APPENDIX A. FIELD FORMS, FIELD NOTES, PHOTOS, COCS, AND PCB POREWATER FORMS

Field Forms

1.1

Project Name:	AOC3	Project no.: Surface sediment
Date:	2/22/18	Weather: 305, Sunny
Sampling Method:	power grab	Crew: TD, RM, KM

LOCATION	Location ID: 60W18-55-001				
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom & depth (pr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
05340 0545/0549	41.5/41.5/39.4	NA	NININ	washed out, cobbles	
0858/0901/0905	314/454/44.3	NA/NA/16cm	NIN/Y	First 2 washed out / 3rd within 10m	
SAMPLE DATA	Sample ID: LDL	118-55-00	21	* · · · · · · · · · · · · · · · · · · ·	
Sediment type cobble grave trace sand (F (W C) site trace clay	Sediment color brown surface drab olive brown gray black	Sediment od none slight moderate strong	lor H₂S petroleum other:	Comments: Shell Fragments, hormit Lieb, worm tubes, fl'Dinot visible	

LOCATION	Location ID:	SSOOZ		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)Ff	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0921	24.6'	23 cm	У	
SAMPLE DATA	Sample ID: C	0w18-55	-002.	
Sediment type cobble gravel sand (F/M C) silt clay	Sediment color brown surface drab olive brown gray	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: shell fragments, wirm tubes, leff liter, brown surface RPD: nut visible

Project Name:	ADC3	Project no .: Suctace Sediment
Date:	2/22/18	Weather. 301, SUNNY
Sampling Method:	power grab	Crew: TD, KM, RM

LOCATION	Location ID: 55-003					
Latitude/Northing	I(Y):			Longitude/Easting(X):		
Time of sample	Bottom f.J depth_(m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
0939	31.7	20	Y			
SAMPLE DATA	Sample ID: U	DW18-55	-003			
Sediment type cobble gravel sand FM C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Worms, clam, shell fragments, Plant material RPD: not visible		

LOCATION	Location ID: SS-004				
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottomff depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
0952	43.3	25	У		
SAMPLE DATA	Sample ID: 60	w/8-55-	004		
Sediment type cobble gravel sand (F (M) C) silt clay	Sediment color brown surface drab olive brown gray Jark black	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: WORMS, RPO: Not MSIGE	

Project Name:	ADC3	Project no.:	Sediment sampling	
Date:	2/22/18		30s, sunny	
Sampling Method:	power grab		TD, KM, KM	

LOCATION	Location ID:	Location ID: 55-008				
Latitude/Northing	(Y):			Longitude/Easting(X):		
Time of sample	Bottom depth (m)++	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
1005/1009/1012	51.1/51.1/50.8	NA	N/N/N	rock in jaws / washed out / washed out		
1023/1029	53.2/50.0	NA/16cm N/Y		Washed out / successful within 10 m		
SAMPLE DATA	Sample ID: 6	Sample ID: 104/8-55-008				
Sediment type cobble gravel sand (F (M)c)	Sediment colo brown surface drab olive brown	r Sediment or none slight moderate	dor H₂S petroleum other:	Comments: shell fragments, barnacles, broken RPD: not visible		
silt clay	gray darle black	strong		collected grain STZE QC- one extra jar		

LOCATION	Location ID: 55-007					
Latitude/Northing	I(Y):			Longitude/Easting(X):		
Time of sample	Bottom depth (m) 4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
1043	49.7	26	y			
SAMPLE DATA	Sample ID: L	DW18-55	-007			
Sediment type	Sediment color	Sediment of		Comments:		
cobble	brown surface	none	H₂S	crab, worms, shell Aragments,		
gravel	drab olive	slight	petroleum	RPD: not visible		
sand (MC)	brown	moderate	other:			
silt	gray Jark	strong				
clay	black					

Project Name:	AOC3	Project no.: 5	ediment sampling
Date:	2/22/18	Weather: 3	Os, Sunny
Sampling Method:	piwer grab	Crew: 73	D, KM, EM

