):	3.0
		Time Depart Station:	0930	Water surface from surveyed elevation (*F*):	

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F*

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)*

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)*

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (I.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.0			Sand with silt	gray Black	loose	fine to coarse			S-07D-ØBH8-00-10
2.8			Sand	light Brown	loose	fine to coarse			S-07D-ØBH8-10-20
1.6			Clay Sand ~~silt~~ mix	Olive gray	firm	fine to med		①	S07D-ØBH8-20-30
0.0									* PCB Homologue

File ID of digital photograph(s):

Comments:
Sample taken as soil sample
BH8 site moved north 3.5' and East 5.8'
Photo # 101-1417, 1418, 1419 (for site Ref)

① Sample ID's for PCB & Archive
00 is the H2O/Sed interface
subsampled 12/5/07 JMF

* PCB Homologue @ all depths

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	BH4	Time On Station:	0945	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0BH4-00-30	Northing (NAD 83):	2706355.9	Water Depth (*A*):	N/A
Logged by:	MW	Easting (NAD 83):	814931.5	Length of push core assembly (*B*):	N/A
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.62	Water surface to top of handle (*C*):	N/A
Date:	11/30/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	~~00-20~~ 3.0
		Time of Collection:	1003	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1008	Water surface from surveyed elevation (*F*):	N/A

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F* _____

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)* _____

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)* _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D* _____

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A* _____

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample) _____

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.0			Sand	~~Brown~~ Gray	loose	fine to coarse			S-07D-0BH4-00-10
2.6			silt sand gravel mix	Red	loose	fine to coarse		①	Cobble throughout S-07D-0BH4-10-20
1.0			Clay with sand and silt	Black	loose to firm	fine to med			S-07D-0BH4-20-30
0.0									

File ID of digital photograph(s):

Comments:
Sample taken as soil sample with auger 2.0 - 3.0
1.0 - 2.0
0.0 - 1.0

① Sample ID's for PCB + Archive; 00 is H_2O/Sed interface; subsampled 12/5/07 JMF

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	BH5	Time On Station:	1043	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-0BH5-00-38	Northing (NAD 83):	2700355.2	Water Depth (*A*):	3.9
Logged by:	MW	Easting (NAD 83):	815012.6	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	3.03	Water surface to top of handle (*C*):	2.1
Date:	11/30/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	3.8
		Time of Collection:	1052	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1058	Water surface from surveyed elevation (*F*):	n/a

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F* _____

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)* _____

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)* _____

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D* _____

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A* _____

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample) _____

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.8			fluff/silt	Brown/Blk	loose	fine			S-07D-0BH5-00-10
3.5			Silt	Black	loose	fine			S-07D-0BH5-10-20
1.8									
			Clay	olive gray	firm	fine			S07D 0BH5-20-30
0.0									

File ID of digital photograph(s):

Comments:
Sample ID: 00 - is the water sediment interface; subsampled 12/5/07
PCB + Archival Splits taken for each depth

Battelle
The Business of Innovation

Project Name: *New Bedford Harbor Environmental Monitoring* **Project #:** *G606422*
Location: *New Bedford, MA* **Vessel:** *S/V Gale Force*
Client: *USACE NAE* **Chief Scientist:**

Station ID:	BH9	Time On Station:	1165	**All measurements are ±0.1 feet**	
Core Sample ID:	S-07D-OBH9-00-33	Northing (NAD 83):	2700554.8	Water Depth (*A*):	~~3.5~~ 4.0
Logged by:	MW	Easting (NAD 83):	815015.25	Length of push core assembly (*B*):	10.0
Collection Mechanism:	*Push-Core*	GPS Accuracy:	2.32	Water surface to top of handle (*C*):	2.7
Date:	11/30/07	Predicted Tide (ft):		Length of core (from bottom) (*D*):	3.3
		Time of Collection:	1128	Surveyed elevation (NVGD 29) (*E*):	
		Time Depart Station:	1134	Water surface from surveyed elevation (*F*):	N/A

Calculations for Determination of Z* Elevation

(G) Elevation of Water Surface (NVGD): *E - F*

(H) Elevation of the bottom of the core (NVGD): *G - (B - C)*

(z)* Elevation of visual transition (NVGD): *H + (distance to visual transition)*

(I) Elevation of the sediment-water interface as measured from bottom of core (NVGD): *H + D*

(I_2) Elevation of the sediment-water interface as measured from water depth (NVGD): *G - A*

(Note if $I \neq I_2$ within ± 1.0 feet, discard and resample)

Elevation (NVGD) (i.e. Bottom = *H*)		Lithology - Include USCS code	Type	Color	Consistency	Maximum particle size	Odor	Sample IDs	Comments
3.3			Silt	Black	loose	fine			sheen on outside of core
1.9			Clay	gray	firm	fine		①	S-07D-OBH9-00/10 S-07D-OBH9-10-20 S-07D-OBH9-20-30
0.5 0.0			Clay	olive gray	very firm	fine			

File ID of digital photograph(s):

Comments:
1st Attempt not good - Sheen
2nd Attempt N/G - Heavy sheen
18' East and 8.6' North of original BH9 coordinates
① subsampled 12/5/07; 00 is the water sediment interface

PCB + Archival Samples taken

This page intentionally left blank

Appendix B

PCB Analytical Data

This page intentionally left blank

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	N14-F07			I1			I4-F07		
Collection Date	11/5/07			11/6/07			11/6/07		
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-0N14-00-05			S-07D-00I1-00-05			S-07D-00I4-00-07		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	1.933	MG/KG_DRYWT	D	5.18	MG/KG_DRYWT	D	3.361	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	4.383	MG/KG_DRYWT	D	11.64	MG/KG_DRYWT	D	7.812	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	4.519	MG/KG_DRYWT	D	11.82	MG/KG_DRYWT	D	8.709	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	2.752	MG/KG_DRYWT	D	8.044	MG/KG_DRYWT	D	5.621	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	11.26	MG/KG_DRYWT	D	27.5	MG/KG_DRYWT	D	17.9	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.214	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU
2,2',4,5,5'-Pentacb (PCB 101)	1.694	MG/KG_DRYWT	D	6.665	MG/KG_DRYWT	D	4.481	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.214	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	0.216	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	3.01	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.214	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	0.216	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.863	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	1.852	MG/KG_DRYWT	D	0.222	MG/KG_DRYWT	DU	4.223	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.214	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.214	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.214	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.214	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.214	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.214	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU	0.222	MG/KG_DRYWT	DU
Total MonoCB									
Total DiCB									
Total TriCB									
Total TetraCB									
Total PentaCB									
Total HexaCB									
Total HeptaCB									
Total OctaCB									
Total NonaCB									
DecaCB									
Total PCB Congeners (sum CONG x 2.6)	74	MG/KG_DRYWT		180	MG/KG_DRYWT		150	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)									

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	K2			N4-F07			O1		
Collection Date			11/6/07			11/6/07			11/6/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-00K2-00-08			S-07D-00N4-00-06			S-07D-00O1-00-06		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	2.008	MG/KG_DRYWT	D	1.568	MG/KG_DRYWT	D	30.56	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	5.322	MG/KG_DRYWT	D	4.258	MG/KG_DRYWT	D	52.69	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	5.686	MG/KG_DRYWT	D	4.32	MG/KG_DRYWT	D	36.86	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	3.716	MG/KG_DRYWT	D	2.612	MG/KG_DRYWT	D	18.68	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	12.83	MG/KG_DRYWT	D	10.98	MG/KG_DRYWT	D	90.95	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.217	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.125	MG/KG_DRYWT	DU
2,2',4,5,5'-Pentacb (PCB 101)	3.371	MG/KG_DRYWT	D	1.83	MG/KG_DRYWT	D	8.337	MG/KG_DRYWT	Dp
2,3,3',4,4'-Pentacb (PCB 105)	0.217	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.125	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	2.425	MG/KG_DRYWT	D	1.307	MG/KG_DRYWT	D	3.169	MG/KG_DRYWT	Dp
2,2',3,3',4,4'-Hexacb (PCB 128)	0.217	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.125	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	1.581	MG/KG_DRYWT	D	0.226	MG/KG_DRYWT	DU	5.076	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	3.023	MG/KG_DRYWT	D	2.043	MG/KG_DRYWT	D	8.469	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.217	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.125	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.217	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.125	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.217	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.125	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.217	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.125	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.217	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.125	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.217	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.125	MG/KG_DRYWT	DU
Total MonoCB									
Total DiCB									
Total TriCB									
Total TetraCB									
Total PentaCB									
Total HexaCB									
Total HeptaCB									
Total OctaCB									
Total NonaCB									
DecaCB									
Total PCB Congeners (sum CONG x 2.6)	100	MG/KG_DRYWT		75	MG/KG_DRYWT		660	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)									

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	Q9			J14			K5		
Collection Date			11/6/07			11/6/07			11/8/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-00Q9-00-05			S-07D-0J14-00-06			S-07D-00K5-00-06		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	2.055	MG/KG_DRYWT	D	22.38	MG/KG_DRYWT	D	5.151	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	5.291	MG/KG_DRYWT	D	42.16	MG/KG_DRYWT	D	13.38	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	6.351	MG/KG_DRYWT	D	39.64	MG/KG_DRYWT	D	16.12	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	3.481	MG/KG_DRYWT	D	13.73	MG/KG_DRYWT	D	11.15	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	12.73	MG/KG_DRYWT	D	46.98	MG/KG_DRYWT	D	32.39	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.213	MG/KG_DRYWT	DU	0.238	MG/KG_DRYWT	DJ	0.423	MG/KG_DRYWT	DJ
2,2',4,5,5'-Pentacb (PCB 101)	2.701	MG/KG_DRYWT	D	4.578	MG/KG_DRYWT	D	5.993	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.213	MG/KG_DRYWT	DU	0.524	MG/KG_DRYWT	DU	0.518	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	1.817	MG/KG_DRYWT	D	2.778	MG/KG_DRYWT	Dp	3.974	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.213	MG/KG_DRYWT	DU	0.524	MG/KG_DRYWT	DU	0.518	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	1.332	MG/KG_DRYWT	D	1.981	MG/KG_DRYWT	D	2.609	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	2.941	MG/KG_DRYWT	D	5.384	MG/KG_DRYWT	D	6.114	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.213	MG/KG_DRYWT	DU	0.524	MG/KG_DRYWT	DU	0.518	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.213	MG/KG_DRYWT	DU	0.524	MG/KG_DRYWT	DU	0.518	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.213	MG/KG_DRYWT	DU	0.524	MG/KG_DRYWT	DU	0.518	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.213	MG/KG_DRYWT	DU	0.524	MG/KG_DRYWT	DU	0.518	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.213	MG/KG_DRYWT	DU	0.524	MG/KG_DRYWT	DU	0.518	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.213	MG/KG_DRYWT	DU	0.524	MG/KG_DRYWT	DU	0.518	MG/KG_DRYWT	DU
Total MonoCB	0.071	MG/KG_DRYWT							
Total DiCB	6.75	MG/KG_DRYWT							
Total TriCB	34.91	MG/KG_DRYWT							
Total TetraCB	35.63	MG/KG_DRYWT							
Total PentaCB	21.39	MG/KG_DRYWT							
Total HexaCB	9.995	MG/KG_DRYWT							
Total HeptaCB	1.739	MG/KG_DRYWT							
Total OctaCB	0.369	MG/KG_DRYWT							
Total NonaCB	0.1	MG/KG_DRYWT							
DecaCB	0.04	MG/KG_DRYWT	D						
Total PCB Congeners (sum CONG x 2.6)	100	MG/KG_DRYWT		470	MG/KG_DRYWT		250	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)	110	MG/KG_DRYWT							

