APPENDIX A

Sampling Station Locations

Station Coordinates and Distance Measurements for Oakland Bay

Station ID	Grab (Longitude)	Grab (Latitude)	Core (Longitude)	Core (Latitude)	Distance Between Locations (feet)
HI-1	NA	NA	-123.06186478100	47.20341579850	NA
HI-2	-123.06265470800	47.20581639150	-123.06264309700	47.20580846400	4
HI-3	-123.07259705300	47.20655272470	-123.07261674400	47.20655199380	5
HI-4	-123.06715469400	47.20853458370	-123.06716775800	47.20852586990	5
HI-5	-123.07373601000	47.20906665470	NA	NA	NA
HI-6	-123.07100659800	47.21237601390	-123.07100083800	47.21238658340	4
HI-7	-123.07699091900	47.21443693790	-123.07700348500	47.21442568520	5
OB-01	-123.07887272400	47.21887562460	-123.07887912500	47.21887732460	2
OB-02	-123.07389820600	47.21931120310	-123.07387257200	47.21930204200	7
OB-03	-123.07006785400	47.21789463320	-123.07014404600	47.21789751920	19
OB-04	-123.07049568800	47.22478953330	-123.07051964900	47.22481564420	11
OB-05	-123.06252068000	47.22488778020	-123.06255589400	47.22491976580	15
OB-06	-123.05406788600	47.22245083040	-123.05409015000	47.22244292200	6
OB-07	-123.04333695300	47.22726002770	-123.04334092000	47.22727625020	6
OB-08	-123.03392214600	47.22344766410	-123.03392324800	47.22346465280	6
OB-09	-123.05593256200	47.23156738460	-123.05345334900	47.23156708660	0
OB-10	-123.04957508700	47.23761421800	-123.04956324000	47.23761663500	3
OB-11	-123.03303135400	47.24819012540	-123.03197266100	47.24797175140	275
OB-12	-123.03991156900	47.25071179150	-123.03987706600	47.25071754690	9
OB-12	-123.03991156900	47.25071179150	-123.03989479200	47.25069922410	6
OB-13	-123.03273395900	47.25315443220	-123.03280221600	47.25311188930	23
OB-14	-123.02082195100	47.25595244660	-123.02085843600	47.25590105910	21
OB-15	NA	NA	-123.06266431400	47.22252493930	NA
OB-16	NA	NA	-123.04827054700	47.23934280190	NA
OB-17	-123.08204120400	47.21575074100	-123.08202347900	47.21574911320	4
OB-18	-123.06920923300	47.21566621750	-123.06923457800	47.21566958710	6
OB-19	-123.05270579700	47.22642819030	-123.05272549600	47.22644244090	7
SH-01	-123.08389115200	47.21334477520	-123.08390129400	47.21335497520	4
SH-02	-123.08749854500	47.21349810910	-123.08751239600	47.21350524800	4
SH-03	-123.09010516200	47.21254176020	NA	NA	NA
SH-04	-123.09183859000	47.21270122450	-123.09174971200	47.21275481350	29
SH-05	-123.09186803800	47.21151916100	-123.09187754300	47.21151688890	3
SH-06	NA	NA	NA	NA	NA
SH-07	-123.08914280200	47.21023903320	-123.08914471100	47.21025962210	8
SH-08	NA	NA	-123.08909798000	47.21076343980	NA
SH-09	-123.08565440900	47.21065387270	-123.08575402000	47.21070792290	32
SH-10	-123.08325747900	47.21152197990	-123.08323576800	47.21157508540	20
SH-11	-123.09420286900	47.20798277340	-123.09419544300	47.20796617640	6
SH-12	-123.09411211500	47.20726145540	-123.09408099000	47.20733837220	29
SH-12	-123.09411211500	47.20726145540	-123.09404812400	47.20733070280	30
SH-13	-123.09281278800	47.20653855680	-123.09271726000	47.20635626150	71
SH-14	-123.08075899400	47.20874047970	-123.08077485800	47.20874931040	5
SH-15	-123.07722888900	47.21006334590	-123.07723804000	47.21010270710	15
SH-16	-123.07812231800	47.21360553360	-123.07811223500	47.21359558360	4
SH-17	NA	NA	-123.08636254400	47.21152052450	NA
SH-18	-123.09409762300	47.20872030020	-123.09409767900	47.20872030020	0
SH-19	-123.09242525100	47.20789361500	-123.09244809000	47.20788623740	6
SH-20	-123.09052937500	47.20688034320	-123.09048935500	47.20689392930	11
SH-21	-123.08969746500	47.20876542200	-123.08970996700	47.20877194160	4
SH-21	-123.08969746500	47.20876542200	-123.08965092000	47.20875413020	12
SH-22	-123.08682557900	47.20802185350	-123.08682309200	47.20804167870	7
SH-23	-123.08448272900	47.20827006810	-123.08448747400	47.20829185680	8
SH-24	-123.08446632700	47.20652846720	NA	NA	NA
SH-25	-123.08094422000	47.20698476490	NA	NA	NA
SH-26	-123.08992895400	47.21161791950	-123.08990835100	47.21160437220	7
SH-27	-123.08788647400	47.21217525930	-123.08778797400	47.21203765620	56
SH-28	-123.08197625700	47.21042360530	-123.08199411600	47.21042679150	0
SH-29	-123.07817573800	47.21187824130	-123.07813487700	47.21188009680	10
SH-30	-123.08401792200	47.21434825230	-123.08396491900	47.21433563550	14

Coordinates are in NAD 83.
NA No sample collected from this station

APPENDIX B

Sample Core Logs

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: HI-01-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 055
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/16/08 14:59
Date/Time Core Processed: 10/16/08 17:00
Latitude: 47.203416 Longitude: -123.061865
Core Penetration: 7 feet, 10 inches
Core Recovery (percent): 4 feet, 6 inches (57%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	HI-01-SC-01	1	Olive gray sandy GRAVEL, trace amounts of silt.	GW
No	HI-01-SC-12	2	Same as above.	
			Olive gray silty CLAY, very stiff.	CL
No	HI-01-SC-23	3	Same as above.	
No	HI-01-SC-34	4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: HI-01-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 055
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/16/08 14:59
Date/Time Core Processed: 10/16/08 17:00
Latitude: 47.203416 Longitude: -123.061865
Core Penetration: 7 feet, 10 inches
Core Recovery (percent): 4 feet, 6 inches (57%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Olive gray silty CLAY, very stiff.	CL
			Total core recovery 4 feet, 6 inches.	
		5		
		6		
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: HI-02-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 056
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/14/08 13:50
Date/Time Core Processed: 10/15/08 10:30
Latitude: 47.205808 Longitude: -123.062643
Core Penetration: 6 feet, 6 inches
Core Recovery (percent): 4 feet, 7 inches (70%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	HI-02-SC-01	1	Olive gray sandy SILT.	ML
No	HI-02-SC-12	2	Same as above.	
			Olive gray silty SAND, trace amounts of clay, abundant shell fragments.	SM
No	HI-02-SC-23	3	Same as above.	
			Olive gray sandy GRAVEL, trace amounts of silt, shell fragments.	GW
No	HI-02-SC-34	4	Same as above.	
			Olive gray clayey SILT, trace amounts of sand.	ML

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: HI-02-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 056
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/14/08 13:50
Date/Time Core Processed: 10/15/08 10:30
Latitude: 47.205808 Longitude: -123.062643
Core Penetration: 6 feet, 6 inches
Core Recovery (percent): 4 feet, 7 inches (70%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Olive gray clayey SILT, trace amounts of sand.	ML
			Total core recovery 4 feet, 7 inches.	
		5		
		6		
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: HI-03-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 057
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/14/08 14:35
Date/Time Core Processed: 10/14/08 15:40
Latitude: 47.206552 Longitude: -123.072617
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 6 feet, 11 inches (97%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 1% bark	HI-03-SC-01	1	Olive gray sandy SILT, trace amounts of clay, abundant shell fragments.	ML
No	HI-03-SC-12	2	Olive gray silty CLAY, trace amounts of gravel, shell fragments.	CL
No	HI-03-SC-23	3	Olive gray slightly silty CLAY, trace amounts of gravel.	
No	HI-03-SC-34	4	Olive gray slightly sandy CLAY, few shell fragments.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: HI-03-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 057
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/14/08 14:35
Date/Time Core Processed: 10/14/08 15:40
Latitude: 47.206552 Longitude: -123.072617
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 6 feet, 11 inches (97%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Olive gray slightly clayey SILT.	ML
No		6	Same as above.	
No		7	Same as above.	
		8	Total core recovery 6 feet, 11 inches.	

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SEDIMENT CORE LOG

Sample Station Number: HI-04-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 058
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/14/08 15:20
Date/Time Core Processed: 10/14/08 16:50
Latitude: 47.208526 Longitude: -123.067168
Core Penetration: 8 feet, 9 inches
Core Recovery (percent): 5 feet, 7 inches (64%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 5% bark	HI-04-SC-01	1	Olive gray silty SAND. Slight hydrogen sulfide odor present.	SM
Yes 1% bark	HI-04-SC-12	2	Olive gray silty SAND, few shell fragments. Slight hydrogen sulfide odor present.	
No	HI-04-SC-23	3	Olive gray silty SAND.	
Yes Less than 1% wood chips	HI-04-SC-34	4	Same as above, few shell fragments.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: HI-04-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 058
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/14/08 15:20
Date/Time Core Processed: 10/14/08 16:50
Latitude: 47.208526 Longitude: -123.067168
Core Penetration: 8 feet, 9 inches
Core Recovery (percent): 5 feet, 7 inches (64%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Olive gray silty SAND, abundant shell fragments.	SM
No			Olive gray silty CLAY.	CL
		6	Total core recovery 5 feet, 7 inches.	
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: HI-06-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 059
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/5/08 15:45
Date/Time Core Processed: 10/6/08 11:45
Latitude: 47.212386 Longitude: -123.071001
Core Penetration: 7 feet, 1 inch
Core Recovery (percent): 5 feet, 4 inches (75%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 5% bark	HI-06-SC-01	1	Dark gray to black gravelly SAND, trace amounts of silt, shell fragments. Slight hydrogen sulfide odor present.	SW
Yes 2% bark	HI-06-SC-12	2	Dark olive gray sandy GRAVEL, with cobbles, trace amounts of silt.	GW
No	HI-06-SC-23	3	Dark gray silty fine-grained, poorly-graded SAND, trace amounts of gravel.	SP
No	HI-06-SC-34	4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: HI-06-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 059
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/5/08 15:45
Date/Time Core Processed: 10/6/08 11:45
Latitude: 47.212386 Longitude: -123.071001
Core Penetration: 7 feet, 1 inch
Core Recovery (percent): 5 feet, 4 inches (75%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		0	Dark gray silty fine-grained poorly-graded SAND.	SP
No		5	Very dark gray fine- to coarse-grained SAND, trace amounts of gravel.	SW
		6	Total core recovery 5 feet, 4 inches.	
		7		
		8		

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SEDIMENT CORE LOG

Sample Station Number: HI-07-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 060
Date/Time Core Collected: 10/3/08 11:30
Date/Time Core Processed: 10/3/08 15:10
Latitude: 47.214426 Longitude: -123.077003
Core Penetration: 7 feet, 1 inch
Core Recovery (percent): 5 feet, 2 inches (73%)
Notes: Processed samples from one core attempt at this location.

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	HI-07-SC-01	1	Dark gray poorly-graded medium-grained SAND, shell fragments.	SP
Yes Less than 1% wood fibers	HI-07-SC-12	2	Same as above.	
No	HI-07-SC-23	3	Same as above.	
No	HI-07-SC-34	4	Same as above.	
			Dark olive gray silty CLAY, occasional shell fragment. Hydrogen sulfide odor present.	CL

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: HI-07-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 060
Date/Time Core Collected: 10/3/08 11:30
Date/Time Core Processed: 10/3/08 15:10
Latitude: 47.21442647 Longitude: -123.077003
Core Penetration: 7 feet, 1 inch
Core Recovery (percent): 5 feet, 2 inches (73%)
Notes: Processed samples from one core attempt at this location.

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Dark olive gray silty CLAY.	CL
		6	Total core recovery 5 feet, 2 inches.	
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-01-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 032
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/3/08 13:43
Date/Time Core Processed: 10/3/08 16:00
Latitude: 47.218877 Longitude: -123.078879
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 5 feet, 3 inches (73%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-01-SC-01	1	Dark gray sandy GRAVEL, shell fragments.	GW
No	OB-01-SC-12	2	Same as above.	
Yes Less than 1% bark	OB-01-SC-23	3	Same as above.	
No	OB-01-SC-34	4	Same as above.	
			Dark olive gray sandy SILT, trace amounts of gravel.	ML

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-01-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 032
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/3/08 13:43
Date/Time Core Processed: 10/3/08 16:00
Latitude: 47.218877 Longitude: -123.078879
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 5 feet, 3 inches (73%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Dark olive gray gravelly SAND with silt, shell fragments. Hydrogen sulfide odor present.	SW
No		5	Brown clayey SILT. Hydrogen sulfide odor present.	ML
		6	Total core recovery 5 feet, 3 inches.	
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-02-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 033
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/3/08 11:01
Date/Time Core Processed: 10/3/08 13:25
Latitude: 47.219302 Longitude: -123.073872
Core Penetration: 8 feet
Core Recovery (percent): 7 feet, 3 inches (91%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 1% bark	OB-02-SC-01	1	Dark olive gray clayey SILT, trace amounts of sand, shell fragments. Hydrogen sulfide odor present.	ML
Yes Less than 1% bark	OB-02-SC-12	2	Same as above.	
No	OB-02-SC-23	3	Same as above.	
Yes Less than 1% bark	OB-02-SC-34	4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-02-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 033
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/3/08 11:01
Date/Time Core Processed: 10/3/08 13:25
Latitude: 47.219302 Longitude: -123.073872
Core Penetration: 8 feet
Core Recovery (percent): 7 feet, 3 inches (91%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 1% bark			Dark olive gray clayey SILT, trace amounts of sand, shell fragments. Hydrogen sulfide odor present.	ML
		5		
No			Same as above.	
		6		
No			Same as above.	
		7		
No			Same as above.	
			Total core recovery 7 feet, 3 inches.	
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-03-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 034
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/3/08 10:08
Date/Time Core Processed: 10/3/08 11:25
Latitude: 47.217897 Longitude: -123.070144
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 6 feet (84%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-03-SC-01	1	Dark olive gray clayey SILT, trace amounts of sand, shell fragments. Hydrogen sulfide odor present.	ML
No	OB-03-SC-12	2	Same as above.	
No	OB-03-SC-23	3	Dark olive gray silty CLAY, trace amounts of sand, shell fragments. Hydrogen sulfide odor present.	CL
No	OB-03-SC-34	4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-03-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 034
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/3/08 10:08
Date/Time Core Processed: 10/3/08 11:25
Latitude: 47.217897 Longitude: -123.070144
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 6 feet (84%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Dark olive gray silty CLAY, trace amounts of sand, shell fragments. Hydrogen sulfide odor present.	CL
No		6	Same as above.	
		7	Total core recovery 6 feet.	
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-04-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 035
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/4/08 10:20
Date/Time Core Processed: 10/4/08 11:40
Latitude: 47.224816 Longitude: -123.070519
Core Penetration: 7 feet, 3 inches
Core Recovery (percent): 5 feet, 3 inches (72%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 15% bark	OB-04-SC-01	1	Olive gray clayey SILT, trace amounts of sand, shell fragments. Hydrogen sulfide odor present.	ML
No	OB-04-SC-12	2	Olive gray clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	
No	OB-04-SC-23	3	Olive gray silty CLAY. Hydrogen sulfide odor present.	CL
No	OB-04-SC-34	4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-04-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 035
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/4/08 10:20
Date/Time Core Processed: 10/4/08 11:40
Latitude: 47.224816 Longitude: -123.070519
Core Penetration: 7 feet, 3 inches
Core Recovery (percent): 5 feet, 3 inches (72%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Olive gray silty CLAY. Hydrogen sulfide odor present.	CL
		6 7 8	Total core recovery 5 feet, 3 inches.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-05-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 036
Notes: Processed samples from third core of three attempts.

Date/Time Core Collected: 10/4/08 12:20
Date/Time Core Processed: 10/4/08 16:55
Latitude: 47.224919 Longitude: -123.062555
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 5 feet, 1 inch (71%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-05-SC-01	1	Olive gray clayey SILT, trace amounts of sand, shell fragments. Hydrogen sulfide odor present.	ML
No	OB-05-SC-12	2	Same as above.	
No	OB-05-SC-23	3	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.	CL
No	OB-05-SC-34	4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-05-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 036
Notes: Processed samples from third core of three attempts.