LOCATION	Location ID: 55-006					
Latitude/Northing	(Y):			Longitude/Easting(X):		
Time of sample	Bottom depth (m)+7	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
1056	46.7	26	У			
SAMPLE DATA	Sample ID: 60	1W18-55-	006			
Sediment type	Sediment color	Sediment or	dor H₂S	Comments: WORMS, Wood debris		
gravel	drab olive brown	slight moderate	petroleum other:	RPD: not visible		
silt	gray dark	strong				

LOCATION	Location ID:	Location ID: SS-OZS					
Latitude/Northing	(Y):			Longitude/Easting(X):			
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments			
1116	26.4	25	У				
SAMPLE DATA	Sample ID: L	0~18-55	5-025	1			
Sediment type cobble gravel	Sediment color	Sediment of none	dor H ₂ S petroleum	Comments: Shell fragments, worms, wood debris + organic Mitter			
	brown	moderate	other:	RPD: not visible			
clay	black	strong					

Project Name:	AOC3	Project no.:	Sediment sumpling	
Date:	2/22/18	Weather:	30s, sunny	
Sampling Method:	power grab	Crew:	TD, KM, KM	

LOCATION	Location ID: 55-026					
Latitude/Northing	(Y):		Longitude/Easting(X):			
Time of sample	Bottom depth (m) A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
1125/1129	40.3/40.3	NA/NA	NIN	insufficient penetration / winnowed		
1/32	40.3	15	Y			
SAMPLE DATA	Sample ID: 60	W18-55	5-026			
Sediment type cobble gravel sance (MC) silt clay	Sediment color brown surface drab olive brown grav dark black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: barnacles, crabs, shell fragments, worms KPD: not wisible		

LOCATION	Location ID:	55-027		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1144	42.8	23	Y	
SAMPLE DATA	Sample ID: LL	W18-55-0	027	
Sediment type cobble gravel sand I (C) sitt	Sediment color brown surface drab olive brown gray dor le	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Worms, Shell fragments, organic Matter RPD: not visible
clay	black			

Project Name:	ADC3	Project no .: Sediment Sampling	
Date:	2/22/18	Weather: 305, Sunny	
Sampling Method:	power grab	Crew: TD, KM, RM	

LOCATION	Location ID: ~			
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (pr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1230	17.1	29	У	
SAMPLE DATA	Sample ID: 6	DW18-55-	032	
Sediment type cobble gravel sand D M C) silt clay	Sediment color brown surface drab olive brown gray dark black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Organic matter, stell fragments KPD: not visible

LOCATION	Location ID:	5-033		T
Latitude/Northing	(Y):		·	Longitude/Easting(X):
Time of sample	Bottom depth (mc	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1240	42.9	17	У	
SAMPLE DATA	Sample ID: LC	W18-55	-033	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H ₂ S	trace Shell fragments, worms
gravel	drab olive	slight	petroleum	RPD: not visible
SandEMO	brown	moderate	other:	/····
silf frace	gray	strong		
clay	black			

Project Name:	AOC3	Project no.;	Sediment Sampling	
Date:	2/22/18	Weather:	30s Sunny	
Sampling Method:	pinici grab	Crew:	TD, KM, RM	

LOCATION	Location ID:	55-034		
Latitude/Northing	(Y):		Longitude/Easting(X):	
Time of sample	Bottom depth (m77	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1250	32.9	22	У	
SAMPLE DATA	Sample ID: L	OWI8-SS	-034	
Sediment type cobble gravel sand (FM)C) silf clay	Sediment color brown surface drab olive brown gray Jack black	Sediment of none Slight moderate strong	dor H ₂ S petroleum other:	Comments: trace shell fragments, orgenic nates Worms RPD: not visible