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	J10			J10			K21		
Collection Date	11/8/07			11/8/07			11/8/07		
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	REP			SA			SA		
Samp ID	S-07D-0J10-00-07-REP			S-07D-0J10-00-07			S-07D-0K21-00-12		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	5.052	MG/KG_DRYWT	D	5.163	MG/KG_DRYWT	D	17.09	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	11.2	MG/KG_DRYWT	D	10.91	MG/KG_DRYWT	D	25.44	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	10.21	MG/KG_DRYWT	D	10.15	MG/KG_DRYWT	D	22.07	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	5.508	MG/KG_DRYWT	D	5.325	MG/KG_DRYWT	D	9.909	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	20.95	MG/KG_DRYWT	D	19.84	MG/KG_DRYWT	D	26.31	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.224	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU	2.538	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	2.792	MG/KG_DRYWT	D	2.712	MG/KG_DRYWT	D	4.989	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.224	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU	0.216	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	1.865	MG/KG_DRYWT	D	1.722	MG/KG_DRYWT	D	2.949	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.224	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU	0.216	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	1.253	MG/KG_DRYWT	D	1.124	MG/KG_DRYWT	D	2.132	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	3.373	MG/KG_DRYWT	D	3.16	MG/KG_DRYWT	D	4.295	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.224	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU	0.216	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.224	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU	0.216	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.224	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU	0.216	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.224	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU	0.216	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.224	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU	0.216	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.224	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU	0.216	MG/KG_DRYWT	DU
Total MonoCB									
Total DiCB									
Total TriCB									
Total TetraCB									
Total PentaCB									
Total HexaCB									
Total HeptaCB									
Total OctaCB									
Total NonaCB									
DecaCB									
Total PCB Congeners (sum CONG x 2.6)	160	MG/KG_DRYWT		160	MG/KG_DRYWT		310	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)									

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	M17			WW24			WW41		
Collection Date			11/8/07			11/14/07			11/14/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-0M17-00-06			S-07D-WW24-00-08			S-07D-WW41-00-06		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	9.768	MG/KG_DRYWT	D	7.544	MG/KG_DRYWT	D	2.324	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	21.4	MG/KG_DRYWT	D	14.2	MG/KG_DRYWT	D	4.902	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	19.61	MG/KG_DRYWT	D	16.49	MG/KG_DRYWT	D	6.073	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	9.723	MG/KG_DRYWT	D	8.161	MG/KG_DRYWT	D	2.95	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	38.16	MG/KG_DRYWT	D	18.67	MG/KG_DRYWT	D	8.623	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.563	MG/KG_DRYWT	DU	3.528	MG/KG_DRYWT	D	0.104	MG/KG_DRYWT	DU
2,2',4,5,5'-Pentacb (PCB 101)	4.808	MG/KG_DRYWT	D	8.23	MG/KG_DRYWT	D	2.028	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.563	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.104	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	3.015	MG/KG_DRYWT	D	5.64	MG/KG_DRYWT	D	1.562	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.563	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.104	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	1.865	MG/KG_DRYWT	D	2.536	MG/KG_DRYWT	D	0.105	MG/KG_DRYWT	DU
2,2',4,4',5,5'-Hexacb (PCB 153)	5.719	MG/KG_DRYWT	D	6.049	MG/KG_DRYWT	D	2.099	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.563	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.104	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.563	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.104	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.563	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.104	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.563	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.104	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.563	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.104	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.563	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.104	MG/KG_DRYWT	DU
Total MonoCB	0.211	MG/KG_DRYWT							
Total DiCB	33.06	MG/KG_DRYWT							
Total TriCB	115.1	MG/KG_DRYWT							
Total TetraCB	102.9	MG/KG_DRYWT							
Total PentaCB	47.42	MG/KG_DRYWT							
Total HexaCB	20.89	MG/KG_DRYWT							
Total HeptaCB	3.382	MG/KG_DRYWT							
Total OctaCB	0.647	MG/KG_DRYWT							
Total NonaCB	0.198	MG/KG_DRYWT							
DecaCB	0.048	MG/KG_DRYWT	D						
Total PCB Congeners (sum CONG x 2.6)	300	MG/KG_DRYWT		240	MG/KG_DRYWT		80	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)	320	MG/KG_DRYWT							

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	YY32			BBB23			OO26		
Collection Date			11/14/07			11/16/07			11/16/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-YY32-00-02			S-07D-BBB23-00-09			S-07D-OO26-00-07		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	0.514	MG/KG_DRYWT	D	0.09	MG/KG_DRYWT	D	9.751	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	1.066	MG/KG_DRYWT	D	0.27	MG/KG_DRYWT	D	17.82	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	1.536	MG/KG_DRYWT	D	0.383	MG/KG_DRYWT	D	22.22	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	0.707	MG/KG_DRYWT	D	0.141	MG/KG_DRYWT	D	12.41	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	2.272	MG/KG_DRYWT	D	0.602	MG/KG_DRYWT	D	24.09	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.328	MG/KG_DRYWT	D	0.038	MG/KG_DRYWT	D	4.04	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	0.673	MG/KG_DRYWT	D	0.161	MG/KG_DRYWT	D	10.67	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.036	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	0.558	MG/KG_DRYWT	D	0.128	MG/KG_DRYWT	D	6.557	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.028	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	0.34	MG/KG_DRYWT	D	0.075	MG/KG_DRYWT	D	3.488	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	0.659	MG/KG_DRYWT	D	0.178	MG/KG_DRYWT	D	7.978	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.044	MG/KG_DRYWT	Dp	0.011	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.063	MG/KG_DRYWT	D	8.40E-04	MG/KG_DRYWT	DpJ	0.226	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.067	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
Total MonoCB									
Total DiCB									
Total TriCB									
Total TetraCB									
Total PentaCB									
Total HexaCB									
Total HeptaCB									
Total OctaCB									
Total NonaCB									
DecaCB									
Total PCB Congeners (sum CONG x 2.6)	23	MG/KG_DRYWT		5.4	MG/KG_DRYWT		310	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)									

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	OO32			OO38			SS29		
Collection Date			11/16/07			11/16/07			11/16/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-OO32-00-08			S-07D-OO38-00-05			S-07D-SS29-00-07		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	8.637	MG/KG_DRYWT	D	4.767	MG/KG_DRYWT	D	10.36	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	15.75	MG/KG_DRYWT	D	9.546	MG/KG_DRYWT	D	20.05	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	19.89	MG/KG_DRYWT	D	11.83	MG/KG_DRYWT	D	25.03	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	11.32	MG/KG_DRYWT	D	6.33	MG/KG_DRYWT	D	12.83	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	23.61	MG/KG_DRYWT	D	13.98	MG/KG_DRYWT	D	27.18	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	3.762	MG/KG_DRYWT	D	2.033	MG/KG_DRYWT	D	3.746	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	8.522	MG/KG_DRYWT	D	5.421	MG/KG_DRYWT	D	10.8	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.107	MG/KG_DRYWT	DU	0.22	MG/KG_DRYWT	DU	0.537	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	5.461	MG/KG_DRYWT	D	3.567	MG/KG_DRYWT	D	6.805	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.107	MG/KG_DRYWT	DU	0.22	MG/KG_DRYWT	DU	0.537	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	3.212	MG/KG_DRYWT	D	1.572	MG/KG_DRYWT	D	2.698	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	6.768	MG/KG_DRYWT	D	4.086	MG/KG_DRYWT	D	7.51	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.107	MG/KG_DRYWT	DU	0.22	MG/KG_DRYWT	DU	0.537	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.107	MG/KG_DRYWT	DU	0.22	MG/KG_DRYWT	DU	0.537	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.107	MG/KG_DRYWT	DU	0.22	MG/KG_DRYWT	DU	0.537	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.107	MG/KG_DRYWT	DU	0.22	MG/KG_DRYWT	DU	0.537	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.107	MG/KG_DRYWT	DU	0.22	MG/KG_DRYWT	DU	0.537	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.107	MG/KG_DRYWT	DU	0.22	MG/KG_DRYWT	DU	0.537	MG/KG_DRYWT	DU
Total MonoCB									
Total DiCB									
Total TriCB									
Total TetraCB									
Total PentaCB									
Total HexaCB									
Total HeptaCB									
Total OctaCB									
Total NonaCB									
DecaCB									
Total PCB Congeners (sum CONG x 2.6)	280	MG/KG_DRYWT		160	MG/KG_DRYWT		330	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)									

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	VV34			DD22			GG29		
Collection Date			11/16/07			11/20/07			11/20/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-VV34-00-10			S-07D-DD22-00-11			S-07D-GG29-00-06		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	8.823	MG/KG_DRYWT	D	16.1	MG/KG_DRYWT	D	57.24	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	19.2	MG/KG_DRYWT	D	28.76	MG/KG_DRYWT	D	88.21	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	27.65	MG/KG_DRYWT	D	37.96	MG/KG_DRYWT	D	111.9	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	14.62	MG/KG_DRYWT	D	23.09	MG/KG_DRYWT	D	53.84	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	29.4	MG/KG_DRYWT	D	35.32	MG/KG_DRYWT	D	93.05	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	6.297	MG/KG_DRYWT	D	8.043	MG/KG_DRYWT	D	19.35	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	14.05	MG/KG_DRYWT	D	24.83	MG/KG_DRYWT	D	49.14	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.566	MG/KG_DRYWT	DU	0.558	MG/KG_DRYWT	DU	1.104	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	9.455	MG/KG_DRYWT	D	13.79	MG/KG_DRYWT	D	25.53	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.566	MG/KG_DRYWT	DU	0.558	MG/KG_DRYWT	DU	1.104	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	4.017	MG/KG_DRYWT	D	5.927	MG/KG_DRYWT	D	12.46	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	9.947	MG/KG_DRYWT	D	14.72	MG/KG_DRYWT	D	30.54	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.566	MG/KG_DRYWT	DU	0.558	MG/KG_DRYWT	DU	0.449	MG/KG_DRYWT	DpJ
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.566	MG/KG_DRYWT	DU	0.389	MG/KG_DRYWT	DpJ	1.098	MG/KG_DRYWT	DpJ
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.566	MG/KG_DRYWT	DU	0.558	MG/KG_DRYWT	DU	0.99	MG/KG_DRYWT	DpJ
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.566	MG/KG_DRYWT	DU	0.558	MG/KG_DRYWT	DU	1.104	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.566	MG/KG_DRYWT	DU	0.558	MG/KG_DRYWT	DU	1.104	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.566	MG/KG_DRYWT	DU	0.558	MG/KG_DRYWT	DU	1.104	MG/KG_DRYWT	DU
Total MonoCB									
Total DiCB									
Total TriCB									
Total TetraCB									
Total PentaCB									
Total HexaCB									
Total HeptaCB									
Total OctaCB									
Total NonaCB									
DecaCB									
Total PCB Congeners (sum CONG x 2.6)	370	MG/KG_DRYWT		540	MG/KG_DRYWT		1400	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)									