Date/Time Core Collected: 10/4/08 12:20
Date/Time Core Processed: 10/4/08 16:55
Latitude: 47.224919 Longitude: -123.062555
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 5 feet, 1 inch (71%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.	CL
		6	Total core recovery 5 feet, 1 inch.	
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-06-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 037
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/5/08 13:47
Date/Time Core Processed: 10/5/08 16:45
Latitude: 47.222443 Longitude: -123.054090
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 6 feet, 8.5 inches (94%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-06-SC-01	1	Dark olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.	ML
No	OB-06-SC-12	2	Dark olive gray clayey SILT. Hydrogen sulfide odor present.	
Yes Less than 1% bark	OB-06-SC-23	3	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.	CL
Yes Less than 1% bark	OB-06-SC-34	4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-06-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 037
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/5/08 13:47
Date/Time Core Processed: 10/5/08 16:45
Latitude: 47.222443 Longitude: -123.054090
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 6 feet, 8.5 inches (94%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.	CL
		5		
No			Same as above.	
		6		
No			Same as above.	
			Total core recovery 6 feet, 8.5 inches.	
		7		
		8		

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SEDIMENT CORE LOG

Sample Station Number: OB-07-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 038
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/15/08 16:30
Date/Time Core Processed: 10/16/08 08:00
Latitude: 47.227276 Longitude: -123.043341
Core Penetration: 7 feet, 8 inches
Core Recovery (percent): 6 feet, 7 inches (86%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-07-SC-01		Olive gray slightly sandy SILT, trace amounts of clay.	ML
		1	Olive gray sandy SILT, trace amounts of gravel, abundant shell fragments.	ML
No	OB-07-SC-12	2	Olive gray sandy GRAVEL, abundant shell fragments.	GW
Yes Less than 1% bark	OB-07-SC-23	3	Olive gray sandy SILT, few shell fragments.	ML
Yes 20% bark	OB-07-SC-34	4	Olive gray sandy SILT, trace amounts of gravel, abundant shell fragments.	

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SEDIMENT CORE LOG

Sample Station Number: OB-07-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 038
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/15/08 16:30
Date/Time Core Processed: 10/16/08 08:00
Latitude: 47.227276 Longitude: -123.043341
Core Penetration: 7 feet, 8 inches
Core Recovery (percent): 6 feet, 7 inches (86%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Olive gray gravelly SILT, trace amounts of sand.	ML
No		5	Olive gray silty CLAY.	CL
No		6	Olive gray clayey SILT, trace amounts of fine-grained sand.	ML
		7	Total core recovery 6 feet, 7 inches.	
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-08-SC

Sheet 1 of 1

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 039
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/15/08 17:10
Date/Time Core Processed: 10/16/08 10:15
Latitude: 47.223464 Longitude: -123.033923
Core Penetration: 4 feet, 7 inches
Core Recovery (percent): 4 feet (87%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 1% bark	OB-08-SC-01	1	Olive gray sandy SILT, trace amounts of clay.	ML
No	OB-08-SC-12	2	Olive gray silty CLAY.	CL
No	OB-08-SC-23	3	Mottled olive gray and brown silty CLAY, very stiff.	
No	OB-08-SC-34	4	Same as above.	
			Total core recovery 4 feet.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-09-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 040
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/5/08 11:38
Date/Time Core Processed: 10/5/08 13:30
Latitude: 47.231567 Longitude: -123.053453
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 5 feet (70%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-09-SC-01	1	Dark olive gray clayey SILT. Hydrogen sulfide odor present.	ML
No	OB-09-SC-12	2	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.	CL
No	OB-09-SC-23	3	Same as above.	
No	OB-09-SC-34	4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-09-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 040
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/5/08 11:38
Date/Time Core Processed: 10/5/08 13:30
Latitude: 47.231567 Longitude: -123.053453
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 5 feet (70%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.	CL
		6	Total core recovery 5 feet.	
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-10-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 041
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/5/08 10:55
Date/Time Core Processed: 10/5/08 11:50
Latitude: 47.237616 Longitude: -123.049563
Core Penetration: 7 feet, 1 inch
Core Recovery (percent): 5 feet, 1 inch (72%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-10-SC-01	1	Dark olive gray clayey SILT. Hydrogen sulfide odor present.	ML
No	OB-10-SC-12	2	Same as above, shell fragments.	
Yes Less than 1% bark	OB-10-SC-23	3	Olive gray clayey SILT. Hydrogen sulfide odor present.	
No	OB-10-SC-34	4	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.	CL

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SEDIMENT CORE LOG

Sample Station Number: OB-10-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 041
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/5/08 10:55
Date/Time Core Processed: 10/5/08 11:50
Latitude: 47.237616 Longitude: -123.049563
Core Penetration: 7 feet, 1 inch
Core Recovery (percent): 5 feet, 1 inch (72%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.	CL
		6	Total core recovery 5 feet, 1 inch.	
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-11-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 042
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/7/08 14:45
Date/Time Core Processed: 10/8/08 09:40
Latitude: 47.247972 Longitude: -123.031972
Core Penetration: 6 feet, 7 inches
Core Recovery (percent): 4 feet, 4 inches (66%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-11-SC-01	1	Dark olive gray slightly silty, gravelly SAND, abundant shell fragments.	SM
Yes Less than 1% bark	OB-11-SC-12	2	Same as above.	
No	OB-11-SC-23	3	Same as above.	
No	OB-11-SC-34	4	Same as above. Hydrogen sulfide odor present.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-11-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 042
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/7/08 14:45
Date/Time Core Processed: 10/8/08 09:40
Latitude: 47.247972 Longitude: -123.031972
Core Penetration: 6 feet, 7 inches
Core Recovery (percent): 4 feet, 4 inches (66%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Dark olive gray slightly silty, gravelly SAND, abundant shell fragments.	SM
			Total core recovery 4 feet, 4 inches.	
		5		
		6		
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-12-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 043 and 044
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/4/08 14:35
Date/Time Core Processed: 10/4/08 16:00
Latitude: 47.250699 Longitude: -123.039894
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 5 feet, 1 inch (71%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-12-SC-01	1	Olive gray clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes Less than 5% bark	OB-12-SC-12	2	Same as above.	
No	OB-12-SC-23	3	Olive gray silty CLAY.	CL
Yes 75% sawdust	OB-12-SC-34	4	Same as above.	
			Olive gray silty CLAY.	CL

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-12-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 043 and 044
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/4/08 14:35
Date/Time Core Processed: 10/4/08 16:00
Latitude: 47.250699 Longitude: -123.039894
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 5 feet, 1 inch (71%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 100% sawdust		5	Sawdust.	
		6 7 8	Total core recovery 5 feet, 1 inch.	

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SEDIMENT CORE LOG

Sample Station Number: OB-12-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 045 and 046
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/20/08 13:55
Date/Time Core Processed: 10/20/08 15:10
Latitude: 47.250699 Longitude: -123.039895
Core Penetration: 11 feet, 9 inches
Core Recovery (percent): 9 feet, 2 inches (78%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		1	Olive gray silty CLAY. Hydrogen sulfide odor present.	CL
Yes 5% bark		2	Same as above.	
No		3	Same as above.	
No		4	Same as above.	

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SEDIMENT CORE LOG

Sample Station Number: OB-12-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 045 and 046
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/20/08 13:55
Date/Time Core Processed: 10/20/08 15:10
Latitude: 47.250699 Longitude: -123.039895
Core Penetration: 11 feet, 9 inches
Core Recovery (percent): 9 feet, 2 inches (78%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 50% sawdust	OB-12-SC-45	5	Olive gray silty CLAY.	CL
Yes 75% sawdust	OB-12-SC-56	6	Same as above.	
Yes 90% sawdust	OB-12-SC-67	7	Same as above.	
Yes 100% sawdust		8	Sawdust.	

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SEDIMENT CORE LOG

Sample Station Number: OB-12-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 045 and 046
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/20/08 13:55
Date/Time Core Processed: 10/20/08 15:10
Latitude: 47.250699 Longitude: -123.039895
Core Penetration: 11 feet, 9 inches
Core Recovery (percent): 9 feet, 2 inches (78%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 100% sawdust		9	Sawdust.	
		10 11 12	Total core recovery 9 feet, 2 inches.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-13-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 047
Notes: Processed samples from third core of three attempts.

Date/Time Core Collected: 10/7/08 16:15
Date/Time Core Processed: 10/8/08 10:40
Latitude: 47.253112 Longitude: -123.032802
Core Penetration: 4 feet, 7 inches
Core Recovery (percent): 2 feet, 10 inches (62%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-13-SC-01	0	Very dark olive gray to black slighty clayey, gravelly SILT, trace amounts of sand.	ML
		1		
Yes Less than 1% bark	OB-13-SC-12	1	Olive gray clayey SILT, trace amounts of sand., shell fragments.	ML
		2		
No	OB-13-SC-23	2	Same as above. Slight hydrogen sulfide odor present.	
		3	Total core recovery 2 feet, 10 inches.	
		4		

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SEDIMENT CORE LOG

Sample Station Number: OB-14-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 048
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/7/08 14:00
Date/Time Core Processed: 10/7/08 17:10
Latitude: 47.255901 Longitude: -123.020858
Core Penetration: 7 feet, 8 inches
Core Recovery (percent): 5 feet, 3 inches (68%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-14-SC-01	1	Olive gray clayey SILT, trace amounts of sand.	ML
Yes Less than 1% bark	OB-14-SC-12	2	Same as above.	
			Olive gray silty SAND.	SM
No	OB-14-SC-23	3	Same as above.	
			Olive gray silty CLAY.	CL
			Olive gray fine- to coarse-grained SAND, trace amounts of silt.	SW
No	OB-14-SC-34	4	Same as above.	
			Olive gray gravelly SAND, trace amounts of silt and twigs, shell fragments.	SW

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-14-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 048
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/7/08 14:00
Date/Time Core Processed: 10/7/08 17:10
Latitude: 47.255901 Longitude: -123.020858
Core Penetration: 7 feet, 8 inches
Core Recovery (percent): 5 feet, 3 inches (68%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Alternating layers of olive gray SILT, trace amounts of clay and brown SILT, trace amounts of clay and twigs.	ML
		6 7 8	Total core recovery 5 feet, 3 inches.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-15-RI

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 049

Date/Time Core Collected: 10/16/08 10:04
Date/Time Core Processed: 10/16/08 11:45
Latitude: 47.222525 Longitude: -123.062664
Core Penetration: 8 feet, 2 inches
Core Recovery (percent): 7 feet, 6 inches (92%)

Notes: Processed samples from one core attempt at this location. Samples collected every 3-centimeter intervals to 4 feet.

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		1	Olive gray silty CLAY, occasional shell fragments.	CL
No		2	Same as above.	
			Hydrogen sulfide odor present.	
No		3	Same as above.	
No		4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-15-RI

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 049

Date/Time Core Collected: 10/16/08 10:04
Date/Time Core Processed: 10/16/08 11:45
Latitude: 47.222525 Longitude: -123.062664
Core Penetration: 8 feet, 2 inches
Core Recovery (percent): 7 feet, 6 inches (92%)

Notes: Processed samples from one core attempt at this location. Samples collected every 3-centimeter intervals to 4 feet.

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Olive gray silty CLAY, occasional shell fragments.	CL
		5		
No			Same as above.	
		6		
No			Same as above.	
		7		
No			Same as above.	
			Total core recovery 7 feet, 6 inches.	
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-16-RI

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 050 and 051

Date/Time Core Collected: 10/20/08 10:50
Date/Time Core Processed: 10/20/08 11:30
Latitude: 47.239343 Longitude: -123.048270
Core Penetration: 7 feet, 10 inches
Core Recovery (percent): 6 feet, 11 inches (88%)

Notes: Processed samples from second core of two attempts. Samples collected every 3-centimeter intervals to 4 feet.

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		1	Olive gray silty CLAY, few shell fragments.	CL
No		2	Same as above.	
No		3	Same as above. Hydrogen sulfide odor present.	
No		4	Same as above. Hydrogen sulfide odor present.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-16-RI

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 050 and 051
Date/Time Core Collected: 10/20/08 10:50
Date/Time Core Processed: 10/20/08 11:30
Latitude: 47.239343 Longitude: -123.048270
Core Penetration: 7 feet, 10 inches
Core Recovery (percent): 6 feet, 11 inches (88%)
Notes: Processed samples from second core of two attempts. Samples collected every 3-centimeter intervals to 4 feet.

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Olive gray silty CLAY, few shell fragments.	CL
No		6	Same as above.	
No		7	Same as above, abundant shell fragments.	
		8	Total core recovery 6 feet, 11 inches.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: OB-17-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 052
Notes: One core attempt at this location.

Date/Time Core Collected: 10/5/08 15:12
Date/Time Core Processed: 10/6/08 10:25
Latitude: 47.215749 Longitude: -123.082023
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 6 feet, 7 inches (92%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 15% bark	OB-17-WC-01	1	Dark olive gray clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes Less than 1% bark	OB-17-WC-12	2	Same as above, shell fragments. Hydrogen sulfide odor present.	
Yes Less than 1% bark	OB-17-WC-23	3	Olive gray silty CLAY, trace amounts of sand, shell fragments. Hydrogen sulfide odor present.	CL
No	OB-17-WC-34	4	Same as above.	

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SEDIMENT CORE LOG

Sample Station Number: OB-17-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 052
Notes: One core attempt at this location.

Date/Time Core Collected: 10/5/08 15:12
Date/Time Core Processed: 10/6/08 10:25
Latitude: 47.215749 Longitude: -123.082023
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 6 feet, 7 inches (92%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.	CL
		5		
Yes Less than 1% bark			Same as above.	
		6		
No			Same as above.	
			Total core recovery 6 feet, 7 inches.	
		7		
		8		

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SEDIMENT CORE LOG

Sample Station Number: OB-18-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 053
Notes: One core attempt at this location.

Date/Time Core Collected: 10/5/08 14:35
Date/Time Core Processed: 10/5/08 17:50
Latitude: 47.2156696 Longitude: -123.069246
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 5 feet, 8 inches (79%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 10% bark	OB-18-WC-01	1	Dark olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.	ML
Yes Less than 5% bark	OB-18-WC-12	2	Dark olive gray clayey SILT. Hydrogen sulfide odor present.	
Yes 10% bark 1% wood fibers	OB-18-WC-23	3	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.	CL
No	OB-18-WC-34	4	Same as above.	

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SEDIMENT CORE LOG

Sample Station Number: OB-18-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 053
Notes: One core attempt at this location.

Date/Time Core Collected: 10/5/08 14:35
Date/Time Core Processed: 10/5/08 17:50
Latitude: 47.2156696 Longitude: -123.069246
Core Penetration: 7 feet, 2 inches
Core Recovery (percent): 5 feet, 8 inches (79%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Olive gray silty CLAY. Hydrogen sulfide odor present.	CL
No			Same as above.	
		6	Total core recovery 5 feet, 8 inches.	
		7		
		8		

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SEDIMENT CORE LOG

Sample Station Number: OB-19-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 054
Notes: One core attempt at this location.

Date/Time Core Collected: 10/5/08 12:23
Date/Time Core Processed: 10/5/08 15:40
Latitude: 47.226442 Longitude: -123.052725
Core Penetration: 5 feet, 8 inches
Core Recovery (percent): 4 feet, 1 inch (72%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	OB-19-WC-01	1	Dark olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.	ML
Yes 5% bark	OB-19-WC-12	2	Olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.	
Yes Less than 1% bark	OB-19-WC-23	3	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.	CL
No	OB-19-WC-34	4	Same as above.	
			Total core recovery 4 feet, 1 inch.	

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SEDIMENT CORE LOG

Sample Station Number: SH-01-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 001
Notes: Processed samples from third core of three attempts.

Date/Time Core Collected: 10/1/08 11:55
Date/Time Core Processed: 10/1/08 12:35
Latitude: 47.213354 Longitude: -123.083901
Core Penetration: 8 feet
Core Recovery (percent): 7 feet, 4 inches (92%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 10% bark	SH-01-SC-01	1	Dark olive gray, sandy SILT, with shell fragments, trace amounts of clay.	ML
No	SH-01-SC-12	2	Light olive gray, sandy, clayey SILT, with shell fragments. Hydrogen sulfide odor present.	
No	SH-01-SC-23	3	Same as above, shell fragments.	
No	SH-01-SC-34	4	Same as above, abundant amount of shell fragments.	