LOCATION	Location ID:	5-035		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (priff	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1258	37.2	25	Y	
SAMPLE DATA	Sample ID: L	DW18-55	5-035	
Sediment type cobble gravel sand FMPC) sill clay	Sediment color brown surface drab olive brown gray dow k black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Frace organic matter, trace shell fragments, wirms RPD: not visible

Project Name:	AOC3	Project no .: rediment sampling
Date:	2/22/18	Weather: 30s, Sunny
Sampling Method:	power grab	Crew: TD, KM, KM

LOCATION	Location ID:	55-036		
Latitude/Northing	(Y):		Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1308	31.1	27	У	
SAMPLE DATA	Sample ID:	0w18-55	-036	
Sediment type cobble gravel sand(FM C)	Sediment color brown surface drab olive brown	none slight moderate	dor H₂S petroleum other:	Comments: organic matter, trace shell fragments, worms RPD: nit visible
clay	gray) dork black	strong		

LOCATION	Location ID: 55-037					
Latitude/Northing	(Y):			Longitude/Easting(X):		
Time of sample	Bottom depth (m)77	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
1320	3.7	24	У	shallow water adjacent Kellogg Island		
SAMPLE DATA	Sample ID: 6	OW18-55	5-037			
Sediment type cobble	Sediment color brown surface	Sediment of	dor H ₂ S	Comments: organic matter, trace Shell fragments		
gravel	drab olive	slight moderate	petroleum other:	RPD: bolow 3 cm		
silt	gray black	strong				

Project Name:	AOC3	Project no .: Sediment sampling
Date:	2/22/18	Weather: 30s, Sunny
Sampling Method:	power grab	Crew: TD, KM, RM

LOCATION	Location ID:	55-038	042	
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (mp)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
134 Z	18.5	26	У	barge on target - collected ~18 ft away
SAMPLE DATA	Sample ID: L	DW18-55.	-038-042	
Sediment type	Sediment color	Sediment of	dor H ₂ S	Comments: Irganic matter, Worms
gravel	drab olive	slight	petroleum	KID: not visible
sand (E M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

LOCATION	Location ID:	55-043		M
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) (c)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1351	23.3	22	Y	
SAMPLE DATA	Sample ID: L	NW18-55-	043	
Sediment type	Sediment color	Sediment of	dor H₂S	Comments: trace organic Matter, worms
gravel sand (F) M C)	drab olive brown	slight moderate	petroleum other:	RPD: not visible
silt	gray date	strong		
clay	black			

Project Name:	AOC3	Project no.:	Sediment sampling	
Date:	2/22/18	Weather:	305, Sunny	
Sampling Method:	power grab	Crew:	TD, KM, RN	

		vm			
LOCATION	Location ID:	55-052	051		
Latitude/Northing	I(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1410	12.8	30	У		
SAMPLE DATA	Sample ID:	0W18-55	-452. 051		
Sediment type	Sediment color	Sediment of	dor	Comments:	
cobble	brown surface	none	H₂S	organic matter, shrimp	
gravel	drab olive	slight	petroleum	RPD: not visible	
sand DM C)	brown	moderate	other:	NO NOT VISIONE	
silt	gray dark	strong			
clay	black				

LOCATION	Location ID:	55-064	*	
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1431	35.0	21	Y	grab 2 (grab 1 not successful - washed
				out)
SAMPLE DATA	Sample ID: L	OW18-55	5-064	
Sediment type cobble grave sand FMCP silt clay	Sediment color brown surface drab olive brown gray black	Sediment of noné slight moderate strong	dor H₂S petroleum other:	Comments: organic matter, shell Aragments, worms RPD: not visible

Project Name:	ADC 3	Project no .: Sediment sampling
Date:	2/22/18	Weather: 30s, Sunny
Sampling Method:	power grab	Crew: TD, RM, KM

LOCATION	Location ID:	55-069		
Latitude/Northing(Y):			Longitude/Easting(X);	
Time of sample	Bottom depth (pri) for	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1441	32.0	30	У	Collected field duplicate
SAMPLE DATA	Sample ID:	W18-55-0	069, LOI	W18-55-069-FD
Sediment type cobble gravel sand (F) M C)	Sediment color brown surface drab olive brown	Sediment of none slight moderate	dor H₂S petroleum other:	Comments: organic matter, trace shell Aragments, worms RPD: not hisible
clay	gray dark black	strong		