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	GG33-F07			HH22			II25		
Collection Date			11/20/07			11/20/07			11/20/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-GG33-00-06			S-07D-HH22-00-10			S-07D-II25-00-04		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	9.55	MG/KG_DRYWT	D	14.92	MG/KG_DRYWT	D	7.909	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	16.74	MG/KG_DRYWT	D	27.71	MG/KG_DRYWT	D	14.96	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	23.39	MG/KG_DRYWT	D	37.08	MG/KG_DRYWT	D	18.7	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	13.32	MG/KG_DRYWT	D	18.19	MG/KG_DRYWT	D	9.321	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	20.71	MG/KG_DRYWT	D	36.33	MG/KG_DRYWT	D	20.87	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	3.915	MG/KG_DRYWT	D	4.324	MG/KG_DRYWT	Dp	2.51	MG/KG_DRYWT	Dp
2,2',4,5,5'-Pentacb (PCB 101)	10.37	MG/KG_DRYWT	D	17.05	MG/KG_DRYWT	D	8.324	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.223	MG/KG_DRYWT	DU	0.57	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	5.675	MG/KG_DRYWT	D	8.667	MG/KG_DRYWT	D	5.003	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.223	MG/KG_DRYWT	DU	0.57	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	3.206	MG/KG_DRYWT	D	4.544	MG/KG_DRYWT	D	2.734	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	6.794	MG/KG_DRYWT	D	11.42	MG/KG_DRYWT	D	6.349	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.223	MG/KG_DRYWT	DU	0.57	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.223	MG/KG_DRYWT	DU	0.57	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.223	MG/KG_DRYWT	DU	0.57	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.223	MG/KG_DRYWT	DU	0.57	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.223	MG/KG_DRYWT	DU	0.57	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.223	MG/KG_DRYWT	DU	0.57	MG/KG_DRYWT	DU	0.226	MG/KG_DRYWT	DU
Total MonoCB									
Total DiCB									
Total TriCB									
Total TetraCB									
Total PentaCB									
Total HexaCB									
Total HeptaCB									
Total OctaCB									
Total NonaCB									
DecaCB									
Total PCB Congeners (sum CONG x 2.6)	300	MG/KG_DRYWT		470	MG/KG_DRYWT		250	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)									

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	II36			KK32-F07			LL40		
Collection Date			11/20/07			11/20/07			11/20/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-II36-00-06			S-07D-KK32-00-09			S-07D-LL40-00-03		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	13.08	MG/KG_DRYWT	D	9.261	MG/KG_DRYWT	D	5.436	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	24.72	MG/KG_DRYWT	D	18.02	MG/KG_DRYWT	D	11.05	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	31.44	MG/KG_DRYWT	D	22.55	MG/KG_DRYWT	D	13.92	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	16.61	MG/KG_DRYWT	D	11.09	MG/KG_DRYWT	D	7.01	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	33.32	MG/KG_DRYWT	D	24.52	MG/KG_DRYWT	D	17.3	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	3.662	MG/KG_DRYWT	D	2.727	MG/KG_DRYWT	D	1.834	MG/KG_DRYWT	Dp
2,2',4,5,5'-Pentacb (PCB 101)	12.65	MG/KG_DRYWT	D	8.724	MG/KG_DRYWT	D	5.68	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.566	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	7.044	MG/KG_DRYWT	D	5.41	MG/KG_DRYWT	D	3.595	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.566	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	3.566	MG/KG_DRYWT	D	3.121	MG/KG_DRYWT	D	1.922	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	8.579	MG/KG_DRYWT	D	6.988	MG/KG_DRYWT	D	4.659	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.566	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.566	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.566	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.566	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.566	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.566	MG/KG_DRYWT	DU	0.228	MG/KG_DRYWT	DU	0.225	MG/KG_DRYWT	DU
Total MonoCB									
Total DiCB									
Total TriCB									
Total TetraCB									
Total PentaCB									
Total HexaCB									
Total HeptaCB									
Total OctaCB									
Total NonaCB									
DecaCB									
Total PCB Congeners (sum CONG x 2.6)	400	MG/KG_DRYWT		290	MG/KG_DRYWT		190	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)									

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	MM22			MM29			DD31-F07		
Collection Date			11/20/07			11/20/07			11/28/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-MM22-00-05			S-07D-MM29-00-09			S-07D-DD31-00-10		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	9.033	MG/KG_DRYWT	D	8.276	MG/KG_DRYWT	D	36.09	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	17.01	MG/KG_DRYWT	D	15.46	MG/KG_DRYWT	D	62.41	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	21.08	MG/KG_DRYWT	D	19.71	MG/KG_DRYWT	D	75.99	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	11.32	MG/KG_DRYWT	D	10.6	MG/KG_DRYWT	D	49.01	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	23.66	MG/KG_DRYWT	D	21.6	MG/KG_DRYWT	D	82.88	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	3.495	MG/KG_DRYWT	D	3.212	MG/KG_DRYWT	D	12	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	10.72	MG/KG_DRYWT	D	9.232	MG/KG_DRYWT	D	36	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.224	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.094	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	6.226	MG/KG_DRYWT	D	5.649	MG/KG_DRYWT	D	18.65	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.224	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.094	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	3.385	MG/KG_DRYWT	D	2.975	MG/KG_DRYWT	D	10.31	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	7.899	MG/KG_DRYWT	D	6.929	MG/KG_DRYWT	D	23.36	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.224	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.094	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.224	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	0.338	MG/KG_DRYWT	DpJ
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.224	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	0.566	MG/KG_DRYWT	DpJ
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.224	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.094	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.224	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.094	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.224	MG/KG_DRYWT	DU	0.224	MG/KG_DRYWT	DU	1.094	MG/KG_DRYWT	DU
Total MonoCB				0.178	MG/KG_DRYWT				
Total DiCB				27.37	MG/KG_DRYWT				
Total TriCB				100.3	MG/KG_DRYWT				
Total TetraCB				80.36	MG/KG_DRYWT				
Total PentaCB				53.05	MG/KG_DRYWT				
Total HexaCB				20.79	MG/KG_DRYWT				
Total HeptaCB				3.623	MG/KG_DRYWT				
Total OctaCB				0.626	MG/KG_DRYWT				
Total NonaCB				0.165	MG/KG_DRYWT				
DecaCB				0.036	MG/KG_DRYWT	D			
Total PCB Congeners (sum CONG x 2.6)	300	MG/KG_DRYWT		270	MG/KG_DRYWT		1100	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)				290	MG/KG_DRYWT				

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	DD36			DD36			EE41		
Collection Date			11/28/07			11/28/07			11/28/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			REP			SA		
Samp ID	S-07D-DD36-00-10			S-07D-DD36-00-11-REP			S-07D-EE41-00-14		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	36.63	MG/KG_DRYWT	D	32.96	MG/KG_DRYWT	D	22.38	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	63.81	MG/KG_DRYWT	D	59.38	MG/KG_DRYWT	D	38.17	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	72.16	MG/KG_DRYWT	D	66.81	MG/KG_DRYWT	D	41.14	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	44.59	MG/KG_DRYWT	D	42.34	MG/KG_DRYWT	D	25.14	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	96.04	MG/KG_DRYWT	D	91.74	MG/KG_DRYWT	D	58.93	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	28.35	MG/KG_DRYWT	Dp	3.446	MG/KG_DRYWT	Dp	3.531	MG/KG_DRYWT	Dp
2,2',4,5,5'-Pentacb (PCB 101)	21.97	MG/KG_DRYWT	D	20.6	MG/KG_DRYWT	D	12.91	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	1.077	MG/KG_DRYWT	DU	1.104	MG/KG_DRYWT	DU	0.533	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	10.65	MG/KG_DRYWT	D	9.237	MG/KG_DRYWT	D	6.952	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	1.077	MG/KG_DRYWT	DU	1.104	MG/KG_DRYWT	DU	0.533	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	8.77	MG/KG_DRYWT	D	8.174	MG/KG_DRYWT	D	6.082	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	17.27	MG/KG_DRYWT	D	15.92	MG/KG_DRYWT	D	11.51	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	1.077	MG/KG_DRYWT	DU	1.104	MG/KG_DRYWT	DU	0.533	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.095	MG/KG_DRYWT	DpJ	1.104	MG/KG_DRYWT	UJ	0.533	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.607	MG/KG_DRYWT	DpJ	0.439	MG/KG_DRYWT	DpJ	0.981	MG/KG_DRYWT	D
2,2',3,3',4,4',5,6-Octacb (PCB 195)	1.077	MG/KG_DRYWT	DU	1.104	MG/KG_DRYWT	DU	0.533	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	1.077	MG/KG_DRYWT	DU	1.104	MG/KG_DRYWT	DU	0.533	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	1.077	MG/KG_DRYWT	DU	1.104	MG/KG_DRYWT	DU	0.533	MG/KG_DRYWT	DU
Total MonoCB							0.395	MG/KG_DRYWT	
Total DiCB							67.17	MG/KG_DRYWT	
Total TriCB							219.4	MG/KG_DRYWT	
Total TetraCB							191.3	MG/KG_DRYWT	
Total PentaCB							98.41	MG/KG_DRYWT	
Total HexaCB							39.65	MG/KG_DRYWT	
Total HeptaCB							6.195	MG/KG_DRYWT	
Total OctaCB							1.014	MG/KG_DRYWT	
Total NonaCB							0.264	MG/KG_DRYWT	
DecaCB							0.051	MG/KG_DRYWT	D
Total PCB Congeners (sum CONG x 2.6)	1000	MG/KG_DRYWT		910	MG/KG_DRYWT		590	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)							620	MG/KG_DRYWT	