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SEDIMENT CORE LOG

Sample Station Number: SH-01-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 001
Notes: Processed samples from third core of three attempts.

Date/Time Core Collected: 10/1/08 11:55
Date/Time Core Processed: 10/1/08 12:35
Latitude: 47.213354 Longitude: -123.083901
Core Penetration: 8 feet
Core Recovery (percent): 7 feet, 4 inches (92%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Light olive gray, clayey SILT, with shell fragments, trace amounts of sand. Slight hydrogen sulfide odor present.	ML
No		6	Same as above.	
No		7	Same as above.	
		8	Total core recovery 7 feet, 4 inches.	

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SEDIMENT CORE LOG

Sample Station Number: SH-02-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 002
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/6/08 15:50
Date/Time Core Processed: 10/7/08 10:30
Latitude: 47.213505 Longitude: -123.087512
Core Penetration: 7 feet, 8 inches
Core Recovery (percent): 6 feet, 7 inches (86%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 15% bark	SH-02-SC-01	1	Dark olive gray, slightly sandy, clayey SILT. Hydrogen sulfide and petroleum-like odor present.	ML
Yes 5% bark, less than 1% wood chips	SH-02-SC-12	2	Dark olive gray clayey SILT, with few shell fragments. Hydrogen sulfide and slight petroleum-like odor present.	
Yes 5% bark	SH-02-SC-23	3	Same as above, some shell fragments. Hydrogen sulfide and slight petroleum-like odor present.	
No	SH-02-SC-34		Dark olive gray, clayey SILT, with fine-grained gravel and shell fragments. Hydrogen sulfide odor present.	
No		4	Dark olive gray, silty SAND, with shell fragments, and trace amounts of clay and gravel, poorly graded. Hydrogen sulfide odor present.	SM

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SEDIMENT CORE LOG

Sample Station Number: SH-02-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 002
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/6/08 15:50
Date/Time Core Processed: 10/7/08 10:30
Latitude: 47.213505 Longitude: -123.087512
Core Penetration: 7 feet, 8 inches
Core Recovery (percent): 6 feet, 7 inches (86%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		0	Olive gray, silty SAND, with shell fragments, trace amounts of clay and gravel, and occasional lenses of sandy silt. Hydrogen sulfide odor present.	SM
		5		
No			Same as above.	
		6		
No			Same as above.	
			Total core recovery 6 feet, 7 inches.	
		7		
		8		

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SEDIMENT CORE LOG

Sample Station Number: SH-04-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 003
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/15/08 09:39
Date/Time Core Processed: 10/15/08 11:40
Latitude: 47.212754 Longitude: -123.091749
Core Penetration: 8 feet, 10 inches
Core Recovery (percent): 6 feet, 8 inches (76%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	SH-04-SC-01	1	Dark olive gray, clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes 10% sawdust 1-inch distinct lense	SH-04-SC-12	2	Dark olive gray, clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	
Yes 75% sawdust, less than 5% bark	SH-04-SC-23	3	Dark olive gray, clayey SILT, trace amounts of sand. Hydrogen sulfide and petroleum-like odor present.	
Yes 75% sawdust, less than 5% bark	SH-04-SC-34	4	Same as above. Petroleum-like odor present.	

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SEDIMENT CORE LOG

Sample Station Number: SH-04-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 003
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/15/08 09:39
Date/Time Core Processed: 10/15/08 11:40
Latitude: 47.212754 Longitude: -123.091749
Core Penetration: 8 feet, 10 inches
Core Recovery (percent): 6 feet, 8 inches (76%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 75% sawdust, less than 5% small wood chips		5	Dark olive gray, clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes 75% sawdust, less than 5% small wood chips			Same as above.	
No		6	Dark olive gray, sandy GRAVEL, trace amounts of silt.	GW
Yes Less than 5% bark fibers			Dark olive brown, clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
		7	Total core recovery 6 feet, 8 inches.	
		8		

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SEDIMENT CORE LOG

Sample Station Number: SH-05-SC

Sheet 1 of 1

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 004
Notes: Processed samples from third core of three attempts.

Date/Time Core Collected: 10/14/08 17:40
Date/Time Core Processed: 10/15/08 13:10
Latitude: 47.211516 Longitude: -123.091877
Core Penetration: 4 feet, 11 inches
Core Recovery (percent): 2 feet, 1 inch (42%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	SH-05-SC-01	1	Grayish brown sandy GRAVEL.	GW
No	SH-05-SC-12	2	Grayish black, gravelly SAND, well-graded.	SW
		3	Total core recovery 2 feet, 1 inch.	
		4		

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SEDIMENT CORE LOG

Sample Station Number: SH-07-SC

Sheet 1 of 1

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 005
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/15/08 10:45
Date/Time Core Processed: 10/15/08 14:00
Latitude: 47.210259 Longitude: -123.089144
Core Penetration: 5 feet, 7 inches
Core Recovery (percent): 3 feet, 9 inches (67%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	SH-07-SC-01	1	Dark olive gray, clayey SILT, trace amounts of sand.	ML
No	SH-07-SC-12	2	Dark brown silty SAND, with shell fragments, occasional gravel, black stained sand.	SM
No	SH-07-SC-23	3	Gray brown sandy GRAVEL, trace amounts of silt.	GP
No	SH-07-SC-34	4	Grayish brown gravelly SAND, trace amounts of silt, well-graded.	SW
			Total core recovery 3 feet, 9 inches.	

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SEDIMENT CORE LOG

Sample Station Number: SH-08-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 006
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/6/08 14:45
Date/Time Core Processed: 10/6/08 16:30
Latitude: 47.210763 Longitude: -123.089097
Core Penetration: 7 feet, 8 inches
Core Recovery (percent): 5 feet (65%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	SH-08-SC-01	0	Very dark olive gray, sandy GRAVEL with cobbles.	GW
		1	Very dark olive gray clayey SILT, trace amounts of sand, several small twigs. Slight hydrogen sulfide odor present.	ML
No	SH-08-SC-12	2	Very dark olive gray clayey SILT, trace amounts of sand, shell fragments. Slight hydrogen sulfide odor present.	
No	SH-08-SC-23	3	Same as above.	
No	SH-08-SC-34	4	Very dark olive gray gravelly SAND, shell fragments, trace amounts of silt. Slight hydrogen sulfide odor present.	SW

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SEDIMENT CORE LOG

Sample Station Number: SH-08-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 006
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/6/08 14:45
Date/Time Core Processed: 10/6/08 16:30
Latitude: 47.210763 Longitude: -123.089097
Core Penetration: 7 feet, 8 inches
Core Recovery (percent): 5 feet (65%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Very dark olive gray gravelly SAND, shell fragments, trace amounts of silt. Slight hydrogen sulfide odor present.	SW
		6	Total core recovery 5 feet.	
		7		
		8		

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SEDIMENT CORE LOG

Sample Station Number: SH-09-SC

Sheet 1 of 1

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Brady Hanson/Kyle Graunke
Photo number: 007 and 008
Notes: Processed samples from second core of three attempts.

Date/Time Core Collected: 10/1/08 13:50
Date/Time Core Processed: 10/1/08 18:00
Latitude: 47.210707 Longitude: -123.085754
Core Penetration: 4 feet, 4 inches
Core Recovery (percent): 3 feet, 4 inches (77%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 1% wood chips	SH-09-SC-01	1	Dark olive gray silty SAND.	SM
No	SH-09-SC-12	2	Dark olive gray sandy GRAVEL with silt; cobble layer at 1 foot, 5 inches. 2-inch thick layer of leaves and twigs from 6 to 8 inches.	GW
No	SH-09-SC-23	3	Same as above.	
		4	Total core recovery 3 feet.	

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SEDIMENT CORE LOG

Sample Station Number: SH-10-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 009
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 9/30/08 13:30
Date/Time Core Processed: 10/1/08 14:50
Latitude: 47.211575 Longitude: -123.083235
Core Penetration: 7 feet, 10 inches
Core Recovery (percent): 5 feet, 7 ½ inches (72%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	SH-10-SC-01	1	Dark olive gray, clayey SAND, shell fragments, trace amounts of silt. Hydrogen sulfide odor present.	SC
Yes 20% bark	SH-10-SC-12	2	Dark olive gray sandy SILT, shell fragments, trace amounts of clay. Hydrogen sulfide odor present.	ML
Yes 20% bark	SH-10-SC-23	3	Same as above.	
Yes 10% bark	SH-10-SC-34	4	Dark olive gray sandy SILT, shell fragments, trace amounts of clay.	

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SEDIMENT CORE LOG

Sample Station Number: SH-10-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 009
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 9/30/08 13:30
Date/Time Core Processed: 10/1/08 14:50
Latitude: 47.211575 Longitude: -123.083235
Core Penetration: 7 feet, 10 inches
Core Recovery (percent): 5 feet, 7 ½ inches (72%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Dark olive gray sandy SILT, shell fragments, trace amounts of clay. Hydrogen sulfide odor present.	ML
		5		
No			Same as above.	
			Total core recovery 5 feet, 7 ½ inches.	
		6		
		7		
		8		

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SEDIMENT CORE LOG

Sample Station Number: SH-11-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 011
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/14/08 11:17
Date/Time Core Processed: 10/14/08 12:00
Latitude: 47.207966 Longitude: -123.094195
Core Penetration: 6 feet, 8 inches
Core Recovery (percent): 4 feet, 7 inches (69%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 5% wood chips	SH-11-SC-01	1	Dark olive gray SILT, with trace amounts of clay. Crab in core, some eel grass. Hydrogen sulfide odor present.	ML
Yes Less than 5% wood chips	SH-11-SC-12	2	Olive gray clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	
			Same as above.	
No	SH-11-SC-23	3	Dark brown sandy GRAVEL with cobbles, trace amounts of twigs. Hydrogen sulfide odor present.	GW
			Dark brown SILT, trace amounts of clay.	ML
Yes Less than 1% bark (2 pieces)	SH-11-SC-34	4	Dark brown sandy GRAVEL with cobbles.	GW

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SEDIMENT CORE LOG

Sample Station Number: SH-11-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 011
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 10/14/08 11:17
Date/Time Core Processed: 10/14/08 12:00
Latitude: 47.207966 Longitude: -123.094195
Core Penetration: 6 feet, 8 inches
Core Recovery (percent): 4 feet, 7 inches (69%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Dark brown sandy GRAVEL with cobbles.	GW
			Total core recovery 4 feet, 7 inches.	
		5		
		6		
		7		
		8		

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SEDIMENT CORE LOG

Sample Station Number: SH-12-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 012
Notes: Processed samples from third core of three attempts.

Date/Time Core Collected: 10/2/08 13:20
Date/Time Core Processed: 10/2/08 15:30
Latitude: 47.207338 Longitude: -123.094080
Core Penetration: 6 feet, 11 inches
Core Recovery (percent): 5 feet, 4 inches (77%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 10% wood fibers Less than 5% wood chips	SH-12-SC-01	1	Olive gray clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes 10% wood fibers Less than 5% wood chips Less than 1% bark	SH-12-SC-12	2	Same as above.	
Yes 10% wood fibers Less than 5% wood chips	SH-12-SC-23	3	Same as above.	
Yes 10% wood fibers	SH-12-SC-34	4	Same as above.	

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SEDIMENT CORE LOG

Sample Station Number: SH-12-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 012
Notes: Processed samples from third core of three attempts.

Date/Time Core Collected: 10/2/08 13:20
Date/Time Core Processed: 10/2/08 15:30
Latitude: 47.207338 Longitude: -123.094080
Core Penetration: 6 feet, 11 inches
Core Recovery (percent): 5 feet, 4 inches (77%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 10% wood fibers			Gray silty SAND.	SM
Yes 50% wood fibers 10% bark 5% wood chips		5	Gray sandy SILT, trace amounts of clay.	ML
			Total core recovery 5 feet, 4 inches	
		6		
		7		
		8		

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SEDIMENT CORE LOG

Sample Station Number: SH-12-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 012 and 013
Notes: One core attempt at this location.

Date/Time Core Collected: 10/20/08 16:05
Date/Time Core Processed: 10/20/08 17:00
Latitude: 47.207330 Longitude: -123.094048
Core Penetration: 11 feet, 1 inch
Core Recovery (percent): 10 feet, 5 inches (94%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 5% wood fibers		1	Olive gray clayey SILT.	ML
Yes Less than 5% wood fibers		2	Same as above.	
Yes Less than 5% wood fibers		3	Same as above.	
Yes Less than 5% wood fibers		4	Same as above.	

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SEDIMENT CORE LOG

Sample Station Number: SH-12-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/ Diana Phelan
Photo number: 012 and 013
Notes: One core attempt at this location.

Date/Time Core Collected: 10/20/08 16:05
Date/Time Core Processed: 10/20/08 17:00
Latitude: 47.207330 Longitude: -123.094048
Core Penetration: 11 feet, 1 inch
Core Recovery (percent): 10 feet, 5 inches (94%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 5% bark	SH-12-SC-45	5	Olive gray clayey SILT. Hydrogen sulfide odor present.	ML
Yes 5% bark 10% wood fibers	SH-12-SC-56	6	Same as above.	
Yes 75% sawdust	SH-12-SC-67	7	Same as above.	
Yes 100% sawdust		8	Sawdust.	

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SEDIMENT CORE LOG

Sample Station Number: SH-12-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/ Diana Phelan
Photo number: 012 and 013
Notes: Log represents one core attempt at this location.

Date/Time Core Collected: 10/20/08 16:05
Date/Time Core Processed: 10/20/08 17:00
Latitude: 47.207330 Longitude: -123.094048
Core Penetration: 11 feet, 1 inch
Core Recovery (percent): 10 feet, 5 inches (94%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 100% sawdust		9	Sawdust.	
Yes 100% sawdust		10	Same as above.	
Yes 85% sawdust	SH-12-SC-1011		Olive gray clayey SILT.	ML
		11	Total core recovery 10 feet, 5 inches	
		12		

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SEDIMENT CORE LOG

Sample Station Number: SH-13-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 014
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/14/08 16:20
Date/Time Core Processed: 10/15/08 09:00
Latitude: 47.206356 Longitude: -123.092717
Core Penetration: 6 feet, 8 inches
Core Recovery (percent): 5 feet, 8 inches (85%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 1% wood fibers	SH-13-SC-01	1	Olive gray sandy SILT. Slight hydrogen sulfide odor present.	ML
Yes Less than 1% wood fibers	SH-13-SC-12	2	Olive gray sandy GRAVEL with cobbles, few shell fragments. Hydrogen sulfide odor present.	GW
Yes Less than 1% wood chips			Olive gray clayey SILT, trace amounts of sand.	ML
Yes Less than 1% wood fibers	SH-13-SC-23	3	Same as above. Hydrogen sulfide odor present.	
Yes Less than 5% wood fibers; less than 5% bark			Olive gray sandy GRAVEL.	GW
Yes Less than 5% wood fibers; less than 5% bark	SH-13-SC-34	4	Same as above.	
Yes 5% wood fibers			Olive gray clayey SILT, trace amounts of sand.	ML

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-13-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 014
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/14/08 16:20
Date/Time Core Processed: 10/15/08 09:00
Latitude: 47.206356 Longitude: -123.092717
Core Penetration: 6 feet, 8 inches
Core Recovery (percent): 5 feet, 8 inches (85%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 5% wood fibers		0	Olive gray clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes		2	Olive gray sandy GRAVEL, trace amounts of silt.	GW
Yes		4	Olive gray sandy SILT. Hydrogen sulfide odor present.	ML
Yes Less than 1% bark		5	Olive gray clayey SILT.	ML
		6	Total core recovery 5 feet, 8 inches	
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-14-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 015
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 9/30/08 16:08
Date/Time Core Processed: 9/30/08 17:30
Latitude: 47.208749 Longitude: -123.080774
Core Penetration: 8 feet
Core Recovery (percent): 6 feet, 9 inches (84%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 10% bark	SH-14-SC-01	1	Dark olive gray sandy SILT, shell fragments, trace amounts of clay. Hydrogen sulfide odor present.	ML
Yes 10% bark	SH-14-SC-12	2	Same as above.	
Yes 10% bark	SH-14-SC-23	3	Dark olive gray clayey SILT, shell fragments, trace amounts of sand. Hydrogen sulfide odor present.	ML
No	SH-14-SC-34	4	Light olive gray clayey SILT, shell fragments, trace amounts of sand. Hydrogen sulfide odor present.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-14-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 015
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 9/30/08 16:08
Date/Time Core Processed: 9/30/08 17:30
Latitude: 47.208749 Longitude: -123.080774
Core Penetration: 8 feet
Core Recovery (percent): 6 feet, 9 inches (84%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Light olive gray clayey SILT, shell fragments, trace amounts of sand.	ML
		5		
No			Same as above.	
		6		
No			Same as above	
			Total core recovery 6 feet, 9 inches.	
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-15-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 016
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/1/08 14:31
Date/Time Core Processed: 10/1/08 16:20
Latitude: 47. 210102 Longitude: -123.077238
Core Penetration: 8 feet
Core Recovery (percent): 6 feet, 3 inches (78%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	SH-15-SC-01	1	Dark olive gray to gray, fine-grained SAND, trace amounts of silt.	SW
No	SH-15-SC-12	2	Same as above, trace amounts of shell fragments.	
No	SH-15-SC-23	3	Same as above.	
No	SH-15-SC-34	4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-15-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 016
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/1/08 14:31
Date/Time Core Processed: 10/1/08 16:20
Latitude: 47. 210102 Longitude: -123.077238
Core Penetration: 8 feet
Core Recovery (percent): 6 feet, 3 inches (78%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Dark olive gray to gray SAND, trace amounts of silt and shell fragments.	SW
No		6	Same as above.	
		7	Total core recovery 6 feet, 3 inches.	
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-16-SC

Sheet 1 of 1

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 017
Notes: Processed samples from first core of three attempts.