LOCATION	Location ID:			
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
			_	
SAMPLE DATA	Sample ID:			
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H₂S	Eng
gravel	drab olive	slight	petroleum	2/27
sand (F M C)	brown	moderate	other:	Comments:
silt	gray	strong		
clay	black			

Project Name:	AOC3	Project no .: Susface soliment sampling
Date:	2/23/18	Weather: 28°F, porty sunny
Sampling Method:	power grab	Crew: JR, RM, KM

LOCATION	Location ID:	55-038		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0821	8.2	25	Y	
SAMPLE DATA	Sample ID: 📿	DW18-55-	038	í
Sediment type cobble gravel Sand F M C) Silt clay	Sediment color brown surface drab olive brown gray black	r Sediment or none slight moderate strong	dor H2S petroleum other:	Comments: Shell fragments, basnacles, trace organic metter RPD: not visible

LOCATION	Location ID: 55-065					
Latitude/Northing	(Y):			Longitude/Easting(X):		
Time of sample	Bottom depth (m) fr	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
0854	34.4	26	Y	1		
					_	
SAMPLE DATA	Sample ID: LL	DW18-55	-065		_	
Sediment type	Sediment color	Sediment o		Comments:		
cobble	brown surface	none	H₂S	Worms		
gravel	drab olive	slight	petroleum	Worms RPD: not visible		
sand (F M C)	brown	moderate	other:			
silt	gray	strong				
clay	black	1				

Project Name:	AOC3	Project no .: Sediment sampling	
Date:	2/23/18	Weather: 28 F, party sunny	
Sampling Method:	powergrab	Crew: JR, RM, KM	_

LOCATION	Location ID:	55-067		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0120	40.9	23	У	
SAMPLE DATA	Sample ID: L	OW18-55-	-067	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H₂S	trace shell fragments, sheen
gravel	drab olive	slight	petroleum	
sand (EMC)	brown	moderate	other:	
silt	gray dark	strong		RPO: O"7cm
clay	black			

LOCATION	Location ID:	55-068		10
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0936	32.5	26	У	
SAMPLE DATA	Sample ID: 11	W18-55.	-068	
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment of	dor H₂S petroleum	Comments: organic Mutter, MUSSel
sand FM C)	brown gray	moderate strong	other:	RPD: not visible
clay	black			

Project Name:	FLOC 3	Project no .: Sediment sampling	_
Date:	2/23/18	Weather: 30° F, cloudy	
Sampling Method:	power grab	Crew: JR, RM, KM	_

LOCATION	Location ID:	55-106			
Latitude/Northing	(Y):			Longitude/Easting(X):	-
Time of sample	Bottom depth (m)[]	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
0956	26.6	24	Y		
SAMPLE DATA	Sample ID: L	PW18-55-	- 106		
Sediment type	Sediment color	Sediment of	dor	Comments:	
cobble	brown surface	Pene KM	H2S	organic Matter	
gravel	drab olive	slight)	petroleum		
sand F MC	brown	moderate	other:	RPD: not visible	
Silt	gray dark	strong			
clay	black				

LOCATION	Location ID:	55-107		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1018	14.5	25	Y	
SAMPLE DATA	Sample ID: Lu	W18-55.	-107	
Sediment type cobble gravel sand (F (M C) silt)	Sediment color brown surface drab olive brown gray dark	Sediment odor none H ₂ S slight petroleum moderate other:		Comments: Irganic Matter, wood debris, worms RPD: not usible
clay	black	strong		

Project Name:	ADC3	Project no.:	sediment sampling	
Date:	2/27/18	Weather:	30°F, cloudy	
Sampling Method:	power grab	Crew:	JR, RM, KM	