APPENDIX B

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	AA22			AA22-F07		
Collection Date			12/11/07			12/11/07
Fraction	TOTAL			TOTAL		
QC Code	REP			SA		
Samp ID	S-07D-AA22-10-20-REP			S-07D-AA22-10-20		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	5.628	MG/KG_DRYWT	D	5	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	8.539	MG/KG_DRYWT	D	7.481	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	9.205	MG/KG_DRYWT	D	7.772	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	4.152	MG/KG_DRYWT	D	3.588	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	6.979	MG/KG_DRYWT	D	6.234	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.117	MG/KG_DRYWT	UJ	0.099	MG/KG_DRYWT	DJ
2,2',4,5,5'-Pentacb (PCB 101)	1.072	MG/KG_DRYWT	D	1.145	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.117	MG/KG_DRYWT	DU	0.12	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	0.498	MG/KG_DRYWT	Dp	0.528	MG/KG_DRYWT	Dp
2,2',3,3',4,4'-Hexacb (PCB 128)	0.117	MG/KG_DRYWT	DU	0.12	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	0.272	MG/KG_DRYWT	D	0.26	MG/KG_DRYWT	Dp
2,2',4,4',5,5'-Hexacb (PCB 153)	0.736	MG/KG_DRYWT	D	0.722	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.117	MG/KG_DRYWT	DU	0.12	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.117	MG/KG_DRYWT	DU	0.12	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.117	MG/KG_DRYWT	DU	0.12	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.117	MG/KG_DRYWT	DU	0.12	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.117	MG/KG_DRYWT	DU	0.12	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.117	MG/KG_DRYWT	DU	0.12	MG/KG_DRYWT	DU
Total MonoCB						
Total DiCB						
Total TriCB						
Total TetraCB						
Total PentaCB						
Total HexaCB						
Total HeptaCB						
Total OctaCB						
Total NonaCB						
DecaCB						
Total PCB Congeners (sum CONG x 2.6)	96	MG/KG_DRYWT		85	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)						

APPENDIX B

2007 OU3 Pilot Cap Sediment PCB Analytical Results

Station ID	OU01			OU02			OU03			OU04		
Collection Date	9/18/07			9/18/07			9/18/07			9/18/07		
Fraction	TOTAL			TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA			SA		
Samp ID	S-07B-OU01-00-03			S-07B-OU02-00-03			S-07B-OU03-00-03			S-07B-OU04-00-03		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	0.0051	MG/KG_DRYWT	D	0.017	MG/KG_DRYWT	D	0.015	MG/KG_DRYWT	D	0.075	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	0.0075	MG/KG_DRYWT	D	0.016	MG/KG_DRYWT	D	0.013	MG/KG_DRYWT	D	0.063	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	0.021	MG/KG_DRYWT	D	0.04	MG/KG_DRYWT	D	0.032	MG/KG_DRYWT	D	0.151	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	0.01	MG/KG_DRYWT	D	0.015	MG/KG_DRYWT	D	0.013	MG/KG_DRYWT	D	0.036	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	0.02	MG/KG_DRYWT	D	0.033	MG/KG_DRYWT	D	0.027	MG/KG_DRYWT	D	0.115	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.013	MG/KG_DRYWT	D	0.021	MG/KG_DRYWT	D	0.019	MG/KG_DRYWT	D	0.073	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	0.017	MG/KG_DRYWT	D	0.028	MG/KG_DRYWT	D	0.021	MG/KG_DRYWT	D	0.083	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.0042	MG/KG_DRYWT	D	0.0078	MG/KG_DRYWT	D	0.0076	MG/KG_DRYWT	D	0.019	MG/KG_DRYWT	Dp
2,3',4,4',5-Pentacb (PCB 118)	0.019	MG/KG_DRYWT	D	0.032	MG/KG_DRYWT	D	0.025	MG/KG_DRYWT	D	0.111	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.0021	MG/KG_DRYWT	D	0.003	MG/KG_DRYWT	D	0.0027	MG/KG_DRYWT	D	0.0051	MG/KG_DRYWT	D
2,2',3,4,4',5'-Hexacb (PCB 138)	0.015	MG/KG_DRYWT	D	0.024	MG/KG_DRYWT	D	0.018	MG/KG_DRYWT	D	0.059	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	0.015	MG/KG_DRYWT	D	0.023	MG/KG_DRYWT	D	0.02	MG/KG_DRYWT	D	0.073	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.0011	MG/KG_DRYWT	Dp	0.0013	MG/KG_DRYWT	Dp	0.0007	MG/KG_DRYWT	Dp	0.001	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.0016	MG/KG_DRYWT	Dp	0.0015	MG/KG_DRYWT	Dp	0.0016	MG/KG_DRYWT	Dp	0.001	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.00062	MG/KG_DRYWT	Dp	0.0001	MG/KG_DRYWT	DU	0.00054	MG/KG_DRYWT	Dp	0.001	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.0005	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU	0.001	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.0005	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU	0.001	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.0005	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU	0.001	MG/KG_DRYWT	DU
Total MonoCB												
Total DiCB												
Total TriCB												
Total TetraCB												
Total PentaCB												
Total HexaCB												
Total HeptaCB												
Total OctaCB												
Total NonaCB												
DecaCB												
Total PCB Congeners (sum CONG x 2.6)	0.4	MG/KG_DRYWT		0.68	MG/KG_DRYWT		0.56	MG/KG_DRYWT		2.2	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)												

APPENDIX B

2007 OU3 Pilot Cap Sediment PCB Analytical Results

Station ID	OU05			OU06			OU07			OU08		
Collection Date	9/18/07			9/18/07			9/18/07			9/18/07		
Fraction	TOTAL			TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA			SA		
Samp ID	S-07B-OU05-00-03			S-07B-OU06-00-03			S-07B-OU07-00-03			S-07B-OU08-00-03		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	0.012	MG/KG_DRYWT	D	0.036	MG/KG_DRYWT	D	0.051	MG/KG_DRYWT	D	0.035	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	0.012	MG/KG_DRYWT	D	0.036	MG/KG_DRYWT	D	0.043	MG/KG_DRYWT	D	0.032	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	0.039	MG/KG_DRYWT	D	0.081	MG/KG_DRYWT	D	0.095	MG/KG_DRYWT	D	0.063	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	0.015	MG/KG_DRYWT	D	0.026	MG/KG_DRYWT	D	0.036	MG/KG_DRYWT	D	0.027	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	0.035	MG/KG_DRYWT	D	0.069	MG/KG_DRYWT	D	0.077	MG/KG_DRYWT	D	0.052	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.024	MG/KG_DRYWT	D	0.044	MG/KG_DRYWT	D	0.053	MG/KG_DRYWT	D	0.033	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	0.032	MG/KG_DRYWT	D	0.052	MG/KG_DRYWT	D	0.062	MG/KG_DRYWT	D	0.039	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.012	MG/KG_DRYWT	D	0.014	MG/KG_DRYWT	D	0.024	MG/KG_DRYWT	D	0.014	MG/KG_DRYWT	D
2,3',4,4',5-Pentacb (PCB 118)	0.041	MG/KG_DRYWT	D	0.062	MG/KG_DRYWT	D	0.073	MG/KG_DRYWT	D	0.046	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.0045	MG/KG_DRYWT	D	0.0005	MG/KG_DRYWT	DU	0.01	MG/KG_DRYWT	D	0.0057	MG/KG_DRYWT	D
2,2',3,4,4',5'-Hexacb (PCB 138)	0.031	MG/KG_DRYWT	D	0.043	MG/KG_DRYWT	D	0.054	MG/KG_DRYWT	D	0.032	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	0.033	MG/KG_DRYWT	D	0.049	MG/KG_DRYWT	D	0.061	MG/KG_DRYWT	D	0.034	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.0024	MG/KG_DRYWT	Dp	0.0005	MG/KG_DRYWT	DU	0.0058	MG/KG_DRYWT	Dp	0.0031	MG/KG_DRYWT	D
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.0031	MG/KG_DRYWT	Dp	0.0005	MG/KG_DRYWT	DU	0.0067	MG/KG_DRYWT	D	0.0039	MG/KG_DRYWT	D
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.001	MG/KG_DRYWT	DU	0.0005	MG/KG_DRYWT	DU	0.0042	MG/KG_DRYWT	Dp	0.0027	MG/KG_DRYWT	Dp
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.001	MG/KG_DRYWT	DU	0.0005	MG/KG_DRYWT	DU	0.001	MG/KG_DRYWT	DU	0.0005	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.001	MG/KG_DRYWT	DU	0.0005	MG/KG_DRYWT	DU	0.001	MG/KG_DRYWT	DU	0.0005	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.001	MG/KG_DRYWT	DU	0.0005	MG/KG_DRYWT	DU	0.001	MG/KG_DRYWT	DU	0.0005	MG/KG_DRYWT	DU
Total MonoCB												
Total DiCB												
Total TriCB												
Total TetraCB												
Total PentaCB												
Total HexaCB												
Total HeptaCB												
Total OctaCB												
Total NonaCB												
DecaCB												
Total PCB Congeners (sum CONG x 2.6)	0.77	MG/KG_DRYWT		1.3	MG/KG_DRYWT		1.7	MG/KG_DRYWT		1.1	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)												

APPENDIX B

2007 OU3 Pilot Cap Sediment PCB Analytical Results

Station ID	OU09			OU10_07			OU11_07			OU12_07		
Collection Date	9/18/07			9/18/07			9/18/07			9/19/07		
Fraction	TOTAL			TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA			SA		
Samp ID	S-07B-OU09-00-03			S-07B-OU10-00-03			S-07B-OU11-00-03			S-07B-OU12-00-03		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	0.075	MG/KG_DRYWT	D	0.15	MG/KG_DRYWT	D	0.0074	MG/KG_DRYWT	D	0.119	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	0.069	MG/KG_DRYWT	D	0.118	MG/KG_DRYWT	D	0.0063	MG/KG_DRYWT	D	0.095	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	0.124	MG/KG_DRYWT	D	0.224	MG/KG_DRYWT	D	0.019	MG/KG_DRYWT	D	0.186	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	0.037	MG/KG_DRYWT	D	0.049	MG/KG_DRYWT	D	0.005	MG/KG_DRYWT	D	0.059	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	0.098	MG/KG_DRYWT	D	0.151	MG/KG_DRYWT	D	0.015	MG/KG_DRYWT	D	0.126	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.047	MG/KG_DRYWT	D	0.087	MG/KG_DRYWT	D	0.0095	MG/KG_DRYWT	D	0.086	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	0.058	MG/KG_DRYWT	D	0.102	MG/KG_DRYWT	D	0.013	MG/KG_DRYWT	D	0.088	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.016	MG/KG_DRYWT	D	0.023	MG/KG_DRYWT	Dp	0.0029	MG/KG_DRYWT	Dp	0.034	MG/KG_DRYWT	D
2,3',4,4',5-Pentacb (PCB 118)	0.069	MG/KG_DRYWT	D	0.129	MG/KG_DRYWT	D	0.017	MG/KG_DRYWT	D	0.109	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.0044	MG/KG_DRYWT	D	0.0031	MG/KG_DRYWT	D	0.00024	MG/KG_DRYWT	DJ	0.011	MG/KG_DRYWT	D
2,2',3,4,4',5'-Hexacb (PCB 138)	0.046	MG/KG_DRYWT	D	0.08	MG/KG_DRYWT	D	0.012	MG/KG_DRYWT	D	0.07	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	0.042	MG/KG_DRYWT	D	0.084	MG/KG_DRYWT	D	0.013	MG/KG_DRYWT	D	0.075	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.0001	MG/KG_DRYWT	DU	0.0011	MG/KG_DRYWT	DU	0.00098	MG/KG_DRYWT	DU	0.0031	MG/KG_DRYWT	Dp
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.0001	MG/KG_DRYWT	DU	0.0011	MG/KG_DRYWT	DU	0.00098	MG/KG_DRYWT	DU	0.0058	MG/KG_DRYWT	Dp
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.0001	MG/KG_DRYWT	DU	0.0011	MG/KG_DRYWT	DU	0.00098	MG/KG_DRYWT	DU	0.0017	MG/KG_DRYWT	DpJ
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.0001	MG/KG_DRYWT	DU	0.0011	MG/KG_DRYWT	DU	0.00098	MG/KG_DRYWT	DU	0.002	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.0001	MG/KG_DRYWT	DU	0.0011	MG/KG_DRYWT	DU	0.00098	MG/KG_DRYWT	DU	0.002	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.0001	MG/KG_DRYWT	DU	0.0011	MG/KG_DRYWT	DU	0.00098	MG/KG_DRYWT	DU	0.002	MG/KG_DRYWT	DU
Total MonoCB	0.006	MG/KG_DRYWT										
Total DiCB	0.104	MG/KG_DRYWT										
Total TriCB	0.342	MG/KG_DRYWT										
Total TetraCB	0.278	MG/KG_DRYWT										
Total PentaCB	0.261	MG/KG_DRYWT										
Total HexaCB	0.103	MG/KG_DRYWT										
Total HeptaCB	0.028	MG/KG_DRYWT	J									
Total OctaCB	0.02	MG/KG_DRYWT	U									
Total NonaCB	0.0059	MG/KG_DRYWT	U									
DecaCB	0.002	MG/KG_DRYWT	DU									
Total PCB Congeners (sum CONG x 2.6)	1.8	MG/KG_DRYWT		3.1	MG/KG_DRYWT		0.31	MG/KG_DRYWT		2.8	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)	1.1	MG/KG_DRYWT										