Date/Time Core Collected: 10/2/08 10:05
Date/Time Core Processed: 10/2/08 12:00
Latitude: 47.213596 Longitude: -123.078112
Core Penetration: 4 feet, 7 inches
Core Recovery (percent): 2 feet, 8 inches (58%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	SH-16-SC-01	0	Tan medium- to coarse-grained SAND, shell fragments, trace amounts of silt.	SW
		1	Black medium- to coarse-grained SAND, shell fragments.	SW
Yes Less than 1% wood chips	SH-16-SC-12	2	Same as above.	
No		3	Same as above.	
		4	Total core recovery 2 feet, 8 inches.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-17-RI

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 018

Date/Time Core Collected: 10/15/08 12:50
Date/Time Core Processed: 10/15/08 16:00
Latitude: 47.211520 Longitude: -123.086362
Core Penetration: 9 feet
Core Recovery (percent): 6 feet, 1 inch (68%)

Notes: Processed samples from second core of two attempts. Samples collected every 3-centimeter intervals to 4 feet.

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 5% wood chips		1	Dark olive gray clayey SILT, trace amounts of sand.	ML
No		2	Dark olive gray gravelly SAND, trace amounts of silt.	SW
No		3	Dark olive gray sandy GRAVEL, trace amounts of silt.	GW
Yes 5% bark		4	Dark olive gray sandy SILT, trace amounts of gravel.	ML

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-17-RI

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 018

Date/Time Core Collected: 10/15/08 12:50
Date/Time Core Processed: 10/15/08 16:00
Latitude: 47.211520 Longitude: -123.086362
Core Penetration: 9 feet
Core Recovery (percent): 6 feet, 1 inch (68%)

Notes: Processed samples from second core of two attempts. Samples collected every 3-centimeter intervals to 4 feet.

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 5% bark		5	Dark olive gray sandy SILT, trace amounts of clay.	ML
Yes Less than 5% bark		6	Same as above.	
		7	Total core recovery 6 feet, 1 inch.	
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-18-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 019
Notes: One core attempt at this location.

Date/Time Core Collected: 10/2/08 13:57
Date/Time Core Processed: 10/2/08 16:30
Latitude: 47.208720 Longitude: -123.094097
Core Penetration: 8 feet
Core Recovery (percent): 5 feet, 5 inches (68%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 10% wood fibers 5% bark 5% wood chips	SH-18-WC-01	1	Dark olive gray clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes 10% wood fibers 5% bark	SH-18-WC-12	2	Same as above.	
Yes 25% wood fibers 5% bark	SH-18-WC-23	3	Same as above.	
Yes 20% wood fibers 5% bark	SH-18-WC-34	4	Same as above, trace amounts of gravel.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-18-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 019
Notes: One core attempt at this location.

Date/Time Core Collected: 10/2/08 13:57
Date/Time Core Processed: 10/2/08 16:30
Latitude: 47.208720 Longitude: -123.094097
Core Penetration: 8 feet
Core Recovery (percent): 5 feet, 5 inches (68%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
			Dark olive gray clayey SILT, trace amounts of sand.	ML
No			Gray sandy GRAVEL.	GW
No		5	Reddish brown poorly-graded medium-grained SAND	SP
			Total core recovery 5 feet, 5 inches.	

6
7
8

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-19-WC

Sheet 1 of 1

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 020
Notes: Second core of two attempts.

Date/Time Core Collected: 10/14/08 13:05
Date/Time Core Processed: 10/14/08 13:45
Latitude: 47.207886 Longitude: -123.092448
Core Penetration: 5 feet, 4 inches
Core Recovery (percent): 4 feet, 1 inch (77%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 1% wood chips	SH-19-WC-01	1	Olive gray SILT, trace amounts of sand and clay.	ML
Yes Less than 1% wood chips	SH-19-WC-12	2	Same as above.	
No	SH-19-WC-23		Brown SILT, trace amounts of clay and sand.	ML
No		3	Grayish brown sandy GRAVEL with cobbles, trace amounts of silt.	GW
No	SH-19-WC-34	4	Same as above.	
			Total core recovery 4 feet, 1 inch.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-20-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 021
Notes: Second core of two attempts.

Date/Time Core Collected: 10/7/08 10:30
Date/Time Core Processed: 10/7/08 12:00
Latitude: 47.206894 Longitude: -123.090489
Core Penetration: 6 feet, 11 inches
Core Recovery (percent): 5 feet, 3 inches (76%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	SH-20-WC-01	1	Dark olive gray slightly clayey SILT, trace amounts of sand, few shell fragments. Hydrogen sulfide odor present.	ML
Yes 5% bark	SH-20-WC-12	2	Dark olive gray clayey SILT, few shell fragments.	
Yes Less than 1% bark	SH-20-WC-23	3	Dark olive gray clayey SILT, trace amounts of sand and gravel.	
No	SH-20-WC-34		Same as above.	
No		4	Dark olive gray gravelly SAND, trace amounts of silt.	SW

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-20-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 021
Notes: Second core of two attempts.

Date/Time Core Collected: 10/7/08 10:30
Date/Time Core Processed: 10/7/08 12:00
Latitude: 47.206894 Longitude: -123.090489
Core Penetration: 6 feet, 11 inches
Core Recovery (percent): 5 feet, 3 inches (76%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Olive gray silty CLAY.	CL
No		5	Brown gravelly SAND.	SW
			Total core recovery 5 feet, 3 inches	
		6		
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-21-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 022
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/2/08 09:10
Date/Time Core Processed: 10/2/08 09:50
Latitude: 47.208772 Longitude: -123.089710
Core Penetration: 6 feet, 11 inches
Core Recovery (percent): 5 feet, 4 inches (77%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 20% wood chips 5% wood fibers	SH-21-WC-01	1	Dark brown to black, clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes 20% wood chips 5% wood fibers	SH-21-WC-12	2	Same as above.	
Yes 20% wood chips 20% wood fibers	SH-21-WC-23	3	Same as above.	
Yes 25% bark 15% wood chips 30% wood fibers	SH-21-WC-34	4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-21-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 022
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 10/2/08 09:10
Date/Time Core Processed: 10/2/08 09:50
Latitude: 47.208772 Longitude: -123.089710
Core Penetration: 6 feet, 11 inches
Core Recovery (percent): 5 feet, 4 inches (77%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 25% bark 15% wood chips 30% wood fibers		5	Dark brown to black, clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
		6 7 8	Total core recovery 5 feet, 4 inches.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-21-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 023 and 024
Notes: Second core of two attempts.

Date/Time Core Collected: 10/15/08 14:45
Date/Time Core Processed: 10/15/08 18:30
Latitude: 47.208754 Longitude: -123.089651
Core Penetration: 12 feet
Core Recovery (percent): 12 feet (100%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 25% bark		1	Dark brown to black clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes 25% bark		2	Same as above.	
Yes 25% bark		3	Same as above.	
Yes 20% bark		4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-21-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 023 and 024
Notes: Second core of two attempts.

Date/Time Core Collected: 10/15/08 14:45
Date/Time Core Processed: 10/15/08 18:30
Latitude: 47.208754 Longitude: -123.089651
Core Penetration: 12 feet
Core Recovery (percent): 12 feet (100%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 5% bark	SH-21-WC-45	5	Dark brown to black clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes Less than 5% bark	SH-21-WC-56	6	Same as above.	
Yes Less than 5% bark	SH-21-WC-67	7	Same as above.	
Yes 5% bark	SH-21-WC-78	8	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-21-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Diana Phelan
Photo number: 023 and 024
Notes: Log represents second core of two attempts.

Date/Time Core Collected: 10/15/08 14:45
Date/Time Core Processed: 10/15/08 18:30
Latitude: 47.208754 Longitude: -123.089651
Core Penetration: 12 feet
Core Recovery (percent): 12 feet (100%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 5% bark	SH-21-WC-89	9	Dark brown to black clayey SILT, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes 2% bark	SH-21-WC-910	10	Same as above.	
Yes Less than 5% bark	SH-21-WC-1011	11	Same as above.	
Yes 1% bark	SH-21-WC-1112	12	Same as above.	
			Total core recovery 12 feet.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-22-WC

Sheet 1 of 1

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 025
Notes: First core of three attempts.

Date/Time Core Collected: 10/6/08 16:30
Date/Time Core Processed: 10/7/08 08:50
Latitude: 47.208042 Longitude: -123.086823
Core Penetration: 3 feet, 1 inch
Core Recovery (percent): 2 feet, 6 inches (81%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 20% bark	SH-22-WC-01	1	Very dark olive gray SILT, trace amounts of sand and clay. Hydrogen sulfide odor present.	ML
Yes 25% bark	SH-22-WC-12	2	Very dark olive gray sandy SILT, trace amounts of clay. Hydrogen sulfide odor present.	
Yes 40% bark Less than 1% wood chips	SH-22-WC-23	3	Dark olive gray clayey SILT, shell fragments, trace amounts of sand. Hydrogen sulfide odor present.	
		4	Total core recovery 2 feet, 6 inches.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-23-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 026
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 9/30/08 16:44
Date/Time Core Processed: 9/30/08 18:20
Latitude: 47.208292 Longitude: -123.084487
Core Penetration: 8 feet
Core Recovery (percent): 6 feet, 9 inches (84%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes Less than 5% bark	SH-23-SC-01	1	Dark olive gray sandy SILT, trace amounts of clay, shell fragments. Hydrogen sulfide odor present.	ML
Yes 10% bark	SH-23-SC-12	2	Same as above.	
Yes 10% bark	SH-23-SC-23	3	Same as above.	
No	SH-23-SC-34	4	Dark olive gray clayey SILT, shell fragments.	ML

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-23-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 026
Notes: Processed samples from one core attempt at this location.

Date/Time Core Collected: 9/30/08 16:44
Date/Time Core Processed: 9/30/08 18:20
Latitude: 47.208292 Longitude: -123.084487
Core Penetration: 8 feet
Core Recovery (percent): 6 feet, 9 inches (84%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Dark olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present/	ML
		5		
No			Same as above.	
		6		
No			Same as above.	
			Total core recovery 6 feet, 9 inches.	
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-26-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 027
Notes: One core attempt at this location.

Date/Time Core Collected: 10/6/08 12:40
Date/Time Core Processed: 10/6/08 15:30
Latitude: 47.211604 Longitude: -123.089908
Core Penetration: 6 feet, 10 inches
Core Recovery (percent): 4 feet, 8 inches (68%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	SH-26-WC-01	1	Grayish brown coarse-grained SAND, trace amounts of silt and gravel, shell. fragments. Slight hydrogen sulfide odor present.	SP
No	SH-26-WC-12	2	Same as above, one twig present.	
No	SH-26-WC-23	3	Same as above.	
No			Very dark gray to black silty SAND. Slight hydrogen sulfide odor present.	SM
No	SH-26-WC-34	4	Same as above.	
No			Very dark gray to black clayey SILT, trace amounts of sand. Slight hydrogen sulfide odor present.	ML

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-26-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 027
Notes: One core attempt at this location.

Date/Time Core Collected: 10/6/08 12:40
Date/Time Core Processed: 10/6/08 15:30
Latitude: 47.211604 Longitude: -123.089908
Core Penetration: 6 feet, 10 inches
Core Recovery (percent): 4 feet, 8 inches (68%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Very dark gray to black clayey SILT, trace amounts of sand. Slight hydrogen sulfide odor present.	ML
			Total core recovery 4 feet, 8 inches.	
		5		
		6		
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-27-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 028
Notes: One core attempt at this location.

Date/Time Core Collected: 10/6/08 11:45
Date/Time Core Processed: 10/6/08 14:15
Latitude: 47.212037 Longitude: -123.087788
Core Penetration: 7 feet
Core Recovery (percent): 6 feet, 3 inches (89%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 10% bark 10% twigs	SH-27-WC-01	1	Dark gray to black SILT, trace amounts of sand and clay.	ML
Yes 5% wood chunks 5% twigs	SH-27-WC-12	2	Same as above. Hydrogen sulfide odor present. Olive gray silty SAND, trace amounts of gravel.	SM
Yes 5% wood chunks	SH-27-WC-23	3	Olive gray gravelly SAND, trace amounts of silt. Hydrogen sulfide odor present.	SW
Yes Less than 1% wood chunks	SH-27-WC-34	4	Same as above, shell fragments.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-27-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 028
Notes: One core attempt at this location.

Date/Time Core Collected: 10/6/08 11:45
Date/Time Core Processed: 10/6/08 14:15
Latitude: 47.212037 Longitude: -123.087788
Core Penetration: 7 feet
Core Recovery (percent): 6 feet, 3 inches (89%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No		5	Olive gray poorly-graded SAND, trace amounts of gravel and silt, shell fragments. Hydrogen sulfide odor present.	SP
No		6	Same as above.	
		7	Total core recovery 6 feet, 3 inches.	
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-28-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 029
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 9/30/08 15:04
Date/Time Core Processed: 9/30/08 19:00
Latitude: 47.210426 Longitude: -123.081994
Core Penetration: 8 feet
Core Recovery (percent): 6 feet, 7.5 inches (83%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 20% bark	SH-28-SC-01	1	Dark olive gray sandy SILT, trace amounts of shell fragments. Hydrogen sulfide odor present.	ML
Yes 10% bark	SH-28-SC-12	2	Same as above.	
Yes 10% bark	SH-28-SC-23	3	Dark olive gray clayey SILT, some shell fragments, trace amounts of sand. Hydrogen sulfide odor present.	ML
Yes Less than 5% bark	SH-28-SC-34	4	Same as above, abundant amounts of large shell fragments.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-28-SC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 029
Notes: Processed samples from second core of two attempts.

Date/Time Core Collected: 9/30/08 15:04
Date/Time Core Processed: 9/30/08 19:00
Latitude: 47.210426 Longitude: -123.081994
Core Penetration: 8 feet
Core Recovery (percent): 6 feet, 7.5 inches (83%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Dark olive gray clayey SILT, trace amounts of sand, abundant amounts of shell fragments. Hydrogen sulfide odor present.	ML
		5		
No			Same as above.	
		6		
No			Same as above.	
			Total core recovery 6 feet, 7.5 inches.	
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-29-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 030
Date/Time Core Collected: 10/6/08 10:38
Date/Time Core Processed: 10/6/08 13:15
Latitude: 47.211880 Longitude: -123.078134
Core Penetration: 7 feet, 1 inch
Core Recovery (percent): 6 feet, 6 inches (92%)
Notes: Second core of two attempts. No samples processed from this core.

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No	SH-29-WC-01	1	Dark gray to black slightly silty fine- to medium-grained SAND, trace amounts of gravel, shell fragments.	SP-SM
Yes Less than 1% bark	SH-29-WC-12	2	Same as above.	
Yes Less than 5% bark	SH-29-WC-23	3	Same as above. Hydrogen sulfide odor present.	
No	SH-29-WC-34	4	Same as above. Hydrogen sulfide odor present.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-29-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Gina Catarra
Photo number: 030
Notes: Second core of two attempts.