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1054	25.8	29	Y	
SAMPLE DATA	Sample ID: L	DW18-SS	-108	
Sediment type cobble	Sediment color brown surface	none	H₂S	Comments: organic matter, worms
sill	brown	slight moderate strong	petroleum other:	RPD: not visible
clay	black	-		

LOCATION	Location ID:	55-109		vi
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1104	27.9	22	У	
SAMPLE DATA	Sample ID: 4	.OW18-5	5-109	
Sediment type cobble gravel sand Corror	Sediment color brown surface drab olive brown	Sediment of none slight moderate	dor H₂S petroleum other:	Comments: Shell fragments, trace organic Matter
silt	gray Jak black	strong		RPD: not visible

Pr	oject Name:	

Date:

AOC 3 2/23/18 Sampling Method: power grab

Project no.: Sc diment sampling Weather: 32°F, Cloudy Crew: JR, RM, KM

LOCATION	Location ID:	55-110		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) F	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1114	12.1	29	Y	
SAMPLE DATA	Sample ID: LL	DW18-55-1	110	
Sediment type cobble gravel sand (C) M C) silt clay	Sediment color orown surface drab olive brown gray Jack black	none slight moderate	dor H ₂ S petroleum other:	Comments: organic matter, worms RPD: not visible

LOCATION	Location ID:	55-111		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1120	9.3	27	У	
SAMPLE DATA	Sample ID: L	0W18-55-	- // /	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H₂S	worms, oil sheen,
gravel	drab olive	slight	petroleum	
sand FM C) (brown	moderate	other:	RPD: not visible
silt	gray	strong		
clay	black			

Project Name:	AOC3	Project no .: Sediment Sampling
Date:	2/23/18	Weather: 32°F, cloudy
Sampling Method:	power grab	Crew: JR, RM, KM

LOCATION	Location ID:	rs-112		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1128	11.9	23	Y	
SAMPLE DATA	Sample ID:	W18-55.	112	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H₂S	algae, trace shell fragments
gravel	drab olive	slight	petroleum	
SandFMC	brown	moderate	other:	Real in the south la
silt	gray	strong		RPD: not visible
clay	black			

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) (Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1139	15.4	26	Y	
SAMPLE DATA	Sample ID: L	DW18-5.	5-114/	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H₂S	Worms, course sand in clumps - redish yellow in color
gravel	drab olive	slight	petroleum	yellow in color
sand (F M C)	brown	moderate	other:	RPD: not visible
silt	Gray	strong		
clay	black			

Project Name:	ADC3	Project no .: Sediment sampling	
Date:	2/23/18	Weather: 32°F, cloudy	-
Sampling Method:	power grab	Crew: JR, RM, KM	-

	LOCATION	Location ID:	13mm S	5-113	
	Latitude/Northing				Longitude/Easting(X):
	Time of sample	Bottom depth (m) 14	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
	1148	14.0	NA	N	overprinetrated
	1153	14.0	27	Y	U VU PUIEHRAJEO
	SAMPLE DATA	Sample ID: L	OWI8-SS.	-113	
not included for aliquotics	Sediment type Cobble gravef Sand (F)M C) Silt clay	Sediment color brown surface drab olive brown gray			Comments: oil sheen RPO: not visible.

LOCATION	Location ID:	55-115		
Latitude/Northing	g(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1208	23.6	27	Y	Comments
SAMPLE DATA	Sample ID: L	0~18-55	-115	
Sediment type cobble gravel and M C) silt clay	Sediment color forwn surface drab olive brown gray d < classical black	Sediment or none slight moderate strong	l or H ₂ S petroleum other:	Comments: oil sheen, organic Matter, worms RPO: not visible

Project Name:	AOC3	Project no :	Sediment sampling
Date:	2/23/18		33.F, cloudy
Sampling Method:	power grab		TR, RM, KM