APPENDIX B

2007 OU3 Pilot Cap Sediment PCB Analytical Results

Station ID	OU13_07			OU13_07			OU14_07			OU15_07		
Collection Date	9/19/07			9/19/07			9/19/07			9/19/07		
Fraction	TOTAL			TOTAL			TOTAL			TOTAL		
QC Code	REP			SA			SA			SA		
Samp ID	S-07B-OU13-00-03-DUP			S-07B-OU13-00-03			S-07B-OU14-00-03			S-07B-OU15-00-03		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	0.099	MG/KG_DRYWT	D	0.167	MG/KG_DRYWT	D	0.086	MG/KG_DRYWT	D	0.174	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	0.068	MG/KG_DRYWT	D	0.129	MG/KG_DRYWT	D	0.069	MG/KG_DRYWT	D	0.141	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	0.123	MG/KG_DRYWT	D	0.208	MG/KG_DRYWT	D	0.135	MG/KG_DRYWT	D	0.216	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	0.017	MG/KG_DRYWT	D	0.04	MG/KG_DRYWT	D	0.045	MG/KG_DRYWT	D	0.081	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	0.064	MG/KG_DRYWT	D	0.118	MG/KG_DRYWT	D	0.091	MG/KG_DRYWT	D	0.16	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.035	MG/KG_DRYWT	D	0.06	MG/KG_DRYWT	D	0.053	MG/KG_DRYWT	D	0.081	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	0.024	MG/KG_DRYWT	D	0.048	MG/KG_DRYWT	D	0.053	MG/KG_DRYWT	D	0.078	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.0042	MG/KG_DRYWT	DpJ	0.007	MG/KG_DRYWT	Dp	0.016	MG/KG_DRYWT	D	0.028	MG/KG_DRYWT	D
2,3',4,4',5-Pentacb (PCB 118)	0.037	MG/KG_DRYWT	D	0.065	MG/KG_DRYWT	D	0.061	MG/KG_DRYWT	D	0.089	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.0048	MG/KG_DRYWT	DU	0.0051	MG/KG_DRYWT	DU	0.0043	MG/KG_DRYWT	D	0.0071	MG/KG_DRYWT	D
2,2',3,4,4',5'-Hexacb (PCB 138)	0.017	MG/KG_DRYWT	Dp	0.03	MG/KG_DRYWT	D	0.041	MG/KG_DRYWT	D	0.058	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	0.015	MG/KG_DRYWT	Dp	0.026	MG/KG_DRYWT	Dp	0.046	MG/KG_DRYWT	D	0.066	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.0048	MG/KG_DRYWT	DU	0.0051	MG/KG_DRYWT	DU	0.0013	MG/KG_DRYWT	DpJ	0.0033	MG/KG_DRYWT	Dp
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.0048	MG/KG_DRYWT	DU	0.0051	MG/KG_DRYWT	DU	0.0023	MG/KG_DRYWT	Dp	0.0047	MG/KG_DRYWT	Dp
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.0048	MG/KG_DRYWT	DU	0.0051	MG/KG_DRYWT	DU	0.0019	MG/KG_DRYWT	DU	0.0011	MG/KG_DRYWT	DpJ
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.0048	MG/KG_DRYWT	DU	0.0051	MG/KG_DRYWT	DU	0.0019	MG/KG_DRYWT	DU	0.002	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.0048	MG/KG_DRYWT	DU	0.0051	MG/KG_DRYWT	DU	0.0019	MG/KG_DRYWT	DU	0.002	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.0048	MG/KG_DRYWT	DU	0.0051	MG/KG_DRYWT	DU	0.0019	MG/KG_DRYWT	DU	0.002	MG/KG_DRYWT	DU
Total MonoCB												
Total DiCB												
Total TriCB												
Total TetraCB												
Total PentaCB												
Total HexaCB												
Total HeptaCB												
Total OctaCB												
Total NonaCB												
DecaCB												
Total PCB Congeners (sum CONG x 2.6)	1.3	MG/KG_DRYWT		2.3	MG/KG_DRYWT		1.8	MG/KG_DRYWT		3.1	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)												

APPENDIX B

2007 OU3 Pilot Cap Sediment PCB Analytical Results

Station ID	OU16_07			OU17_07		
Collection Date	9/19/07			9/19/07		
Fraction	TOTAL			TOTAL		
QC Code	SA			SA		
Samp ID	S-07B-OU16-00-03			S-07B-OU17-00-03		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	0.273	MG/KG_DRYWT	D	0.0056	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	0.201	MG/KG_DRYWT	D	0.0061	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	0.349	MG/KG_DRYWT	D	0.014	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	0.08	MG/KG_DRYWT	D	0.0047	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	0.195	MG/KG_DRYWT	D	0.012	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.111	MG/KG_DRYWT	D	0.0073	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	0.092	MG/KG_DRYWT	D	0.0099	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.022	MG/KG_DRYWT	D	0.0025	MG/KG_DRYWT	Dp
2,3',4,4',5-Pentacb (PCB 118)	0.115	MG/KG_DRYWT	D	0.012	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.001	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	0.058	MG/KG_DRYWT	D	0.0088	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	0.052	MG/KG_DRYWT	D	0.0099	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.001	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.001	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.001	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.001	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.001	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.001	MG/KG_DRYWT	DU	0.0001	MG/KG_DRYWT	DU
Total MonoCB	0.027	MG/KG_DRYWT				
Total DiCB	0.368	MG/KG_DRYWT				
Total TriCB	0.976	MG/KG_DRYWT				
Total TetraCB	0.63	MG/KG_DRYWT				
Total PentaCB	0.441	MG/KG_DRYWT				
Total HexaCB	0.151	MG/KG_DRYWT				
Total HeptaCB	0.041	MG/KG_DRYWT	J			
Total OctaCB	0.05	MG/KG_DRYWT	U			
Total NonaCB	0.015	MG/KG_DRYWT	U			
DecaCB	0.005	MG/KG_DRYWT	DU			
Total PCB Congeners (sum CONG x 2.6)	4	MG/KG_DRYWT		0.24	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)	2.6	MG/KG_DRYWT				

APPENDIX B

2007 Boat House Sediment PCB Analytical Results

Station ID	BH1			BH1			BH1			BH2		
Collection Date	11/29/07			11/29/07			11/29/07			11/29/07		
Fraction	TOTAL			TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA			SA		
Samp ID	S-07D-0BH1-00-10			S-07D-0BH1-10-20			S-07D-0BH1-20-25			S-07D-0BH2-00-10		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	0.212	MG/KG_DRYWT	D	0.087	MG/KG_DRYWT	Dp	0.0002	MG/KG_DRYWT	DU	1.765	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	0.535	MG/KG_DRYWT	D	0.128	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	DU	4.342	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	1.145	MG/KG_DRYWT	D	0.173	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	DU	7.668	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	0.693	MG/KG_DRYWT	D	0.335	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	DU	4.505	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	1.475	MG/KG_DRYWT	D	0.797	MG/KG_DRYWT	D	0.0026	MG/KG_DRYWT	Dp	5.922	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.773	MG/KG_DRYWT	D	0.174	MG/KG_DRYWT	D	0.00087	MG/KG_DRYWT	Dp	5.199	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	0.852	MG/KG_DRYWT	D	0.457	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	DU	3.644	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.171	MG/KG_DRYWT	D	0.032	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	DU	0.114	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	0.733	MG/KG_DRYWT	D	0.267	MG/KG_DRYWT	D	0.0025	MG/KG_DRYWT	Dp	3.153	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.061	MG/KG_DRYWT	D	0.0054	MG/KG_DRYWT	DpJ	0.0002	MG/KG_DRYWT	DU	0.114	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	0.432	MG/KG_DRYWT	D	0.18	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	DU	0.115	MG/KG_DRYWT	DU
2,2',4,4',5,5'-Hexacb (PCB 153)	0.659	MG/KG_DRYWT	D	0.317	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	DU	2.232	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.044	MG/KG_DRYWT	D	0.0028	MG/KG_DRYWT	DpJ	0.0002	MG/KG_DRYWT	DU	0.114	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.071	MG/KG_DRYWT	D	0.01	MG/KG_DRYWT	DpJ	0.0002	MG/KG_DRYWT	DU	0.114	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.052	MG/KG_DRYWT	D	0.013	MG/KG_DRYWT	Dp	0.0002	MG/KG_DRYWT	DU	0.114	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.01	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.114	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.01	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.114	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.01	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.114	MG/KG_DRYWT	DU
Total MonoCB												
Total DiCB												
Total TriCB												
Total TetraCB												
Total PentaCB												
Total HexaCB												
Total HeptaCB												
Total OctaCB												
Total NonaCB												
DecaCB												
Total PCB Congeners (sum CONG x 2.6)	21	MG/KG_DRYWT		7.8	MG/KG_DRYWT		0.016	MG/KG_DRYWT		100	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)												