Date/Time Core Collected: 10/6/08 10:38
Date/Time Core Processed: 10/6/08 13:15
Latitude: 47.211880 Longitude: -123.078134
Core Penetration: 7 feet, 1 inch
Core Recovery (percent): 6 feet, 6 inches (92%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Dark gray to black fine- to medium-grained SAND, trace amounts of silt and gravel, shell fragments. Hydrogen sulfide odor present.	SP
		5		
Yes Less than 1% wood			Same as above.	
		6		
No			Same as above.	
			Total core recovery 6 feet, 6 inches.	
		7		
		8		

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-30-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 031
Notes: One core attempt at this location.

Date/Time Core Collected: 10/2/08 11:45
Date/Time Core Processed: 10/2/08 13:30
Latitude: 47.214335 Longitude: -123.083965
Core Penetration: 8 feet
Core Recovery (percent): 6 feet, 6 inches (83%)

Wood (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
Yes 5% bark	SH-30-WC-01	1	Dark gray clayey SILT, trace amounts of sand, shell fragments. Hydrogen sulfide odor present.	ML
No	SH-30-WC-12	2	Olive gray clayey SILT, trace amounts of sand, shell fragments. Hydrogen sulfide odor present.	
No	SH-30-WC-23	3	Same as above.	
No	SH-30-WC-34	4	Same as above.	

HERRERA ENVIRONMENTAL CONSULTANTS

SEDIMENT CORE LOG

Sample Station Number: SH-30-WC

Project name: Oakland Bay Sediment Characterization
Project number: 06-03386-007
Client: Ecology
HEC Samplers: Bruce Carpenter/Brady Hanson
Photo number: 031
Notes: One core attempt at this location.

Date/Time Core Collected: 10/2/08 11:45
Date/Time Core Processed: 10/2/08 13:30
Latitude: 47.214335 Longitude: -123.083965
Core Penetration: 8 feet
Core Recovery (percent): 6 feet, 6 inches (83%)

Wood chips (Y or N)/Percent	Sample ID and Interval	Depth (feet)	Soil Description / Comments	Sediment Core Log
No			Olive gray clayey SILT, trace amounts of sand, shell fragments. Hydrogen sulfide odor present.	ML
No		5	Same as above.	
No		6	Same as above.	
		7	Total core recovery 6 feet, 6 inches.	
		8		

APPENDIX C

Sample Summary Information

Table C-1. Samples collected and analyzed in Shelton Harbor.

Sample	Date	Date Received by Lab				Analyses performed														
ID	Collected	ARI	Test America	NewFields	Axys	TOC	Grain Size	SVOCs	Resin Acids	Pesticides	PCBs	Dioxin	TPH	TBT	Metals	Sulfides	Ammonia	TVS	Pb210	Bioassay
SH-01-SS-00	9/29/2008	10/2/2008	10/1/2008	10/3/2008	10/8/2008	X	X	X		X	X	X	X	X	X	X	X			X
SH-01-SC-01	10/1/2008	10/6/2008	NA	NA	NA															
SH-01-SC-12	10/1/2008	10/6/2008	10/3/2008	NA	NA	X	X	X		X	X		X	X	X	X	X			
SH-01-SC-23	10/1/2008	10/6/2008	NA	NA	NA															
SH-01-SC-34	10/1/2008	10/6/2008	NA	NA	NA															
SH-02-SS-00	9/30/2008	10/2/2008	10/1/2008	10/3/2008	10/8/2008	X	X	X		X	X	X	X	X	X	X	X			X
SH-02-SC-01	10/7/2008	10/8/2008	NA	NA	NA															
SH-02-SC-12	10/7/2008	10/8/2008	10/8/2008	NA	NA	X	X	X		X	X		X	X	X	X	X			
SH-02-SC-23	10/7/2008	10/8/2008	NA	NA	NA							X								
SH-02-SC-34	10/7/2008	10/8/2008	NA	NA	NA															
SH-03-SS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/14/2008	X	X	X		X	X	X			X	X	X			X
SH-04-SS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
SH-04-SC-01	10/15/2008	10/17/2008	NA	NA	NA															
SH-04-SC-12	10/15/2008	10/17/2008	10/16/2008	NA	NA	X	X	X		X	X				X	X	X			
SH-04-SC-23	10/15/2008	10/17/2008	NA	NA	NA							X								
SH-04-SC-34	10/15/2008	10/17/2008	NA	NA	NA															
SH-05-SS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X		X	X	X	X		X	X	X			X
SH-05-SC-01	10/15/2008	10/17/2008	NA	NA	NA															
SH-05-SC-12	10/15/2008	10/17/2008	10/16/2008	NA	NA	X	X	X		X	X				X	X	X			
SH-07-SS-00	10/5/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
SH-07-SC-01	10/15/2008	10/17/2008	NA	NA	NA															
SH-07-SC-12	10/15/2008	10/17/2008	10/16/2008	NA	NA	X	X	X		X	X				X	X	X			
SH-07-SC-23	10/15/2008	10/17/2008	NA	NA	NA															
SH-07-SC-34	10/15/2008	10/17/2008	NA	NA	NA															
SH-08-SC-01	10/6/2008	10/8/2008	NA	NA	NA															
SH-08-SC-12	10/6/2008	10/8/2008	10/8/2008	NA	NA	X	X	X		X	X				X	X	X			
SH-08-SC-23	10/6/2008	10/8/2008	NA	NA	NA															
SH-08-SC-34	10/6/2008	10/8/2008	NA	NA	NA															
SH-09-SS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
SH-09-SC-01	10/1/2008	10/6/2008	NA	NA	NA															
SH-09-SC-12	10/1/2008	10/6/2008	10/3/2008	NA	NA	X	X	X		X	X				X	X	X			
SH-09-SC-23	10/1/2008	10/6/2008	NA	NA	NA							X								
SH-10-SS-00	9/30/2008	10/2/2008	10/1/2008	10/3/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
SH-10-SC-01	9/30/2008	10/2/2008	NA	NA	NA															
SH-10-SC-12	9/30/2008	10/2/2008	10/1/2008	NA	NA	X	X	X		X	X				X	X	X			
SH-10-SC-23	9/30/2008	10/2/2008	NA	NA	NA							X								
SH-10-SC-34	9/30/2008	10/2/2008	NA	NA	NA															
SH-11-SS-00	10/2/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
SH-11-SC-01	10/14/2008	10/15/2008	NA	NA	NA															
SH-11-SC-12	10/14/2008	10/15/2008	10/15/2008	NA	NA	X	X	X		X	X				X	X	X			
SH-11-SC-23	10/14/2008	10/15/2008	NA	NA	NA															
SH-11-SC-34	10/14/2008	10/15/2008	NA	NA	NA															
SH-12-SS-00	10/2/2008	10/6/2008	10/13/2008	10/3/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
SH-12-SC-01	10/2/2008	10/6/2008	NA	NA	NA															
SH-12-SC-12	10/2/2008	10/6/2008	10/3/2008	NA	NA	X	X	X		X	X	X			X	X	X			
SH-12-SC-23	10/2/2008	10/6/2008	NA	NA	NA							X								
SH-12-SC-34	10/2/2008	10/6/2008	NA	NA	NA															
SH-12-SC-45	10/20/2008	10/21/2008	NA	NA	NA															
SH-12-SC-56	10/20/2008	10/21/2008	NA	NA	NA															

Table C-1 (continued). Samples collected and analyzed in Shelton Harbor.

Sample	Date	Date Received by Lab				Analyses performed														
ID	Collected	ARI	Test America	NewFields	Axys	TOC	Grain Size	SVOCs	Resin Acids	Pesticides	PCBs	Dioxin	TPH	TBT	Metals	Sulfides	Ammonia	TVS	Pb210	Bioassay
SH-12-SC-67	10/20/2008	10/21/2008	NA	NA	NA															
SH-12-SC-1011	10/20/2008	10/21/2008	NA	NA	NA															
SH-13-SS-00	10/5/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
SH-13-SC-01	10/15/2008	10/17/2008	NA	NA	NA															
SH-13-SC-12	10/15/2008	10/17/2008	10/16/2008	NA	NA	X	X	X		X	X	X			X	X	X			
SH-13-SC-23	10/15/2008	10/17/2008	NA	NA	NA							X								
SH-13-SC-34	10/15/2008	10/17/2008	NA	NA	NA															
SH-14-SS-00	9/30/2008	10/2/2008	10/1/2008	10/3/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
SH-14-SC-01	9/30/2008	10/2/2008	NA	NA	NA															
SH-14-SC-12	9/30/2008	10/2/2008	10/1/2008	NA	NA	X	X	X		X	X				X	X	X			
SH-14-SC-23	9/30/2008	10/2/2008	NA	NA	NA							X								
SH-14-SC-34	9/30/2008	10/2/2008	NA	NA	NA															
SH-15-SS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
SH-15-SC-01	10/1/2008	10/6/2008	NA	NA	NA															
SH-15-SC-12	10/1/2008	10/6/2008	10/3/2008	NA	NA	X	X	X		X	X				X	X	X			
SH-15-SC-23	10/1/2008	10/6/2008	NA	NA	NA															
SH-15-SC-34	10/1/2008	10/6/2008	NA	NA	NA															
SH-16-SS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
SH-16-SC-01	10/2/2008	10/6/2008	NA	NA	NA															
SH-16-SC-12	10/2/2008	10/6/2008	10/3/2008	NA	NA	X	X	X		X	X				X	X	X			
SH-17-RI-04	10/15/2008	NA	10/16/2008	NA	NA														X	
SH-18-WS-00	10/2/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X	X		X	X	X	X		X
SH-18-WC-01	10/2/2008	10/6/2008	NA	NA	NA															
SH-18-WC-12	10/2/2008	10/6/2008	10/3/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
SH-18-WC-23	10/2/2008	10/6/2008	NA	NA	NA															
SH-18-WC-34	10/2/2008	10/6/2008	NA	NA	NA															
SH-19-WS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
SH-19-WC-01	10/14/2008	10/15/2008	NA	NA	NA															
SH-19-WC-12	10/14/2008	10/15/2008	10/15/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
SH-19-WC-23	10/14/2008	10/15/2008	NA	NA	NA															
SH-19-WC-34	10/14/2008	10/15/2008	NA	NA	NA															
SH-20-WS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X	X		X	X	X	X		X
SH-20-WC-01	10/7/2008	10/8/2008	NA	NA	NA															
SH-20-WC-12	10/7/2008	10/8/2008	10/8/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
SH-20-WC-23	10/7/2008	10/8/2008	NA	NA	NA															
SH-20-WC-34	10/7/2008	10/8/2008	NA	NA	NA															
SH-21-WS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
SH-21-WC-01	10/2/2008	10/6/2008	NA	NA	NA															
SH-21-WC-12	10/2/2008	10/6/2008	10/3/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
SH-21-WC-23	10/2/2008	10/6/2008	NA	NA	NA															
SH-21-WC-34	10/2/2008	10/6/2008	NA	NA	NA															
SH-21-WC-45	10/15/2008	10/17/2008	NA	NA	NA															
SH-21-WC-56	10/15/2008	10/17/2008	NA	NA	NA															
SH-21-WC-67	10/15/2008	10/17/2008	NA	NA	NA															
SH-21-WC-78	10/15/2008	10/17/2008	NA	NA	NA															
SH-21-WC-89	10/15/2008	10/17/2008	NA	NA	NA															
SH-21-WC-910	10/15/2008	10/17/2008	NA	NA	NA															

Table C-1 (continued). Samples collected and analyzed in Shelton Harbor.

Sample	Date	Date Received by Lab				Analyses performed														
ID	Collected	ARI	Test America	NewFields	Axys	TOC	Grain Size	SVOCs	Resin Acids	Pesticides	PCBs	Dioxin	TPH	TBT	Metals	Sulfides	Ammonia	TVS	Pb210	Bioassay
SH-21-WC-1011	10/15/2008	10/17/2008	NA	NA	NA															
SH-21-WC-1112	10/15/2008	10/17/2008	NA	NA	NA															
SH-22-WS-00	9/30/2008	10/2/2008	10/1/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
SH-22-WC-01	10/7/2008	10/8/2008	NA	NA	NA															
SH-22-WC-12	10/7/2008	10/8/2008	10/8/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
SH-22-WC-23	10/7/2008	10/8/2008	NA	NA	NA															
SH-23-WS-00	9/30/2008	10/2/2008	10/1/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
SH-23-WC-01	9/30/2008	10/2/2008	NA	NA	NA															
SH-23-WC-12	9/30/2008	10/2/2008	10/1/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
SH-23-WC-23	9/30/2008	10/2/2008	NA	NA	NA															
SH-23-WC-34	9/30/2008	10/2/2008	NA	NA	NA															
SH-24-WS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
SH-25-WS-00	10/2/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
SH-26-WS-00	9/30/2008	10/2/2008	10/1/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
SH-26-WC-01	10/6/2008	10/8/2008	NA	NA	NA															
SH-26-WC-12	10/6/2008	10/8/2008	10/8/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
SH-26-WC-23	10/6/2008	10/8/2008	NA	NA	NA															
SH-26-WC-34	10/6/2008	10/8/2008	NA	NA	NA															
SH-27-WS-00	9/30/2008	10/2/2008	10/1/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
SH-27-WC-01	10/6/2008	10/8/2008	NA	NA	NA															
SH-27-WC-12	10/6/2008	10/8/2008	10/8/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
SH-27-WC-23	10/6/2008	10/8/2008	NA	NA	NA															
SH-27-WC-34	10/6/2008	10/8/2008	NA	NA	NA															
SH-28-WS-00	9/30/2008	10/2/2008	10/1/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
SH-28-WC-01	9/30/2008	10/2/2008	NA	NA	NA															
SH-28-WC-12	9/30/2008	10/2/2008	10/1/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
SH-28-WC-23	9/30/2008	10/2/2008	NA	NA	NA															
SH-28-WC-34	9/30/2008	10/2/2008	NA	NA	NA															
SH-29-WS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
SH-29-WC-01	10/6/2008	10/8/2008	NA	NA	NA															
SH-29-WC-12	10/6/2008	10/8/2008	10/8/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
SH-29-WC-23	10/6/2008	10/8/2008	NA	NA	NA															
SH-29-WC-34	10/6/2008	10/8/2008	NA	NA	NA															
SH-30-WS-00	10/1/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X		X	X	X	X	X		X
SH-30-WC-01	10/2/2008	10/6/2008	NA	NA	NA															
SH-30-WC-12	10/2/2008	10/6/2008	10/3/2008	NA	NA	X	X	X	X	X	X			X	X	X	X	X		
SH-30-WC-23	10/2/2008	10/6/2008	NA	NA	NA															
SH-30-WC-34	10/2/2008	10/6/2008	NA	NA	NA															