	LOCATION	Location ID:	55-116	117	
	Latitude/Northing		have		Longitude/Easting(X):
	Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
	1223/1226/122	8 5.9	NA	N	
	1232	12.5	20	У	Cobbles in jaws LIDm off farget to avoid cobbles
not aliguoted	SAMPLE DATA Sediment type	Sample ID: LD Sediment color	Sediment or	lor	Comments:
ALIPOOLES	gravel Sand DOC	drab olive	slight moderate	H₂S petroleum other:	RPD: not visible
,	clay	gray black	strong		

LOCATION	Location ID:	55-118	1	
Latitude/Northing	I(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	
1312	13.5	22	У	Comments
SAMPLE DATA	Sample ID: C	LOW18-55	-118	
Sediment type cobble gravel and FM C)	Sediment color brown surface drab olive brown	Sediment or none slight moderate	for H ₂ S petroleum other:	Comments: Organic Matter, wirm tubes
lt) ay	gray black	strong		RPD: @ 1.5 cm

Project Name:	AOC 3	Project no .: Sediment Strapling
Date:	2/23/18	Weather: 35.F. clivdy
Sampling Method:	prwer grab	Crew: JR, PM, KM

Latitude/Northing	Location ID:			Law to the second second
Time of sample	Bottom depth (m);;;; 6.6	Penetration depth (cm) 22	Acceptable sample (Y/N)	Longitude/Easting(X): Comments
SAMPLE DATA Sediment type cobble gravel sand For Co sill frace clay	Sample ID: LU Sediment color Grown surface drab olive brown gray black	Sediment od none slight moderate strong		Comments: worm tubes, RPD: not visible

LOCATION		55-120		
Latitude/Northing	J(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m).f.f	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1327	5.9 <i>f</i> +	25	Y	Connients
SAMPLE DATA	Sample ID: L.	DW18-5	5-170	
Sediment type cobble gravel sand (F)(M)C)	Sediment color brown surface drab olive brown			Comments: burnacle, worm tubes
silt	gray black	strong		RPD: @ 2.3 cm

Project Name:	AOC3	Projection Co. / Co.	
Date:	2/23/18	Project no: Scotiment Sampling Weather: 35°F, cloudy	_
Sampling Method:	power grab	Crew: JR, RM, KM	_

Latitude/Northing	q(Y):			
Time of sample	Bottom depth (pmp) /.9	Penetration depth (cm) 27	Acceptable sample (Y/N)	Longitude/Easting(X): Comments
SAMPLE DATA Sediment type cobble gravel sand FMC silt clay	Sample ID: LU Sediment color brown surface drab olive brown gray gray black	Sediment od none slight moderate strong		Comments: RPD: not visible

Latitude/Northing	<u>g(Y):</u>			Longitude / Frank
Time of sample	Bottom depth (m)C	Penetration depth (cm)	Acceptable sample (Y/N)	Longitude/Easting(X):
1350	22.2	25	Y	Comments
SAMPLE DATA Sediment type cobble gravel sand F M C) sill clay	Sample ID: LU Sediment color brown surface drab olive brown gray dark black	Sediment od None slight moderate strong		Comments: Warms, warm tobes RPO: not usible

Project Name:	AOC3	Project no la califactional
Date:	2/23/18	Project no .: Cediment Sampling
Sampling Method:	power grab	Weather: 35°F, cloudy Crew: JR, RM, EM

LOCATION	Location ID:	55-+22.	174	
Latitude/Northing)(Y):	IGM	1-1	Longitude/Feetler W
Time of sample	Bottom depth (m)A	Penetration depth (cm)	Acceptable sample (Y/N)	Longitude/Easting(X):
140.5	16.0	25	Y	Conments
SAMPLE DATA Sediment type cobble gravel sand (C) M C) silt clay	Sample ID: 64 Sediment color brown surface drab olive brown gray challe black	Sediment od none slight moderate strong	H ₂ S petroleum other:	Comments: Worms, Worm tubes, trace Shell fragments, organic matter RPD: not visible