APPENDIX B

2007 Boat House Sediment PCB Analytical Results

Station ID	BH2			BH2			BH3			BH3		
Collection Date			11/29/07			11/29/07			11/29/07			11/29/07
Fraction	TOTAL			TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			REP			SA		
Samp ID	S-07D-0BH2-10-20			S-07D-0BH2-20-30			S-07D-0BH3-00-10-REP			S-07D-0BH3-00-10		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	2.482	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU	0.052	MG/KG_DRYWT	UJ	0.409	MG/KG_DRYWT	D
2,2',5-Tricb (PCB 18)	5.41	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU	0.052	MG/KG_DRYWT	UJ	0.65	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	10.67	MG/KG_DRYWT	D	0.193	MG/KG_DRYWT	Dp	2.494	MG/KG_DRYWT	D	1.475	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	6.622	MG/KG_DRYWT	D	0.334	MG/KG_DRYWT	D	1.676	MG/KG_DRYWT	D	0.829	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	10.2	MG/KG_DRYWT	D	0.904	MG/KG_DRYWT	D	2.774	MG/KG_DRYWT	D	1.645	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	9.769	MG/KG_DRYWT	D	0.258	MG/KG_DRYWT	D	1.8	MG/KG_DRYWT	D	0.727	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	13.51	MG/KG_DRYWT	D	0.921	MG/KG_DRYWT	D	2.295	MG/KG_DRYWT	D	1.052	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.226	MG/KG_DRYWT	DU	0.256	MG/KG_DRYWT	D	0.052	MG/KG_DRYWT	UJ	0.212	MG/KG_DRYWT	D
2,3',4,4',5-Pentacb (PCB 118)	11.68	MG/KG_DRYWT	D	0.808	MG/KG_DRYWT	D	1.992	MG/KG_DRYWT	D	0.96	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.226	MG/KG_DRYWT	DU	0.15	MG/KG_DRYWT	D	0.052	MG/KG_DRYWT	UJ	0.104	MG/KG_DRYWT	D
2,2',3,4,4',5'-Hexacb (PCB 138)	5.467	MG/KG_DRYWT	D	0.722	MG/KG_DRYWT	D	0.052	MG/KG_DRYWT	UJ	0.6	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	8.997	MG/KG_DRYWT	D	0.859	MG/KG_DRYWT	Dp	1.571	MG/KG_DRYWT	D	0.859	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.226	MG/KG_DRYWT	DU	0.084	MG/KG_DRYWT	D	0.052	MG/KG_DRYWT	UJ	0.072	MG/KG_DRYWT	D
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.226	MG/KG_DRYWT	DU	0.145	MG/KG_DRYWT	D	0.052	MG/KG_DRYWT	UJ	0.106	MG/KG_DRYWT	D
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.226	MG/KG_DRYWT	DU	0.082	MG/KG_DRYWT	D	0.052	MG/KG_DRYWT	UJ	0.072	MG/KG_DRYWT	D
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.226	MG/KG_DRYWT	DU	0.057	MG/KG_DRYWT	Dp	0.052	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.226	MG/KG_DRYWT	DU	0.145	MG/KG_DRYWT	D	0.052	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.226	MG/KG_DRYWT	DU	0.12	MG/KG_DRYWT	D	0.052	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU
Total MonoCB												
Total DiCB												
Total TriCB												
Total TetraCB												
Total PentaCB												
Total HexaCB												
Total HeptaCB												
Total OctaCB												
Total NonaCB												
DecaCB												
Total PCB Congeners (sum CONG x 2.6)	220	MG/KG_DRYWT		16	MG/KG_DRYWT		38	MG/KG_DRYWT		25	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)												

APPENDIX B

2007 Boat House Sediment PCB Analytical Results

Station ID	BH3			BH3			BH3			BH3		
Collection Date	11/29/07			11/29/07			11/29/07			11/29/07		
Fraction	TOTAL			TOTAL			TOTAL			TOTAL		
QC Code	REP			SA			REP			SA		
Samp ID	S-07D-0BH3-10-20-REP			S-07D-0BH3-10-20			S-07D-0BH3-20-30-REP			S-07D-0BH3-20-30		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	0.014	MG/KG_DRYWT	Dp	0.001	MG/KG_DRYWT	D	0.00054	MG/KG_DRYWT	Dp	0.0015	MG/KG_DRYWT	Dp
2,2',5-Tricb (PCB 18)	0.0028	MG/KG_DRYWT	D	0.0016	MG/KG_DRYWT	D	0.00037	MG/KG_DRYWT	D	0.0012	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	0.008	MG/KG_DRYWT	D	0.0026	MG/KG_DRYWT	D	0.0013	MG/KG_DRYWT	D	0.0014	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	0.0066	MG/KG_DRYWT	D	0.0019	MG/KG_DRYWT	Dp	0.0002	MG/KG_DRYWT	UJ	0.0004	MG/KG_DRYWT	Dp
2,2',5,5'-Tetracb (PCB 52)	0.0097	MG/KG_DRYWT	D	0.0043	MG/KG_DRYWT	D	0.0028	MG/KG_DRYWT	Dp	0.0028	MG/KG_DRYWT	Dp
2,3',4,4'-Tetracb (PCB 66)	0.006	MG/KG_DRYWT	D	0.0022	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU
2,2',4,5,5'-Pentacb (PCB 101)	0.0064	MG/KG_DRYWT	D	0.0017	MG/KG_DRYWT	D	0.00021	MG/KG_DRYWT	Dp	0.0002	MG/KG_DRYWT	UJ
2,3,3',4,4'-Pentacb (PCB 105)	0.0012	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	UJ	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU
2,3',4,4',5-Pentacb (PCB 118)	0.009	MG/KG_DRYWT	D	0.0037	MG/KG_DRYWT	D	0.00099	MG/KG_DRYWT	D	0.0007	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.00033	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	UJ	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	0.004	MG/KG_DRYWT	D	0.0016	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU
2,2',4,4',5,5'-Hexacb (PCB 153)	0.0062	MG/KG_DRYWT	D	0.0018	MG/KG_DRYWT	D	0.00059	MG/KG_DRYWT	Dp	0.0002	MG/KG_DRYWT	UJ
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.00033	MG/KG_DRYWT	Dp	0.0002	MG/KG_DRYWT	UJ	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.00048	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	UJ	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.00026	MG/KG_DRYWT	Dp	0.0002	MG/KG_DRYWT	UJ	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU
Total MonoCB												
Total DiCB												
Total TriCB												
Total TetraCB												
Total PentaCB												
Total HexaCB												
Total HeptaCB												
Total OctaCB												
Total NonaCB												
DecaCB												
Total PCB Congeners (sum CONG x 2.6)	0.2	MG/KG_DRYWT		0.058	MG/KG_DRYWT		0.018	MG/KG_DRYWT		0.021	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)												

APPENDIX B

2007 Boat House Sediment PCB Analytical Results

Station ID	BH6			BH6			BH6			BH7		
Collection Date	11/29/07			11/29/07			11/29/07			11/29/07		
Fraction	TOTAL			TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA			SA		
Samp ID	S-07D-0BH6-00-10			S-07D-0BH6-10-20			S-07D-0BH6-20-30			S-07D-0BH7-00-10		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	5.299	MG/KG_DRYWT	D	0.221	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.509	MG/KG_DRYWT	Dp
2,2',5-Tricb (PCB 18)	9.822	MG/KG_DRYWT	D	0.221	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.401	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	19.28	MG/KG_DRYWT	D	0.221	MG/KG_DRYWT	DU	0.0078	MG/KG_DRYWT	D	0.866	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	12.31	MG/KG_DRYWT	D	4.096	MG/KG_DRYWT	D	0.012	MG/KG_DRYWT	D	0.561	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	19.94	MG/KG_DRYWT	D	11.23	MG/KG_DRYWT	D	0.025	MG/KG_DRYWT	D	1.153	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	7.558	MG/KG_DRYWT	D	3.254	MG/KG_DRYWT	D	0.02	MG/KG_DRYWT	Dp	0.414	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	6.118	MG/KG_DRYWT	D	9.067	MG/KG_DRYWT	D	0.019	MG/KG_DRYWT	Dp	0.777	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	1.35	MG/KG_DRYWT	D	0.221	MG/KG_DRYWT	DU	0.0086	MG/KG_DRYWT	D	0.19	MG/KG_DRYWT	D
2,3',4,4',5-Pentacb (PCB 118)	5.055	MG/KG_DRYWT	D	7.461	MG/KG_DRYWT	D	0.033	MG/KG_DRYWT	D	0.701	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.11	MG/KG_DRYWT	DU	0.221	MG/KG_DRYWT	DU	0.0037	MG/KG_DRYWT	D	0.102	MG/KG_DRYWT	D
2,2',3,4,4',5'-Hexacb (PCB 138)	3.079	MG/KG_DRYWT	D	3.958	MG/KG_DRYWT	D	0.016	MG/KG_DRYWT	D	0.54	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	4.347	MG/KG_DRYWT	D	6.839	MG/KG_DRYWT	D	0.019	MG/KG_DRYWT	D	0.722	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.11	MG/KG_DRYWT	DU	0.221	MG/KG_DRYWT	DU	0.0016	MG/KG_DRYWT	D	0.058	MG/KG_DRYWT	D
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.11	MG/KG_DRYWT	DU	0.221	MG/KG_DRYWT	DU	0.002	MG/KG_DRYWT	Dp	0.088	MG/KG_DRYWT	D
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.11	MG/KG_DRYWT	DU	0.221	MG/KG_DRYWT	DU	0.0028	MG/KG_DRYWT	Dp	0.053	MG/KG_DRYWT	D
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.11	MG/KG_DRYWT	DU	0.221	MG/KG_DRYWT	DU	0.0038	MG/KG_DRYWT	Dp	0.011	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.11	MG/KG_DRYWT	DU	0.221	MG/KG_DRYWT	DU	0.0091	MG/KG_DRYWT	D	0.018	MG/KG_DRYWT	D
Decacb - Congener (PCB 209)	0.11	MG/KG_DRYWT	DU	0.221	MG/KG_DRYWT	DU	0.0095	MG/KG_DRYWT	D	0.005	MG/KG_DRYWT	DpJ
Total MonoCB												
Total DiCB												
Total TriCB												
Total TetraCB												
Total PentaCB												
Total HexaCB												
Total HeptaCB												
Total OctaCB												
Total NonaCB												
DecaCB												
Total PCB Congeners (sum CONG x 2.6)	250	MG/KG_DRYWT		120	MG/KG_DRYWT		0.5	MG/KG_DRYWT		19	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)												