NA = samples not submitted for analysis or archive

Table C-2. Samples collected and analyzed in Oakland Bay

Sample	Date	Date Received by Lab				Analyses performed														
ID	Collected	ARI	Test America	NewFields	Axys	TOC	Grain Size	SVOCs	Resin Acids	Pesticides	PCBs	Dioxin	TPH	TBT	Metals	Sulfides	Ammonia	TVS	Pb210	Bioassay
OB-01-SS-00	10/2/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X		X	X	X	X		X	X	X			X
OB-01-SC-01	10/3/2008	10/8/2008	NA	NA	NA															
OB-01-SC-12	10/3/2008	10/8/2008	10/6/2008	NA	NA	X	X									X	X			
OB-01-SC-23	10/3/2008	10/8/2008	NA	NA	NA															
OB-01-SC-34	10/3/2008	10/8/2008	NA	NA	NA															
OB-02-SS-00	10/2/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X			X
OB-02-SC-01	10/3/2008	10/8/2008	NA	NA	NA															
OB-02-SC-12	10/3/2008	10/8/2008	10/6/2008	NA	NA	X	X									X	X			
OB-02-SC-23	10/3/2008	10/8/2008	NA	NA	NA															
OB-02-SC-34	10/3/2008	10/8/2008	NA	NA	NA															
OB-03-SS-00	10/2/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
OB-03-SC-01	10/3/2002	10/8/2008	NA	NA	NA															
OB-03-SC-12	10/3/2002	10/8/2008	10/6/2008	NA	NA	X	X					X				X	X			
OB-03-SC-23	10/3/2002	10/8/2008	NA	NA	NA															
OB-03-SC-34	10/3/2002	10/8/2008	NA	NA	NA															
OB-04-SS-00	10/3/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
OB-04-SC-01	10/4/2008	10/8/2008	NA	NA	NA															
OB-04-SC-12	10/4/2008	10/8/2008	10/6/2008	NA	NA	X	X									X	X			
OB-04-SC-23	10/4/2008	10/8/2008	NA	NA	NA															
OB-04-SC-34	10/4/2008	10/8/2008	NA	NA	NA															
OB-05-SS-00	10/3/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X			X
OB-05-SC-01	10/4/2008	10/8/2008	NA	NA	NA															
OB-05-SC-12	10/4/2008	10/8/2008	10/6/2008	NA	NA	X	X									X	X			
OB-05-SC-23	10/4/2008	10/8/2008	NA	NA	NA															
OB-05-SC-34	10/4/2008	10/8/2008	NA	NA	NA															
OB-06-SS-00	10/3/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X			X
OB-06-SC-01	10/5/2008	10/8/2008	NA	NA	NA															
OB-06-SC-12	10/5/2008	10/8/2008	10/6/2008	NA	NA	X	X					X				X	X			
OB-06-SC-23	10/5/2008	10/8/2008	NA	NA	NA															
OB-06-SC-34	10/5/2008	10/8/2008	NA	NA	NA															
OB-07-SS-00	10/5/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
OB-07-SC-01	10/16/2008	10/17/2008	NA	NA	NA															
OB-07-SC-12	10/16/2008	10/17/2008	10/17/2008	NA	NA	X	X									X	X			
OB-07-SC-23	10/16/2008	10/17/2008	NA	NA	NA															
OB-07-SC-34	10/16/2008	10/17/2008	NA	NA	NA															
OB-08-SS-00	10/5/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
OB-08-SC-01	10/16/2008	10/17/2008	NA	NA	NA															
OB-08-SC-12	10/16/2008	10/17/2008	10/17/2008	NA	NA	X	X									X	X			
OB-08-SC-23	10/16/2008	10/17/2008	NA	NA	NA															
OB-08-SC-34	10/16/2008	10/17/2008	NA	NA	NA															
OB-09-SS-00	10/3/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
OB-09-SC-01	10/5/2008	10/8/2008	NA	NA	NA															
OB-09-SC-12	10/5/2008	10/8/2008	10/6/2008	NA	NA	X	X					X				X	X			
OB-09-SC-23	10/5/2008	10/8/2008	NA	NA	NA															
OB-09-SC-34	10/5/2008	10/8/2008	NA	NA	NA															
OB-10-SS-00	10/4/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X			X
OB-10-SC-01	10/5/2008	10/8/2008	NA	NA	NA															
OB-10-SC-12	10/5/2008	10/8/2008	10/6/2008	NA	NA	X	X					X				X	X			
OB-10-SC-23	10/5/2008	10/8/2008	NA	NA	NA															
OB-10-SC-34	10/5/2008	10/8/2008	NA	NA	NA															
OB-11-SS-00	10/3/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
OB-11-SC-01	10/8/2008	10/10/2008	NA	NA	NA															

Table C-2 (continued). Samples collected and analyzed in Oakland Bay.

Sample	Date	Date Received by Lab				Analyses performed														
ID	Collected	ARI	Test America	NewFields	Axys	TOC	Grain Size	SVOCs	Resin Acids	Pesticides	PCBs	Dioxin	TPH	TBT	Metals	Sulfides	Ammonia	TVS	Pb210	Bioassay
OB-11-SC-12	10/8/2008	10/10/2008	10/13/2008	NA	NA	X	X									X	X			
OB-11-SC-23	10/8/2008	10/10/2008	NA	NA	NA															
OB-11-SC-34	10/8/2008	10/10/2008	NA	NA	NA															
OB-12-SS-00	10/4/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X	X	X	X	X	X		X	X	X			X
OB-12-SC-01	10/4/2008	10/8/2008	NA	NA	NA															
OB-12-SC-12	10/4/2008	10/8/2008	10/6/2008	NA	NA	X	X					X				X	X			
OB-12-SC-23	10/4/2008	10/8/2008	NA	NA	NA															
OB-12-SC-34	10/4/2008	10/8/2008	NA	NA	NA															
OB-12-SC-45	10/20/2008	10/21/2008	NA	NA	NA															
OB-12-SC-56	10/20/2008	10/21/2008	NA	NA	NA															
OB-12-SC-67	10/20/2008	10/21/2008	NA	NA	NA															
OB-13-SS-00	10/4/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X	X	X	X	X	X		X	X	X			X
OB-13-SC-01	10/8/2008	10/10/2008	NA	NA	NA															
OB-13-SC-12	10/8/2008	10/10/2008	10/9/2009	NA	NA	X	X									X	X			
OB-13-SC-23	10/8/2008	10/10/2008	NA	NA	NA															
OB-14-SS-00	10/4/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
OB-14-SC-01	10/7/2008	10/8/2008	NA	NA	NA															
OB-14-SC-12	10/7/2008	10/8/2008	10/8/2008	NA	NA	X	X									X	X			
OB-14-SC-23	10/7/2008	10/8/2008	NA	NA	NA															
OB-14-SC-34	10/7/2008	10/8/2008	NA	NA	NA															
OB-15-RI-04	10/16/2008	NA	10/17/2008	NA	NA														X	
OB-16-RI-04	10/20/2008	NA	10/23/2008	NA	NA														X	
OB-17-WS-00	10/3/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
OB-17-WC-01	10/6/2008	10/8/2008	NA	NA	NA															
OB-17-WC-12	10/6/2008	10/8/2008	10/8/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
OB-17-WC-23	10/6/2008	10/8/2008	NA	NA	NA															
OB-17-WC-34	10/6/2008	10/8/2008	NA	NA	NA															
OB-18-WS-00	10/3/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
OB-18-WC-01	10/5/2008	10/8/2008	NA	NA	NA															
OB-18-WC-12	10/5/2008	10/8/2008	10/6/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
OB-18-WC-23	10/5/2008	10/8/2008	NA	NA	NA															
OB-18-WC-34	10/5/2008	10/8/2008	NA	NA	NA															
OB-19-WS-00	10/4/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X	X		X
OB-19-WC-01	10/5/2008	10/10/2008	NA	NA	NA															
OB-19-WC-12	10/5/2008	10/10/2008	10/13/2008	NA	NA	X	X	X	X	X	X				X	X	X	X		
OB-19-WC-23	10/5/2008	10/10/2008	NA	NA	NA															
OB-19-WC-34	10/5/2008	10/10/2008	NA	NA	NA															

NA = samples not submitted for analysis or archive

Table C-3. Samples collected and analyzed in Hammersley Inlet.

Sample	Date	Date Received by Lab				Analyses performed													
ID	Collected	ARI	Test America	NewFields	Axys	TOC	Grain size	SVOCs	Resin Acids	Pesticides	PCBs	Dioxin	TPH	TBT	Metals	Sulfides	Ammonia	TVS	Pb210	Bioassay
HI-01-SC-01	10/16/2008	10/17/2008	NA	NA	NA															
HI-01-SC-12	10/16/2008	10/17/2008	10/17/2008	NA	NA	X	X									X	X			
HI-01-SC-23	10/16/2008	10/17/2008	NA	NA	NA															
HI-01-SC-34	10/16/2008	10/17/2008	NA	NA	NA															
HI-02-SS-00	10/5/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X			X
HI-02-SC-01	10/15/2008	10/17/2008	NA	NA	NA															
HI-02-SC-12	10/15/2008	10/17/2008	10/16/2008	NA	NA	X	X									X	X			
HI-02-SC-23	10/15/2008	10/17/2008	NA	NA	NA															
HI-02-SC-34	10/15/2008	10/17/2008	NA	NA	NA															
HI-03-SS-00	10/5/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
HI-03-SC-01	10/14/2008	10/15/2008	NA	NA	NA															
HI-03-SC-12	10/14/2008	10/15/2008	10/15/2008	NA	NA	X	X									X	X			
HI-03-SC-23	10/14/2008	10/15/2008	NA	NA	NA															
HI-03-SC-34	10/14/2008	10/15/2008	NA	NA	NA															
HI-04-SS-00	10/5/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X	X	X	X	X			X	X	X			X
HI-04-SC-01	10/14/2008	10/15/2008	NA	NA	NA															
HI-04-SC-12	10/14/2008	10/15/2008	10/15/2008	NA	NA	X	X									X	X			
HI-04-SC-23	10/14/2008	10/15/2008	NA	NA	NA															
HI-04-SC-34	10/14/2008	10/15/2008	NA	NA	NA															
HI-05-SS-00	10/2/2008	10/6/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
HI-06-SS-00	10/3/2008	10/8/2008	10/6/2008	10/6/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
HI-06-SC-01	10/6/2008	10/8/2008	NA	NA	NA															
HI-06-SC-12	10/6/2008	10/8/2008	10/8/2008	NA	NA	X	X									X	X			
HI-06-SC-23	10/6/2008	10/8/2008	NA	NA	NA															
HI-06-SC-34	10/6/2008	10/8/2008	NA	NA	NA															
HI-07-SS-00	10/2/2008	10/8/2008	10/3/2008	10/3/2008	10/8/2008	X	X	X		X	X	X			X	X	X			X
HI-07-SC-01	10/3/2008	10/8/2008	NA	NA	NA															
HI-07-SC-12	10/3/2008	10/8/2008	10/6/2008	NA	NA	X	X									X	X			
HI-07-SC-23	10/3/2008	10/8/2008	NA	NA	NA															
HI-07-SC-34	10/3/2008	10/8/2008	NA	NA	NA															

NA = samples not submitted for analysis or archive

APPENDIX D

Sediment Record Forms

HERRERA ENVIRONMENTAL CONSULTANTS

2200 Sixth Avenue, Suite 1100
Seattle, Washington 98121
(206) 441-9080
FAX (206) 441-9108

SEDIMENT SAMPLE RECORD

PROJECT NAME: **Oakland Bay Sediment Characterization Study / 06-03386-007** DATES: **9/29/08 – 10/7/08, 10/14/08 – 10/16/08, 10/20/08**

LOCATION: **Hammersley Inlet** CREW: **GC, BC, BH, GI, AS, KG, DP** GEAR: **Van Veen (surface sampling); Vibracore (subsurface sampling)**

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
HI-01	10/16/08	14:59	B	25.7	57	0-1	Olive gray sandy GRAVEL.
						1-2	Olive gray sandy GRAVEL to 1.3 feet. Olive gray silty CLAY from 1.3 to 2 feet.
						2-3	Olive gray silty CLAY.
						3-4	Olive gray silty CLAY.
HI-02	10/5/08	14:35	B	NR	NA	0-0.33	Light brown surface. Brown to gray silty SAND, with shell fragments. Brittle stars, crab, and shrimp on surface.
	10/14/08	13:50	B	20.2	70	0-1	Olive gray sandy SILT.
						1-2	Olive gray sandy SILT to 1.3 feet. Olive gray silty SAND, abundant shell fragments from 1.3 to 2 feet.
						2-3	Olive gray silty SAND, abundant shell fragments to 2.3 feet. Olive gray sandy GRAVEL, shell fragments from 2.3 to 3 feet.
						3-4	Olive gray sandy GRAVEL, shell fragments to 3.6 feet. Olive gray clayey SILT from 3.6 6o 4 feet.
HI-03	10/5/08	15:26	A	NR	NA	0-0.33	Brown sandy SILT surface layer. Greenish gray silty SAND to 0.01 feet. Greenish gray sandy CLAY to depth, shell fragments. Brittle stars on surface.
	10/14/08	14:35	A	9.4	97	0-1	Olive gray sandy SILT, abundant shell fragments. Less than 1% bark.
						1-2	Olive gray silty CLAY, shell fragments.
						2-3	Olive gray slightly silty CLAY.
						3-4	Olive gray slightly sandy CLAY, few shell fragments.
HI-04	10/5/08	16:11	A	NR	NA	0-0.33	Brown sandy SILT surface layer. Brown fine- to medium-grained SAND to 0.01 feet. Greenish gray medium-grained SAND to depth. 5% bark.
		16:25	B	NR	NA	0-0.33	Brown sandy SILT surface layer. Brown fine- to medium-grained SAND to 0.01 feet. Greenish gray medium-grained SAND to depth. 5% bark.
	10/14/08	15:20	A	8.8	64	0-1	Olive gray silty SAND. 5% bark. Slight hydrogen sulfide odor present.
						1-2	Olive gray silty SAND, few shell fragments. 1% bark. Slight hydrogen sulfide odor present.
						2-3	Olive gray silty SAND.
						3-4	Olive gray silty SAND, few shell fragments. Less than 1% wood chips.

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
HI-05	10/2/08	13:24	A	NR	NA	0-0.33	Light brown surface. Gray gravelly SAND. Redox potential depth is 0.79 inches. Fish, shrimp, hermit crab, and gastropods present.
		13:40	B	NR	NA	0-0.33	Light brown surface. Gray gravelly SAND. Redox potential depth is 0.79 inches. Fish, shrimp, hermit crab, and gastropods present.
HI-06	10/3/08	08:48	A	NR	NA	0-0.33	Light brown surface. Brownish green to brownish gray silty SAND, shell fragments. Redox potential depth is 0.79 inches.
	10/5/08	15:45	A	15.9	75	0-1	Dark gray to black gravelly SAND, shell fragments. 5% bark. Slight hydrogen sulfide odor present.
						1-2	Dark olive gray sandy GRAVEL, with cobbles. 2% bark.
						2-3	Dark gray silty fine-grained, poorly-graded SAND.
						3-4	Dark gray silty fine-grained, poorly-graded SAND.
HI-07	10/2/08	08:48	C	NR	NA	0-0.33	Brown surface. Brownish gray to dark gray gravelly SAND, shell fragments. Redox potential depth is 0.79 inches. Shrimp, hermit crab, and sponges present.
		09:10	D	NR	NA	0-0.33	Brown surface. Brownish gray to dark gray gravelly SAND. Redox potential depth is 0.79 inches. Slight hydrogen sulfide odor present. Shrimp, hermit crab, and worms present.
	10/3/08	11:30	A	36.4	73	0-1	Dark gray poorly-graded medium-grained SAND, shell fragments.
						1-2	Dark gray poorly-graded medium-grained SAND, shell fragments. Less than 1% wood fibers.
						2-3	Dark gray poorly-graded medium-grained SAND, shell fragments.
						3-4	Dark gray poorly-graded medium-grained SAND, shell fragments to 3.6 feet. Dark olive gray silty CLAY from 3.6 to 4 feet. Hydrogen sulfide odor present.

HERRERA ENVIRONMENTAL CONSULTANTS

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SEDIMENT SAMPLE RECORD

PROJECT NAME: **Oakland Bay Sediment Characterization Study / 06-03386-007** DATES: **9/29/08 – 10/7/08, 10/14/08 – 10/16/08, 10/20/08**

LOCATION: **Oakland Bay** CREW: **GC, BC, BH, GI, AS, KG, DP** GEAR: **Van Veen (surface sampling); Vibracore (subsurface sampling)**

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
OB-01	10/2/08	15:23	B	NR	NA	0-0.33	Light brown surface. Dark olive to grayish black sandy GRAVEL. Redox potential depth to 0.98 inches. Shells, sea anemone, shrimp, sponges on surface.
		15:23	C	NR	NA	0-0.33	Light brown surface. Dark olive to grayish black sandy GRAVEL, shell fragments. Redox potential depth to 0.98 inches. Shells, sea anemone, shrimp, sponges on surface.
	10/3/08	13:43	B	24.5	73	0-1	Dark gray sandy GRAVEL, shell fragments.
						1-2	Dark gray sandy GRAVEL, shell fragments.
						2-3	Dark gray sandy GRAVEL, shell fragments. Less than 1% bark.
						3-4	Dark gray sandy GRAVEL, shell fragments to 3.7 feet. Dark olive gray sandy SILT from 3.7 to 4 feet.
OB-02	10/2/08	14:30	A	NR	NA	0-0.33	Light brown surface. Dark olive to grayish black clayey SILT, shell fragments. Brittle star, fish, algae on surface.
	10/3/08	11:01	A	26.5	91	0-1	Dark olive gray clayey SILT, shell fragments. Less than 1% bark. Hydrogen sulfide odor present.
						1-2	Dark olive gray clayey SILT, shell fragments. Less than 1% bark. Hydrogen sulfide odor present.
						2-3	Dark olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
						3-4	Dark olive gray clayey SILT, shell fragments. Less than 1% bark. Hydrogen sulfide odor present.
OB-03	10/2/08	16:10	A	NR	NA	0-0.33	Light brown surface. Dark olive to black SILT, shell fragments. Redox potential depth to 0.20 inches. Slight hydrogen sulfide odor present.
	10/3/08	10:08	B	24.5	84	0-1	Dark olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
						1-2	Dark olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
						2-3	Dark olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.
						3-4	Dark olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.
OB-04	10/3/08	14:52	A	NR	NA	0-0.33	Light brown surface. Dark olive to grayish black sandy SILT, shell fragments. Redox potential to 0.39 inches. 5% bark.
	10/4/08	10:20	A	21.2	72	0-1	Olive gray clayey SILT, shell fragments. 15% bark. Hydrogen sulfide odor present.
						1-2	Olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
						2-3	Olive gray silty CLAY. Hydrogen sulfide odor present.
						3-4	Olive gray silty CLAY. Hydrogen sulfide odor present.