Latitude/Northin	g(Y):			Longitude/Easting (W)
Time of sample	Bottom depth (m)(4	Penetration depth (cm)	Acceptable sample (Y/N)	Longitude/Easting(X):
14141405VM	5.0	24	Y	
SAMPLE DATA Sediment type cobble gravel sand F M C sill <i>Hrace</i> clay	Sample ID: LL Sediment color Orown surface drab olive brown gray black			Comments: Worms, Organic Matter RPO: not Visible

Project Name:	AOC 3	
Date:	2/23/18	Project no .: Sediment Sampling
Sampling Method:	power grab	Weather: 36°F, cloudy
		Crew: PBKM JR. RM.KM

Time of sample	Bottom depth (m)	Penetration	Acceptable	Longitude/Easting(X):
1433	13.9	depth (cm) 25	sample (Y/N)	Comments
AMPLE DATA ediment type obble avel nd D M C) y	Sample ID: 60 Sediment color brown surface drab olive brown gray black			Comments: Worm tobes, oil sheen RPD: not visible

Latitude/Northin	Sec.			opgitude/E
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Longitude/Easting(X): Comments
SAMPLE DATA	Sample ID:			
Sediment type cobble gravel and (F M C) ilt lay	Sediment color brown surface drab olive brown gray black	Sediment od none slight moderate strong	or H ₂ S petroleum other:	Comments: Km 2/23/18

Project Name:	ADC3	Project no.:	Task	4			
Date:	02.23.17	Weather:					
Sampling Method	preumatic grab sample	Crew:	Nina	Maas	Rache	Crawfo	rd

Sampling Method: prelumatic gralo sample

ner:	405	,0000	casi	the second second	
ew:	Nina	Maas	Rachel	Craw	Port
	Thai	Do			

GRAB DATA	Location ID:	T107 17	Gol out.	all		
Latitude/Northing	a(Y):		5	Longitude/Easting(X):		
Grab time	Bottom (P depth (P1)	Penetration depth (cm)	Acceptable grab (Y/N)	Benthic (Community Subsample ID	Comments
0933	5.5	(1	Y			Grabb
SAMPLE DATA	Sample ID: U	WIB -	550T-T	107Pa	rK	
Pre-homogenizat	tion analyses (circ	le): VOC	Sulfides An	nmonia A	VS/SEM TPH-P	Other:
Sediment type cobble grave sand (F)(1)(C)	Sediment colo brown surface drab olive brown gray	no	ght	H₂S petroleum other:	Comments: algae, wood de isolated pocket RPD not visil organic mat Rield durp c LDW18-550	bis is of sheen ole tee ollected
clay	black				LDW18-550	F- TID7Park-1

GRAB DATA	Location ID:	79					
Latitude/Northing	g(Y):			Longitude/Easting(X):			
Grab time	Bottom ff depth (pri)	Penetration depth (cm)	Acceptable grab (Y/N)	Benthic (Community Subsample	Comments	
1148	24'10"	24	Y			Gras 3	
SAMPLE DATA	Sample ID: L	DW18-	55179				
Pre-homogenizat	tion analyses (cire	cle): VOC	Sulfides Am	imonia A	VS/SEM TPH-P C	Other:	
Sediment type cobble gravel sand (F, M C) Silt clay	Sediment colo brown surface drab olive brown Gray black	non sligi	ht derate	H₂S petroleum other:	Comments: RPD not visit worms, trace lab grain siz	ole 2 org debris 2e QC collecteo	

Project Name:	AOC3	Project no.:	Task 4
Date:	02.23.19		30's - overcast
Sampling Method:	pneumatic grab samples	Crew:	Niva Maas, Rachel Crawford
			Than Do

LOCATION	Location ID:	J. The	5 atta	
Latitude/Northing	(Y):		Longitude/Easting(X):	
Time of sample	Bottom G depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1239	6.0	16	Y	Biras 4
SAMPLE DATA	Sample ID: U	DW18-	SSOT-5	th AVES
Sediment type cobble gravel sand (F(M) C)	Sediment color brown surface drab olive brown	Sediment or none slight moderate	dor H₂S petroleum other:	Comments: trace organic moderial RPD not visible extra vol. collected for lab grain size QC.
clay	gray black	strong		lab grain size QC.