APPENDIX B

2007 Boat House Sediment PCB Analytical Results

Station ID	BH7			BH7			BH10			BH10		
Collection Date	11/29/07			11/29/07			11/29/07			11/29/07		
Fraction	TOTAL			TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA			SA		
Samp ID	S-07D-0BH7-10-20			S-07D-0BH7-20-30			S-07D-BH10-00-10			S-07D-BH10-10-20		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	0.002	MG/KG_DRYWT	Dp	0.00019	MG/KG_DRYWT	DU	0.419	MG/KG_DRYWT	Dp	0.011	MG/KG_DRYWT	DU
2,2',5-Tricb (PCB 18)	0.0048	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.569	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU
2,4,4'-Tricb (PCB 28)	0.0082	MG/KG_DRYWT	D	0.00082	MG/KG_DRYWT	Dp	1.223	MG/KG_DRYWT	D	0.035	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	0.0062	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.847	MG/KG_DRYWT	D	0.019	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	0.016	MG/KG_DRYWT	D	0.0025	MG/KG_DRYWT	D	1.91	MG/KG_DRYWT	D	0.053	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.0054	MG/KG_DRYWT	D	0.0004	MG/KG_DRYWT	Dp	0.749	MG/KG_DRYWT	D	0.013	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	0.011	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	1.856	MG/KG_DRYWT	D	0.061	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.003	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.273	MG/KG_DRYWT	D	0.00088	MG/KG_DRYWT	DpJ
2,3',4,4',5-Pentacb (PCB 118)	0.012	MG/KG_DRYWT	D	0.00084	MG/KG_DRYWT	Dp	1.67	MG/KG_DRYWT	D	0.061	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.0019	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.165	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	0.009	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	DU	0.842	MG/KG_DRYWT	D	0.029	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	0.012	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	1.23	MG/KG_DRYWT	D	0.041	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.00086	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.096	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.0014	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.152	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.00071	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.1	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.0004	MG/KG_DRYWT	Dp	0.00019	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.0009	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.00089	MG/KG_DRYWT	Dp	0.00019	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU
Total MonoCB												
Total DiCB												
Total TriCB												
Total TetraCB												
Total PentaCB												
Total HexaCB												
Total HeptaCB												
Total OctaCB												
Total NonaCB												
DecaCB												
Total PCB Congeners (sum CONG x 2.6)	0.25	MG/KG_DRYWT		0.012	MG/KG_DRYWT		32	MG/KG_DRYWT		0.82	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)												

APPENDIX B

2007 Boat House Sediment PCB Analytical Results

Station ID	BH10			BH4			BH4			BH4		
Collection Date	11/29/07			11/30/07			11/30/07			11/30/07		
Fraction	TOTAL			TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA			SA		
Samp ID	S-07D-BH10-20-28			S-07D-0BH4-00-10			S-07D-0BH4-10-20			S-07D-0BH4-20-30		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	0.002	MG/KG_DRYWT	Dp	0.214	MG/KG_DRYWT	D	0.071	MG/KG_DRYWT	D	0.031	MG/KG_DRYWT	Dp
2,2',5-Tricb (PCB 18)	0.0014	MG/KG_DRYWT	D	0.474	MG/KG_DRYWT	D	0.196	MG/KG_DRYWT	D	0.076	MG/KG_DRYWT	D
2,4,4'-Tricb (PCB 28)	0.0018	MG/KG_DRYWT	D	1.076	MG/KG_DRYWT	D	0.37	MG/KG_DRYWT	D	0.214	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	0.00053	MG/KG_DRYWT	Dp	0.756	MG/KG_DRYWT	D	0.234	MG/KG_DRYWT	D	0.121	MG/KG_DRYWT	D
2,2',5,5'-Tetracb (PCB 52)	0.0024	MG/KG_DRYWT	Dp	1.103	MG/KG_DRYWT	D	0.328	MG/KG_DRYWT	D	0.159	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.00019	MG/KG_DRYWT	DU	0.927	MG/KG_DRYWT	D	0.223	MG/KG_DRYWT	D	0.171	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	0.00019	MG/KG_DRYWT	DU	1.655	MG/KG_DRYWT	D	0.311	MG/KG_DRYWT	D	0.24	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.00019	MG/KG_DRYWT	DU	0.575	MG/KG_DRYWT	D	0.078	MG/KG_DRYWT	D	0.055	MG/KG_DRYWT	D
2,3',4,4',5-Pentacb (PCB 118)	0.0007	MG/KG_DRYWT	Dp	1.647	MG/KG_DRYWT	D	0.23	MG/KG_DRYWT	D	0.198	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.00019	MG/KG_DRYWT	DU	0.281	MG/KG_DRYWT	D	0.023	MG/KG_DRYWT	D	0.012	MG/KG_DRYWT	D
2,2',3,4,4',5'-Hexacb (PCB 138)	0.00019	MG/KG_DRYWT	DU	1.469	MG/KG_DRYWT	D	0.184	MG/KG_DRYWT	D	0.153	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	0.00019	MG/KG_DRYWT	DU	1.657	MG/KG_DRYWT	Dp	0.212	MG/KG_DRYWT	Dp	0.19	MG/KG_DRYWT	Dp
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.00019	MG/KG_DRYWT	DU	0.151	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.00019	MG/KG_DRYWT	DU	0.184	MG/KG_DRYWT	D	0.0023	MG/KG_DRYWT	DpJ	0.00053	MG/KG_DRYWT	DpJ
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.00019	MG/KG_DRYWT	DU	0.073	MG/KG_DRYWT	D	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.00019	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.00019	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.00019	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU	0.011	MG/KG_DRYWT	DU
Total MonoCB												
Total DiCB												
Total TriCB												
Total TetraCB												
Total PentaCB												
Total HexaCB												
Total HeptaCB												
Total OctaCB												
Total NonaCB												
DecaCB												
Total PCB Congeners (sum CONG x 2.6)	0.023	MG/KG_DRYWT		32	MG/KG_DRYWT		6.4	MG/KG_DRYWT		4.2	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)												

APPENDIX B

2007 Boat House Sediment PCB Analytical Results

Station ID	BH5			BH5			BH5			BH8		
Collection Date	11/30/07			11/30/07			11/30/07			11/30/07		
Fraction	TOTAL			TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA			SA		
Samp ID	S-07D-0BH5-00-10			S-07D-0BH5-10-20			S-07D-0BH5-20-30			S-07D-0BH8-00-10		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
2,4'-Dicb (PCB 8)	0.458	MG/KG_DRYWT	D	0.0048	MG/KG_DRYWT	D	0.00076	MG/KG_DRYWT	Dp	0.01	MG/KG_DRYWT	DU
2,2',5-Tricb (PCB 18)	0.778	MG/KG_DRYWT	D	0.0098	MG/KG_DRYWT	D	0.0011	MG/KG_DRYWT	D	0.02	MG/KG_DRYWT	Dp
2,4,4'-Tricb (PCB 28)	1.248	MG/KG_DRYWT	D	0.018	MG/KG_DRYWT	D	0.0021	MG/KG_DRYWT	D	0.091	MG/KG_DRYWT	D
2,2',3,5'-Tetracb (PCB 44)	0.936	MG/KG_DRYWT	D	0.012	MG/KG_DRYWT	D	0.0011	MG/KG_DRYWT	D	0.057	MG/KG_DRYWT	Dp
2,2',5,5'-Tetracb (PCB 52)	2.041	MG/KG_DRYWT	D	0.021	MG/KG_DRYWT	D	0.0035	MG/KG_DRYWT	Dp	0.121	MG/KG_DRYWT	D
2,3',4,4'-Tetracb (PCB 66)	0.825	MG/KG_DRYWT	D	0.014	MG/KG_DRYWT	D	0.0024	MG/KG_DRYWT	Dp	0.083	MG/KG_DRYWT	D
2,2',4,5,5'-Pentacb (PCB 101)	1.59	MG/KG_DRYWT	D	0.016	MG/KG_DRYWT	D	0.00087	MG/KG_DRYWT	D	0.056	MG/KG_DRYWT	D
2,3,3',4,4'-Pentacb (PCB 105)	0.228	MG/KG_DRYWT	D	0.004	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.013	MG/KG_DRYWT	Dp
2,3',4,4',5-Pentacb (PCB 118)	1.091	MG/KG_DRYWT	D	0.018	MG/KG_DRYWT	D	0.0021	MG/KG_DRYWT	D	0.057	MG/KG_DRYWT	D
2,2',3,3',4,4'-Hexacb (PCB 128)	0.121	MG/KG_DRYWT	D	0.0016	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.01	MG/KG_DRYWT	DU
2,2',3,4,4',5'-Hexacb (PCB 138)	0.652	MG/KG_DRYWT	D	0.0099	MG/KG_DRYWT	D	0.00051	MG/KG_DRYWT	D	0.032	MG/KG_DRYWT	D
2,2',4,4',5,5'-Hexacb (PCB 153)	0.95	MG/KG_DRYWT	D	0.015	MG/KG_DRYWT	D	0.00084	MG/KG_DRYWT	D	0.035	MG/KG_DRYWT	D
2,2',3,3',4,4',5-Heptacb (PCB 170)	0.117	MG/KG_DRYWT	D	0.0011	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.01	MG/KG_DRYWT	DU
2,2',3,4,4',5,5'-Heptacb (PCB 180)	0.133	MG/KG_DRYWT	D	0.0016	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.01	MG/KG_DRYWT	DU
2,2',3,4',5,5',6-Heptacb (PCB 187)	0.075	MG/KG_DRYWT	D	0.001	MG/KG_DRYWT	D	0.00019	MG/KG_DRYWT	DU	0.01	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,6-Octacb (PCB 195)	0.0068	MG/KG_DRYWT	DpJ	0.0002	MG/KG_DRYWT	DU	0.00019	MG/KG_DRYWT	DU	0.01	MG/KG_DRYWT	DU
2,2',3,3',4,4',5,5',6-Nonacb (PCB 206)	0.012	MG/KG_DRYWT	D	0.0002	MG/KG_DRYWT	DU	0.00019	MG/KG_DRYWT	DU	0.01	MG/KG_DRYWT	DU
Decacb - Congener (PCB 209)	0.011	MG/KG_DRYWT	DU	0.0002	MG/KG_DRYWT	DU	0.00019	MG/KG_DRYWT	DU	0.01	MG/KG_DRYWT	DU
Total MonoCB										0.042	MG/KG_DRYWT	U
Total DiCB										0.038	MG/KG_DRYWT	J
Total TriCB										0.405	MG/KG_DRYWT	
Total TetraCB										0.827	MG/KG_DRYWT	
Total PentaCB										0.669	MG/KG_DRYWT	
Total HexaCB										0.222	MG/KG_DRYWT	J
Total HeptaCB										0.048	MG/KG_DRYWT	J
Total OctaCB										0.209	MG/KG_DRYWT	U
Total NonaCB										0.063	MG/KG_DRYWT	U
DecaCB										0.021	MG/KG_DRYWT	DU
Total PCB Congeners (sum CONG x 2.6)	29	MG/KG_DRYWT		0.38	MG/KG_DRYWT		0.04	MG/KG_DRYWT		1.5	MG/KG_DRYWT	
Total PCB Homologues (sum HOM)										2.2	MG/KG_DRYWT	

Qualifiers:

D	Result from dilution run. Result from initial run outside linear range of instrument
J	Result is estimated. Analyte detected below the sample specific reporting limit
U	Analyte not detected at the sample specific reporting limit
p	Relative percent difference (RPD) between values obtained from the dual columns is >40%

Appendix C

VOC Analytical Data

This page intentionally left blank

APPENDIX C

2007 Post-Dredge Sediment VOC Analytical Results

Station ID	AA22-F07			AA22					
Collection Date			12/11/07			12/11/07			12/11/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			REP			TB		
Samp ID	S-07D-AA22-02-03			S-07D-AA22-02-03-REP			Trip Blank		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Acetone	0.155	MG/KG_DRYWT	UJ	0.265	MG/KG_DRYWT	U	0.028	MG/KG_DRYWT	
Benzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Bromobenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Bromodichloromethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Bromoform	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Bromomethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Carbon Disulfide	0.014	MG/KG_DRYWT		0.021	MG/KG_DRYWT		0.002	MG/KG_DRYWT	U
Carbon Tetrachloride	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Chlorobenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Chloroethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Chloroform	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Chloromethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Cis-1,2-Dichloroethene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Cis-1,3-Dichloropropene	0.0035	MG/KG_DRYWT	R	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Dibromochloromethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Dibromomethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Dichlorodifluoromethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Ethylbenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Hexachlorobutadiene	0.0035	MG/KG_DRYWT	R	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Isopropylbenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Methylene Chloride	0.0088	MG/KG_DRYWT	UJ	0.0094	MG/KG_DRYWT	U	0.0015	MG/KG_DRYWT	j
Methyl-Tert-Butyl-Ether (Mtbe)	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Naphthalene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
N-Butylbenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
N-Propylbenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
O-Xylene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
P-Isopropyltoluene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
P/M Xylene	0.007	MG/KG_DRYWT	UJ	0.0075	MG/KG_DRYWT	U	0.004	MG/KG_DRYWT	U
Sec-Butylbenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Styrene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Tert-Butylbenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Tetrachloroethene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Toluene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Trans-1,2-Dichloroethene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Trans-1,3-Dichloropropene	0.0035	MG/KG_DRYWT	R	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Trichloroethene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Trichlorofluoromethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U

APPENDIX C

2007 Post-Dredge Sediment VOC Analytical Results

Station ID	AA22-F07			AA22					
Collection Date		12/11/07			12/11/07			12/11/07	
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			REP			TB		
Samp ID	S-07D-AA22-02-03			S-07D-AA22-02-03-REP			Trip Blank		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Vinyl Acetate	0.0035	MG/KG_DRYWT	R	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
Vinyl Chloride	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,1-Dichloroethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,1-Dichloroethene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,1-Dichloropropene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,1,1-Trichloroethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,1,1,2-Tetrachloroethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,1,2-Trichloroethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,1,2,2-Tetrachloroethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,2-Dibromoethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,2-Dibromo-3-Chloropropane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,2-Dichlorobenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,2-Dichloroethane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,2-Dichloropropane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,2,3-Trichlorobenzene	0.0035	MG/KG_DRYWT	R	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,2,3-Trichloropropane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,2,4-Trichlorobenezene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	UJ	0.002	MG/KG_DRYWT	U
1,2,4-Trimethylbenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,3-Dichlorobenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,3-Dichloropropane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,3,5-Trimethylbenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
1,4-Dichlorobenzene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
2-Butanone	0.029	MG/KG_DRYWT		0.051	MG/KG_DRYWT		0.002	MG/KG_DRYWT	U
2-Chloroethyl Vinyl Ether	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
2-Chlorotoluene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
2-Hexanone	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
2,2-Dichloropropane	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
4-Chlorotoluene	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U
4-Methyl-2-Pentanone	0.0035	MG/KG_DRYWT	UJ	0.0038	MG/KG_DRYWT	U	0.002	MG/KG_DRYWT	U

Qualifiers:

J	Result is estimated
R	Result is rejected
U	Analyte not detected at the sample specific reporting limit

This page intentionally left blank

Appendix D

Grain Size and Total Organic Carbon Analytical Data

This page intentionally left blank

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	N14-F07			I1			I4-F07		
Collection Date			11/5/07			11/6/07			11/6/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-0N14-00-05			S-07D-00I1-00-05			S-07D-00I4-00-07		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	24.29	PCT		29.35	PCT		30.66	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	53.83	PCT		58.42	PCT		48.22	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	21.88	PCT		12.23	PCT		21.12	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	0	PCT		0	PCT		0	PCT	
Total Organic Carbon (TOC)	8.28	PCT		9.49	PCT		7.55	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	K2			N4-F07			O1		
Collection Date			11/6/07			11/6/07			11/6/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-00K2-00-08			S-07D-00N4-00-06			S-07D-00O1-00-06		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	21.75	PCT		20.63	PCT		26.51	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	35.86	PCT		58.39	PCT		40.24	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	42.39	PCT		20.98	PCT		33.25	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	0	PCT		0	PCT		0	PCT	
Total Organic Carbon (TOC)	5.2	PCT		6.71	PCT		10.02	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	Q9			J14			K5		
Collection Date			11/6/07			11/6/07			11/8/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-00Q9-00-05			S-07D-0J14-00-06			S-07D-00K5-00-06		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	30.05	PCT		24.94	PCT		23.93	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	57.52	PCT		62.11	PCT		47.93	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	12.43	PCT		12.95	PCT		27.51	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	0	PCT		0	PCT		0.63	PCT	
Total Organic Carbon (TOC)	7.61	PCT		7.99	PCT		8.21	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	J10			J10			K21		
Collection Date	11/8/07			11/8/07			11/8/07		
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	REP			SA			SA		
Samp ID	S-07D-0J10-00-07-REP			S-07D-0J10-00-07			S-07D-0K21-00-12		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	26.04	PCT		22.31	PCT		25.82	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	61.14	PCT		55.13	PCT		47.53	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	11.16	PCT		22.56	PCT		26.65	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	1.66	PCT		0	PCT		0	PCT	
Total Organic Carbon (TOC)	11.02	PCT		8.65	PCT		3.9	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	M17			WW24			WW41		
Collection Date			11/8/07			11/14/07			11/14/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-0M17-00-06			S-07D-WW24-00-08			S-07D-WW41-00-06		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	26.28	PCT		31.25	PCT		12.82	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	57.62	PCT		38.45	PCT		20.67	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	16.1	PCT		30.2	PCT		63.14	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	0	PCT		0.1	PCT		3.37	PCT	
Total Organic Carbon (TOC)	7.74	PCT		4.97	PCT		2.64	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	YY32			BBB23			OO26		
Collection Date			11/14/07			11/16/07			11/16/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-YY32-00-02			S-07D-BBB23-00-09			S-07D-OO26-00-07		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	14.46	PCT		2.89	PCT		35.79	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	15.98	PCT		4.17	PCT		46.42	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	66.82	PCT		86.07	PCT		15.59	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	2.74	PCT		6.87	PCT		2.2	PCT	
Total Organic Carbon (TOC)	1.56	PCT		0.57	PCT		6.04	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	OO32			OO38			SS29		
Collection Date			11/16/07			11/16/07			11/16/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-OO32-00-08			S-07D-OO38-00-05			S-07D-SS29-00-07		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	31.58	PCT		39.52	PCT		33.42	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	51.73	PCT		47.64	PCT		46.75	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	11.56	PCT		12.84	PCT		18.46	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	5.13	PCT		0	PCT		1.37	PCT	
Total Organic Carbon (TOC)	5.47	PCT		4.5	PCT		5.4	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	VV34			DD22			GG29		
Collection Date			11/16/07			11/20/07			11/20/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-VV34-00-10			S-07D-DD22-00-11			S-07D-GG29-00-06		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	37.06	PCT		32.77	PCT		34.42	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	45.99	PCT		59.36	PCT		48.65	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	16.95	PCT		7.87	PCT		16.93	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	0	PCT		0	PCT		0	PCT	
Total Organic Carbon (TOC)	6.38	PCT		8.7	PCT		10.64	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	GG33-F07			HH22			II25		
Collection Date	11/20/07			11/20/07			11/20/07		
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-GG33-00-06			S-07D-HH22-00-10			S-07D-II25-00-04		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	37.29	PCT		36.64	PCT		35.84	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	49.46	PCT		59.61	PCT		47.22	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	13.04	PCT		3.66	PCT		14.16	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	0.21	PCT		0.09	PCT		2.78	PCT	
Total Organic Carbon (TOC)	5.45	PCT		6.81	PCT		5.44	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	II36			KK32-F07			LL40		
Collection Date			11/20/07			11/20/07			11/20/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-II36-00-06			S-07D-KK32-00-09			S-07D-LL40-00-03		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	34.73	PCT		36.32	PCT		27.07	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	58.26	PCT		58.72	PCT		56.41	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	7.01	PCT		4.96	PCT		15.07	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	0	PCT		0	PCT		1.45	PCT	
Total Organic Carbon (TOC)	6.95	PCT		6.07	PCT		4.53	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	MM22			MM29			DD31-F07		
Collection Date			11/20/07			11/20/07			11/28/07
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			SA			SA		
Samp ID	S-07D-MM22-00-05			S-07D-MM29-00-09			S-07D-DD31-00-10		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	37	PCT		35.46	PCT		35.86	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	59.25	PCT		55.43	PCT		56.84	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	3.75	PCT		7.88	PCT		4.95	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	0	PCT		1.23	PCT		2.35	PCT	
Total Organic Carbon (TOC)	6.19	PCT		6.08	PCT		11.36	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	DD36			DD36			EE41		
Collection Date	11/28/07			11/28/07			11/28/07		
Fraction	TOTAL			TOTAL			TOTAL		
QC Code	SA			REP			SA		
Samp ID	S-07D-DD36-00-10			S-07D-DD36-00-11-REP			S-07D-EE41-00-14		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	36.04	PCT		34.05	PCT		40.24	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	59.14	PCT		61.67	PCT		54.23	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	4.82	PCT		3.65	PCT		5.53	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	0	PCT		0.63	PCT		0	PCT	
Total Organic Carbon (TOC)	12.5	PCT		11.6	PCT		11.47	PCT	

APPENDIX D

2007 Post-Dredge Sediment PCB Analytical Results

Station ID	AA22			AA22-F07		
Collection Date			12/11/07			12/11/07
Fraction	TOTAL			TOTAL		
QC Code	REP			SA		
Samp ID	S-07D-AA22-10-20-REP			S-07D-AA22-10-20		
Analyte	Result	Unit	FinQ	Result	Unit	FinQ
Ratio of clay to total sample wt (FRAC_CLAY).	25.4	PCT		26.77	PCT	
Ratio of silt to total sample wt (FRAC_SILT)	60.4	PCT		60.07	PCT	
Ratio of sand to total sample wt (FRAC_SAND)	14.2	PCT		13.16	PCT	
Ratio of gravel to total sample wt (FRAC_GRAV)	0	PCT		0	PCT	
Total Organic Carbon (TOC)	14.64	PCT		14.89	PCT	