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
OB-05	10/3/08	11:55	A	NR	NA	0-0.33	Light brown surface. Dark olive to black SILT. Slight hydrogen sulfide odor present.
	10/4/08	12:20	C	26.4	71	0-1	Olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
						1-2	Olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
						2-3	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.
						3-4	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.
OB-06	10/3/08	15:35	A	NR	NA	0-0.33	Light brown surface. Dark olive to black SILT, shell fragments. Redox potential to 0.20 inches. Less than 5% wood fibers. Slight sulfide odor present.
	10/6/08	13:47	A	18.2	94	0-1	Dark olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
						1-2	Dark olive gray clayey SILT. Hydrogen sulfide odor present.
						2-3	Olive gray silty CLAY, shell fragments. Less than 1% bark. Hydrogen sulfide odor present.
						3-4	Olive gray silty CLAY, shell fragments. Less than 1% bark. Hydrogen sulfide odor present.
OB-07	10/5/08	10:29	A	NR	NA	0-0.13	Brown surface. Brown sandy SILT to 0.13 feet. Brown medium-grained sandy GRAVEL to depth.
		10:40	B	NR	NA	0-0.26	Brown surface. Brown sandy SILT to 0.26 feet. Brown medium-grained sandy GRAVEL to depth.
		10:48	C	NR	NA	0-0.16	Brown sandy SILT to 0.16 feet, shell fragments. Pea gravel to depth.
		10:56	D	NR	NA	0-0.16	Brown sandy SILT to 0.16 feet, shell fragments. Pea gravel to depth.
	10/15/08	16:30	A	9.0	86	0-1	Olive gray slightly sandy SILT to 0.5 foot. Olive gray sandy SILT, abundant shell fragments from 0.5 to 1 foot.
						1-2	Olive gray sandy GRAVEL, abundant shell fragments.
						2-3	Olive gray sandy SILT, few shell fragments. Less than 1% bark.
						3-4	Olive gray sandy SILT, abundant shell fragments. 20% bark.
OB-08	10/5/08	11:22	A	NR	NA	0-0.33	Light brown surface. Dark olive to grayish black silty CLAY. Less than 1% bark.
	10/15/08	17:10	A	6.5	87	0-1	Olive gray sandy SILT. Less than 1% bark.
						1-2	Olive gray silty CLAY.
						2-3	Mottled olive gray and brown silty CLAY.
						3-4	Mottled olive gray and brown silty CLAY.
OB-09	10/3/08	16:10	A	NR	NA	0-0.33	Light brown surface. Dark olive to black SILT. Redox potential depth to 0.20 inches.
	10/5/08	11:38	A	21.3	70	0-1	Dark olive gray clayey SILT. Hydrogen sulfide odor present.
						1-2	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.
						2-3	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.
						3-4	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
OB-10	10/4/08	09:51	A	NR	NA	0-0.33	Light brown surface. Dark olive to black SILT. Redox potential to 0.39 inches. Slight hydrogen sulfide odor present.
	10/5/08	10:55	B	24.0	72	0-1	Dark olive gray clayey SILT. Hydrogen sulfide odor present.
						1-2	Dark olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
						2-3	Olive gray clayey SILT. Less than 1% bark. Hydrogen sulfide odor present.
						3-4	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.
OB-11	10/3/08	09:40	B	NR	NA	0-0.33	Shellfish and shells on surface to 2 inches. Light brown to black SILT, shell fragments. Slight hydrogen sulfide odor present.
		10:00	C	NR	NA	0-0.33	Shellfish and shells on surface to 2 inches. Light brown to black SILT, shell fragments. Slight hydrogen sulfide odor present.
		10:25	D	NR	NA	0-0.33	Shellfish and shells on surface to 2 inches. Light brown to black SILT, shell fragments. Moderate hydrogen sulfide odor present.
	10/7/08	14:45	B	22.6	66	0-1	Dark olive gray slightly silty, gravelly SAND, abundant shell fragments.
						1-2	Dark olive gray slightly silty, gravelly SAND, abundant shell fragments. Less than 1% bark.
						2-3	Dark olive gray slightly silty, gravelly SAND, abundant shell fragments.
						3-4	Dark olive gray slightly silty, gravelly SAND, abundant shell fragments. Hydrogen sulfide odor present.
OB-12	10/4/08	10:34	A	NR	NA	0-0.33	Light brown surface. Dark olive to grayish black clayey SILT. Redox potential to 0.39 inches.
	10/4/08	14:35	A	4.5	71	0-1	Olive gray clayey SILT. Hydrogen sulfide odor present.
						1-2	Olive gray clayey SILT. Less than 5% bark. Hydrogen sulfide odor present.
						2-3	Olive gray silty CLAY.
						3-4	Olive gray silty CLAY to 3.25 feet. Olive gray silty CLAY from 3.25 to 4 feet. 75% sawdust.
	10/20/08	13:55	B	7.5	78	0-1	Olive gray silty CLAY. Hydrogen sulfide odor present. No samples submitted.
						1-2	Olive gray silty CLAY. 5% bark. Hydrogen sulfide odor present. No samples submitted.
						2-3	Olive gray silty CLAY. Hydrogen sulfide odor present. No samples submitted.
						3-4	Olive gray silty CLAY. Hydrogen sulfide odor present. No samples submitted.
						4-5	Olive gray silty CLAY. 50% sawdust.
						5-6	Olive gray silty CLAY. 75% sawdust.
						6-7	Olive gray silty CLAY. 90% sawdust.
						7-8	100% sawdust. No samples submitted.
						8-9	100% sawdust. No samples submitted.
						9-10	100% sawdust to 9.2 feet. No samples submitted.

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
OB-13	10/4/08	11:24	B	NR	NA	0-0.23	Light brown surface. Dark olive to dark gray SILT to 0.23 feet. Gravel layer below.
		11:50	C	NR	NA	0-0.23	Light brown surface. Dark olive to dark gray SILT to 0.23 feet. Gravel layer below.
	10/7/08	16:15	C	7.2	62	0-1	Very dark olive gray to black slighty clayey, gravelly SILT to 0.7 foot. Olive gray clayey SILT, shell fragments from 0.7 to 1.0 foot.
						1-2	Olive gray clayey SILT, shell fragments. Less than 1% bark.
						2-3	Olive gray clayey SILT, shell fragments to 2.8 feet. Slight hydrogen sulfide odor present.
OB-14	10/4/08	13:25	A	NR	NA	0-0.33	Light brown surface. Dark olive SILT to 0.1 feet. Pea gravel layer to 0.16 feet. Dark olive gray coarse-grained SAND to 0.26 feet. Olive gray silty CLAY to depth. Redox potential depth to 0.39 inches.
	10/7/08	14:00	B	11.0	68	0-1	Olive gray clayey SILT.
						1-2	Olive gray clayey SILT to 1.3 feet. Olive gray silty SAND from 1.3 to 2 feet. Less than 1% bark.
						2-3	Olive gray silty SAND to 2.25 feet. Olive gray silty CLAY from 2.25 to 2.6 feet. Olive gray fine- to coarse-grained SAND from 2.6 to 3 feet.
						3-4	Olive gray fine- to coarse-grained SAND to 3.3 feet. Olive gray gravelly SAND, shell fragments from 3.3 to 4 feet.
OB-15	10/16/08	10:04	A	20.2	92	0-4	Olive gray silty CLAY. Hydrogen sulfide odor present from 2 to 4 feet.
OB-16	10/20/08	10:50	B	21.1	88	0-4	Olive gray silty CLAY, few shell fragments. Hydrogen sulfide odor present from 2 to 4 feet.
OB-17	10/3/08	13:04	B	NR	NA	0-0.33	Light brown surface. Dark olive to dark gray silty SAND. Less than 5% bark. Slight hydrogen sulfide odor present.
		13:04	C	NR	NA	0-0.33	Light brown surface. Dark olive to dark gray clayey SAND. Redox potential depth to 0.20 inches. Slight/moderate hydrogen sulfide odor present.
	10/5/08	15:12	A	37.5	92	0-1	Dark olive gray clayey SILT. 15% bark. Hydrogen sulfide odor present.
						1-2	Dark olive gray clayey SILT, shell fragments. Less than 1% bark. Hydrogen sulfide odor present.
						2-3	Olive gray silty CLAY, shell fragments. Less than 1% bark. Hydrogen sulfide odor present.
						3-4	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present.
OB-18	10/3/08	13:50	A	NR	NA	0-0.33	Light brown surface. Dark olive to black SILT, shell fragments. Redox potential to 0.20 inches. Moderate hydrogen sulfide odor present.
	10/5/08	14:35	A	25.9	79	0-1	Dark olive gray clayey SILT, shell fragments. 10% bark. Hydrogen sulfide odor present.
						1-2	Dark olive gray clayey SILT. Less than 5% bark. Hydrogen sulfide odor present.
						2-3	Olive gray silty CLAY, shell fragments. 10% bark, 1% wood fibers. Hydrogen sulfide odor present.
						3-4	Olive gray silty CLAY, shell fragments. Hydrogen sulfide odor present. No samples submitted.
OB-19	10/4/08	09:13	A	NR	NA	0-0.33	Light brown surface. Dark olive to grayish black clayey SILT. Redox potential to 0.20 inches.
	10/5/08	12:23	A	21.0	72	0-1	Dark olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
						1-2	Olive gray clayey SILT, shell fragments. 5% bark. Hydrogen sulfide odor present.
						2-3	Olive gray silty CLAY, shell fragments. Less than 1% bark. Hydrogen sulfide odor present.
						3-4	Olive gray silty CLAY, shell fragments to 4.1 feet. Hydrogen sulfide odor present.

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SEDIMENT SAMPLE RECORD

PROJECT NAME: **Oakland Bay Sediment Characterization Study / 06-03386-007** DATES: **9/29/08 – 10/7/08, 10/14/08 – 10/16/08, 10/20/08**

LOCATION: **Shelton Harbor** CREW: **GC, BC, BH, GI, AS, KG, DP** GEAR: **Van Veen (surface sampling); Vibracore (subsurface sampling)**

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
SH-01	9/29/08	18:05	A	NR	NA	0-0.33	Dark gray brown clayey SAND. Some small shell pieces.
		18:34	B	NR	NA	0-0.33	Dark gray brown clayey SAND. Two half shells on surface.
	10/1/08	11:55	C	NR	92	0-1	Dark olive gray sandy SILT. 10% bark.
						1-2	Light olive gray sandy, clayey SILT, with shell fragments. Hydrogen sulfide odor present.
						2-3	Light olive gray sandy, clayey SILT, with shell fragments.
						3-4	Light olive gray sandy, clayey SILT, with abundant shell fragments.
SH-02	9/30/08	10:40	D	NR	NA	0-0.33	Dark grayish brown sandy SILT. Moderate hydrogen sulfide odor present. Large piece of wood (5 inches), 5% wood chunks.
		10:45	E	NR	NA	0-0.33	Dark grayish brown sandy SILT. Moderate hydrogen sulfide odor present. 5% wood chunks, less than 5% wood fibers.
	10/6/08	15:50	A	8.3	86	0-1	Dark olive gray, slightly sandy, clayey SILT. 15% bark. Hydrogen sulfide and petroleum-like odor present.
						1-2	Dark olive gray clayey SILT, with few shell fragments. 5% bark, less than 1% wood chips. Hydrogen sulfide and slight petroleum-like odor present.
						2-3	Dark olive gray clayey SILT, with some shell fragments. 5% bark. Hydrogen sulfide and slight petroleum-like odor present.
						3-4	Dark olive gray clayey SILT, with some shell fragments to 3.6 feet. Dark olive gray, silty SAND, with shell fragments from 3.6 to 4 feet. Hydrogen sulfide odor present.
SH-03	10/1/08	10:20	A	NR	NA	0-0.33	Light brown surface. Olive gray clayey SILT. Redox potential depth to 0.79 inches. Slight hydrogen sulfide odor present. 5% wood fibers.
SH-04	10/1/08	09:50	A	NR	NA	0-0.33	Light brown surface. Olive gray SILT with trace sand. Redox potential depth to 0.39 inches. Slight hydrogen sulfide odor present. 5% wood fibers.
	10/15/08	09:39	B	17.8	76	0-1	Dark olive gray, clayey SILT. Hydrogen sulfide odor present.
						1-2	Dark olive gray, clayey SILT. 10% sawdust, 1 inch distinct lense. Hydrogen sulfide odor present.
						2-3	Dark olive gray, clayey SILT. 75% sawdust, less than 5% bark. Hydrogen sulfide and petroleum-like odor present.
						3-4	Dark olive gray, clayey SILT. 75% sawdust, less than 5% bark. Petroleum-like odor present.

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
SH-05	10/01/08	09:11	A	NR	NA	0-0.33	Light brown surface. Grayish brown gravelly SILT to 0.26 feet. Grayish brown sandy GRAVEL below. Black organic matter layer at 0.8 inches. Redox potential depth is 0.59 inches. 5% wood fibers.
	10/01/08	09:25	B	NR	NA	0-0.33	Light brown surface. Grayish brown gravelly SILT to 0.16 feet. Grayish brown sandy GRAVEL below. Black organic matter layer at 0.8 inches. Redox potential depth is 0.59 inches. 5% wood fibers.
	10/14/08	17:40	C	13	42	0-1	Grayish brown sandy GRAVEL.
						1-2	Grayish brown sandy GRAVEL to 1.2 feet. Grayish black, gravelly SAND, well-graded from 1.2 to 2.1 feet.
SH-07	10/5/08	12:21	D	NR	NA	0-0.33	Dark olive brown silty SAND to 0.16 feet, with leaves and twigs. Dark olive to dark grayish black sandy CLAY to depth, with rust colored inclusions. Less than 1% wood chunks at surface.
	10/15/08	10:45	B	3.5	67	0-1	Dark olive gray, clayey SILT.
						1-2	Dark brown silty SAND, with shell fragments, occasional gravel, black stained sand.
						2-3	Gray brown sandy GRAVEL.
						3-4	Gray brown sandy GRAVEL to 3.2 feet. Grayish brown gravelly SAND from 3.2 to 3.75 feet.
SH-08	10/6/08	14:45	A	11.5	65	0-1	Very dark olive gray, sandy GRAVEL with cobbles to 0.5 feet. Very dark olive gray clayey SILT from 0.5 to 1.0 foot. Slight hydrogen sulfide odor present.
						1-2	Very dark olive gray clayey SILT, with shell fragments. Slight hydrogen sulfide odor present.
						2-3	Very dark olive gray clayey SILT, with shell fragments. Slight hydrogen sulfide odor present.
						3-4	Very dark olive gray clayey SILT, with shell fragments to 3.25 feet. Very dark olive gray gravelly SAND, shell fragments from 3.25 to 4 feet. Slight hydrogen sulfide odor present.
SH-09	10/01/08	11:21	A	NR	NA	0-0.33	Light brown surface. Dark olive to dark greenish gray sandy SILT. Redox potential depth is 0.59 inches. Some shells on surface.
	10/1/08	13:50	B	4.9	77	0-1	Dark olive gray silty SAND. 1% wood chips.
						1-2	Dark olive gray sandy GRAVEL with silt, cobble layer at 1.4 feet. 2-inch thick layer of leaves and twigs at 1.5 feet.
						2-3	Dark olive gray sandy GRAVEL with silt.
SH-10	9/30/08	13:40	A	NR	NA	0-0.33	Light brown surface. Dark olive sandy SILT. Redox potential depth is 0.79 inches. Less than 5% wood fibers. Some shell fragments, shrimp, and algae.
	9/30/08	13:30	A	12.9	72	0-1	Dark olive gray, clayey SAND, shell fragments. Hydrogen sulfide odor present.
						1-2	Dark olive gray sandy SILT, shell fragments. 20% bark. Hydrogen sulfide odor present.
						2-3	Dark olive gray sandy SILT, shell fragments. 20% bark. Hydrogen sulfide odor present.
						3-4	Dark olive gray sandy SILT, shell fragments. 10% bark.

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
SH-11	10/2/08	10:32	A	NR	NA	0-0.33	Black/brown to dark olive SILT. Redox potential depth is 0.20 inches. 10% wood chips. Moderate hydrogen sulfide odor present. Wood debris layer at 0.16 feet, increase in wood at bottom of sample.
	10/14/07	11:17	B	16.6	69	0-1	Dark olive gray SILT. Less than 5% wood chips. Hydrogen sulfide odor present.
						1-2	Olive gray clayey SILT. Less than 5% wood chips. Hydrogen sulfide odor present.
						2-3	Olive gray clayey SILT to 2.33 feet. Less than 5% wood chips. Dark brown sandy GRAVEL with cobbles from 2.33 to 3 feet. Hydrogen sulfide odor present.
						3-4	Dark brown SILT to 3.33 feet. Less than 1% bark. Dark brown sandy GRAVEL with cobbles from 3.33 to 4 feet.
SH-12	10/2/08	09:40	A	NR	NA	0-0.33	Gray/black surface. Dark olive to black clayey SILT. Redox potential depth is 0.20 inches. 5% wood chips. Moderate hydrogen sulfide odor present.
		09:55	B	NR	NA	0-0.33	Light brown surface. Dark olive to black clayey SILT. Redox potential depth is 0.20 inches. 5% wood chips. Moderate hydrogen sulfide odor present.
	10/2/08	13:20	C	6.2	77	0-1	Olive gray clayey SILT. 10% wood fibers, less than 5% wood chips. Hydrogen sulfide odor present.
						1-2	Olive gray clayey SILT. 10% wood fibers, less than 5% wood chips, less than 1% bark. Hydrogen sulfide odor present.
						2-3	Olive gray clayey SILT. 10% wood fibers, less than 5% wood chips. Hydrogen sulfide odor present.
						3-4	Olive gray clayey SILT. 10% wood fibers. Hydrogen sulfide odor present.
	10/20/08	16:05	A	8.5	94	0-1	Olive gray clayey SILT. Less than 5% wood fibers.
						1-2	Olive gray clayey SILT. Less than 5% wood fibers.
						2-3	Olive gray clayey SILT. Less than 5% wood fibers.
						3-4	Olive gray clayey SILT. Less than 5% wood fibers.
						4-5	Olive gray clayey SILT. Less than 5% bark. Hydrogen sulfide odor present.
						5-6	Olive gray clayey SILT. 5% bark, 10% wood fibers. Hydrogen sulfide odor present.
						6-7	Olive gray clayey SILT. 75% sawdust. Hydrogen sulfide odor present. No samples submitted.
						7-8	100% sawdust. No samples submitted.
						8-9	100% sawdust. No samples submitted.
						9-10	100% sawdust. No samples submitted.
						10-11	Olive gray clayey SILT to 10.4 feet. 85% sawdust.
SH-13	10/5/08	13:21	D	NR	NA	0-0.33	Light brown surface layer. Dark olive to dark greenish black sandy SILT. Redox potential depth to 0.20 inches. Less than 1% fibers. Moderate/strong hydrogen sulfide odor present.
	10/14/08	16:20	A	9.1	85	0-1	Olive gray sandy SILT to 0.8 foot. Less than 1% wood fibers. Olive gray sandy GRAVEL with cobbles, few shell fragments from 0.8 to 1.0 foot. Slight hydrogen sulfide odor present.
						1-2	Olive gray sandy GRAVEL with cobbles, few shell fragments to 1.7 feet. Less than 1% wood fibers. Olive gray clayey SILT from 1.7 to 2 feet. Less than 1% wood chips. Hydrogen sulfide odor present.
						2-3	Olive gray clayey SILT to 2.7 feet. Less than 1% wood chips. Olive gray sandy GRAVEL from 2.7 to 3 feet. Less than 5% wood fibers, less than 5% bark. Hydrogen sulfide odor present.
						3-4	Olive gray sandy GRAVEL to 3.25 feet. Less than 5% wood fibers, less than 5% bark. Olive gray clayey SILT from 3.25 to 4 feet. 5% wood fibers.

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
SH-14	9/30/08	15:05	A	NR	NA	0-0.33	Light brown surface. Dark olive sandy SILT. Redox potential depth is 0.79 inches. 5% bark and 5% chunks of wood. Slight/moderate hydrogen sulfide odor present. Some shells and algae on surface.
	9/30/08	16:08	B	20.9	84	0-1	Dark olive gray sandy SILT, shell fragments. 10% bark. Hydrogen sulfide odor present.
						1-2	Dark olive gray sandy SILT, shell fragments. 10% bark. Hydrogen sulfide odor present.
						2-3	Dark olive gray clayey SILT, shell fragments. 10% bark. Hydrogen sulfide odor present.
						3-4	Light olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
SH-15	10/1/08	15:44	A	NR	NA	0-0.33	Light brown surface. Dark olive gray fine-grained SAND. Redox potential depth is 0.79 inches.
	10/1/08	14:31	A	20.4	78	0-1	Dark olive gray to gray, fine-grained SAND.
						1-2	Dark olive gray to gray, fine-grained SAND, trace amount of shell fragments.
						2-3	Dark olive gray to gray, fine-grained SAND, trace amount of shell fragments.
						3-4	Dark olive gray to gray, fine-grained SAND, trace amount of shell fragments.
SH-16	10/1/08	16:54	A	NR	NA	0-0.33	Light brown surface. Brown to dark gray medium- to coarse-grained SAND. Redox potential depth is 0.59 inches. Surface layer of shells.
	10/2/08	10:05	A	41.4	58	0-1	Tan medium- to coarse-grained SAND, shell fragments to 0.5 foot. Black medium- to coarse-grained SAND, shell fragments from 0.5 to 1.0 foot.
						1-2	Black medium- to coarse-grained SAND, shell fragments.
						2-3	Black medium- to coarse-grained SAND, shell fragments to 2.7 feet.
SH-17	10/15/08	12:50	B	4.9	68	0-4	Dark olive gray clayey SILT to 1.33 feet. Less than 5% wood chips. Dark olive gray gravelly SAND from 1.33 to 2 feet. Dark olive gray sandy GRAVEL from 2 to 2.6 feet. Dark olive gray sandy SILT from 2.6 to 4 feet. 5% bark.
SH-18	10/2/08	11:15	A	NR	NA	0-0.33	Dark olive to grayish black SILT. Redox potential depth is 0.20 inches.
	10/2/08	13:57	A	14.5	68	0-1	Dark olive gray clayey SILT. 10% wood fibers, 5% bark, 5% wood chips. Hydrogen sulfide odor present.
						1-2	Dark olive gray clayey SILT. 10% wood fibers, 5% bark. Hydrogen sulfide odor present.
						2-3	Dark olive gray clayey SILT. 25% wood fibers, 5% bark. Hydrogen sulfide odor present.
						3-4	Dark olive gray clayey SILT. 20% wood fibers, 5% bark. Hydrogen sulfide odor present.
SH-19	10/01/08	13:00	A	NR	NA	0-0.33	Light brown surface. Dark olive to dark grayish green SILT. Redox potential depth is 0.79 inches. Less than 5% bark and 5% wood chips. Slight hydrogen sulfide odor present.
	10/14/08	13:05	B	9.5	77	0-1	Olive gray SILT. Less than 1% wood chips.
						1-2	Olive gray SILT. Less than 1% wood chips.
						2-3	Olive gray SILT to 2.25 feet. Brown SILT from 2.25 to 2.5 feet. Grayish brown sandy GRAVEL with cobbles from 2.5 to 3 feet.
						3-4	Grayish brown sandy GRAVEL with cobbles to 4.1 feet.

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
SH-20	10/01/08	12:28	A	NR	NA	0-0.33	Light brown surface. Dark olive to dark grayish green SILT. Redox potential depth is 0.79 inches. 5% wood fibers. Large crab on surface.
	10/7/08	10:30	B	13.9	76	0-1	Dark olive gray slightly clayey SILT, few shell fragments. Hydrogen sulfide odor present.
						1-2	Dark olive gray slightly clayey SILT, few shell fragments. 5% bark. Hydrogen sulfide odor present.
						2-3	Dark olive gray clayey SILT. Less than 1% bark.
						3-4	Dark olive gray clayey SILT to 3.6 feet. Dark olive gray gravelly SAND from 3.6 to 4 feet.
SH-21	10/01/08	11:45	A	NR	NA	0-0.33	Light brown surface. Dark olive to black clayey SILT. Redox potential depth is 0.20 inches. 5% wood fibers. Slight hydrogen sulfide odor present.
	10/2/08	09:10	A	16.5	77	0-1	Dark brown to black, clayey SILT. 20% wood chips, 5% wood fibers. Hydrogen sulfide odor present.
						1-2	Dark brown to black, clayey SILT. 20% wood chips, 5% wood fibers. Hydrogen sulfide odor present.
						2-3	Dark brown to black, clayey SILT. 20% wood chips, 20% wood fibers. Hydrogen sulfide odor present.
						3-4	Dark brown to black, clayey SILT. 15% wood chips, 30% wood fibers, 25% bark. Hydrogen sulfide odor present.
	10/15/08	14:45	B	7.0	100	0-1	Dark brown to black clayey SILT. 25% bark. Hydrogen sulfide odor present. No samples submitted.
						1-2	Dark brown to black clayey SILT. 25% bark. Hydrogen sulfide odor present. No samples submitted.
						2-3	Dark brown to black clayey SILT. 25% bark. Hydrogen sulfide odor present. No samples submitted.
						3-4	Dark brown to black clayey SILT. 20% bark. Hydrogen sulfide odor present. No samples submitted.
						4-5	Dark brown to black clayey SILT. 5% bark. Hydrogen sulfide odor present.
						5-6	Dark brown to black clayey SILT. Less than 5% bark. Hydrogen sulfide odor present.
						6-7	Dark brown to black clayey SILT. Less than 5% bark. Hydrogen sulfide odor present.
						7-8	Dark brown to black clayey SILT. 5% bark. Hydrogen sulfide odor present.
						8-9	Dark brown to black clayey SILT. Less than 5% bark. Hydrogen sulfide odor present.
						9-10	Dark brown to black clayey SILT. 2% bark. Hydrogen sulfide odor present.
						10-11	Dark brown to black clayey SILT. Less than 5% bark. Hydrogen sulfide odor present.
						11-12	Dark brown to black clayey SILT. 1% bark. Hydrogen sulfide odor present.
SH-22	9/30/08	16:48	A	NR	NA	0-0.33	Light brown surface. Dark olive SILT. Redox potential depth is 0.20 inches. 50% bark. Moderate/strong hydrogen sulfide odor present.
		17:00	B	NR	NA	0-0.33	Light brown surface. Dark olive SILT. Redox potential depth is 0.20 inches. 50% bark. Moderate hydrogen sulfide odor present.
	10/6/08	16:30	A	7.0	81	0-1	Very dark olive gray SILT. 20% bark. Hydrogen sulfide odor present.
						1-2	Very dark olive gray sandy SILT. 25% bark. Hydrogen sulfide odor present.
						2-3	Dark olive gray clayey SILT, shell fragments to 2.5 feet. 40% bark, less than 1% wood chips. Hydrogen sulfide odor present.

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
SH-23	9/30/08	15:43	A	NR	NA	0-0.33	Light brown surface. Dark gray to black sandy SILT. Redox potential depth is 0.20 inches. Less than 5% bark. Slight hydrogen sulfide odor present.
	9/30/08	09:30	A	14.2	84	0-1	Dark olive gray sandy SILT, shell fragments. Less than 5% bark. Hydrogen sulfide odor present.
						1-2	Dark olive gray sandy SILT, shell fragments. 10% bark. Hydrogen sulfide odor present.
						2-3	Dark olive gray sandy SILT, shell fragments. 10% bark. Hydrogen sulfide odor present.
						3-4	Dark olive gray clayey SILT, shell fragments.
SH-24	10/1/08	13:32	A	NR	NA	0-0.33	Light brown surface. Dark olive gray clayey SILT. 50% bark. Slight/moderate hydrogen sulfide odor present.
		13:54	B	NR	NA	0-0.33	Light brown surface. Dark olive gray clayey SILT. 50% bark. Slight/moderate hydrogen sulfide odor present.
		14:54	C	NR	NA	0-0.33	Light brown surface. Dark olive gray clayey SILT. 50% bark. Slight/moderate hydrogen sulfide odor present.
SH-25	10/2/08	12:05	A	NR	NA	0-0.33	Light brown surface. Dark olive to grayish black sandy SILT, shell fragments. Redox potential depth is 0.20 inches. Moderate hydrogen sulfide odor present.
SH-26	9/30/08	12:50	A	NR	NA	0-0.33	Light brown surface. Dark gray sandy SILT. Redox potential depth is 0.39 in. Some shell fragments and twigs.
		13:08	B	NR	NA	0-0.33	Light brown surface. Grayish brown sandy SILT. Dark gray/black layer at 0.08 feet. Grayish brown gravelly SAND below layer. Redox potential depth is 0.39 in. Some shell fragments and twigs.
	10/6/08	12:40	A	13.5	68	0-1	Grayish brown coarse-grained SAND, shell fragments. Slight hydrogen sulfide odor present.
						1-2	Grayish brown coarse-grained SAND, shell fragments. Slight hydrogen sulfide odor present.
						2-3	Grayish brown coarse-grained SAND, shell fragments to 2.5 feet. Very dark gray to black silty SAND from 2.5 to 3 feet. Slight hydrogen sulfide odor present.
						3-4	Very dark gray to black silty SAND to 3.5 feet. Very dark gray to black clayey SILT from 3.5 to 4 feet. Slight hydrogen sulfide odor present.
SH-27	9/30/08	11:55	A	NR	NA	0-0.33	Light brown surface. Dark gray sandy SILT. 5% wood chunks. 20% shell fragments and twigs.
		12:10	B	NR	NA	0-0.33	Light brown surface. Dark gray sandy SILT. 5% wood chunks. 20% shell fragments and twigs.
	10/6/08	11:45	A	13.6	89	0-1	Dark gray to black SILT. 10% bark, 10% twigs.
						1-2	Dark gray to black SILT to 1.6 feet. Olive gray silty SAND from 1.6 to 2 feet. 5% wood chunks, 5% twigs. Hydrogen sulfide odor present.
						2-3	Olive gray gravelly SAND. 5% wood chunks. Hydrogen sulfide odor present.
						3-4	Olive gray gravelly SAND, shell fragments. Less than 1% wood chunks. Hydrogen sulfide odor present.
SH-28	9/30/08	14:29	A	NR	NA	0-0.33	Light brown surface. Dark grayish green sandy SILT. Redox potential depth is 0.79 inches.
	9/30/08	15:04	B	13.9	83	0-1	Dark olive gray sandy SILT. 20% bark. Hydrogen sulfide odor present.
						1-2	Dark olive gray sandy SILT. 10% bark. Hydrogen sulfide odor present.
						2-3	Dark olive gray clayey SILT, some shell fragments. 10% bark. Hydrogen sulfide odor present.
						3-4	Dark olive gray clayey SILT, abundant amount of shell fragments. Less than 5% bark.

STATION LOCATION	DATE	TIME	REP. NO.	WATER DEPTH (ft)	% REC	SAMPLE INTERVAL [a] (ft)	CHARACTERISTICS (COLOR, TYPE, DEBRIS, ODOR)
SH-29	10/1/08	16:19	B	NR	NA	0-0.33	Light brown surface. Brown to dark gray fine- to medium-grained SAND. Redox potential depth is 0.98 inches. Surface layer of shells.
	10/6/08	10:38	B	37.4	92	0-1	Dark gray to black slightly silty fine- to medium-grained SAND, shell fragments. No samples submitted.
						1-2	Dark gray to black slightly silty fine- to medium-grained SAND, shell fragments. Less than 1% bark.
						2-3	Dark gray to black slightly silty fine- to medium-grained SAND, shell fragments. Less than 5% bark. Hydrogen sulfide odor present.
						3-4	Dark gray to black slightly silty fine- to medium-grained SAND, shell fragments. Hydrogen sulfide odor present.
SH-30	10/1/08	17:15	A	NR	NA	0-0.33	Light brown surface. Dark olive gray to dark gray clayey SILT. Redox potential depth is 0.59 inches. Slight hydrogen sulfide odor present. Shrimp, hermit crab, and worms present.
	10/2/08	11:45	A	26.1	83	0-1	Dark gray clayey SILT, shell fragments. 5% bark. Hydrogen sulfide odor present.
						1-2	Olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
						2-3	Olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.
						3-4	Olive gray clayey SILT, shell fragments. Hydrogen sulfide odor present.