LOCATION	Location ID:	84		
Latitude/Northing	(Y):		Longitude/Easting(X):	
Time of sample	Bottom depth (pt)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1326	8'2"	24	Y	finb 5
SAMPLE DATA	Sample ID: U	WIB-9	55-184	
Sediment type cobble gravel same (Fun C)	Sediment color brown surface drab olive brown	slight moderate	dor H₂S petroleum other:	Comments: RPD 0-2 CM worm tubes trace shell fragments and organic material
clay	gray black	strong		organic motor -

Project Name:	ADC3	Project no.:	Task	14		
Date:	02.23.18	Weather:	30'5,	overce	ast	
Sampling Method	preumatic grabs	sampler crew:	Nina	Maas	Pachel	Coanford
	J	1	Thai			

LOCATION	Location ID:	2109-1	outfall	
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (pr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1403	5'9"	15	Y	
SAMPLE DATA	Sample ID: L	-DW18-	5507-2	409-1
Sediment type cobble gravel cand (F/M) C) citt	Sediment color brown surface drab olive brown gray-Slight	Sediment of none slight moderate strong		Comments: RPD not visible trace plant debris & organic matter worms / worn tubes
clay	black	strong		

LOCATION	Location ID:	109-2	ortal	1
Latitude/Northing	(Y):	Acr. 1. 14	Longitude/Easting(X):	
Time of sample	Bottom CH depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1427	<i>A.D</i>	15	Ý	
SAMPLE DATA	Sample ID:			
Sediment type cobble gravel sand (F(M) C) (silt) clay	Sediment color brown surface drab olive forown gray black	Sediment of none slight moderate strong	dor H ₂ S petroleum other:	Comments: RPD not visible worms, worm tubes trave plant debus and organic material brick fragment

Project Name:	ADC3	Project no.: TASK 4
Date:	02,23.18	Weather: 30's arriast
Sampling Method:	preservic grab-sample	Crew: Nina Maas, Rachel Crawford.
	J. 1	This Do

GRAB DATA	Location ID:	169		-			
Latitude/Northing	a(Y):			Longitude/Easting(X);			
Grab time	Bottom depth (m).P	Penetration depth (cm)	Acceptable grab (Y/N)	Benthic C	Community Subsample ID	Comments	
1515	21'	14	Y			Brab Z	
SAMPLE DATA	Sample ID:	DW18-5	55-160	1			
Pre-homogenizat	tion analyses (circ	cle): VOC	Sulfides Am	monia A	VS/SEM TPH-P O	ther:	
Sediment type cobble gravel sand (F) M C)	Sediment colo brown surface drab olive brown	none	it p erate d	H₂S petroleum pther:	Comments: RPD Not visible Sheli fragmits tr- org. mite	jurprinis, vicul	
clay	black						

GRAB DATA	Location ID:				
Latitude/Northing	g(Y):		Longitude	e/Easting(X):	/
Grab time		etration Accepta th (cm) grab (Y		Community Subsample	Comments
_			TDA		_
SAMPLE DATA	Sample ID:	AND	Dr. Mr.	\$	
Pre-homogenizat	tion analyses (circle):	vpd Sulfides	V	VS/SEM TPH-P Othe	er:
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odd none slight	n H₂S petroleum	Comments:	
sand (FMC)	brown gray	moderate	other:		
clay	black	Jung			

Project Name:	ADC3	Project no.: TUSK 4
Date:	02.26.18	Weather: partly dividy, 30's
Sampling Method:	pheumetic grab se	

LOCATION	Location ID:005					
Latitude/Northing	(Y):			Longitude/Easting(X):		
Time of sample	Bottom (H depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
0750	41.7	18.5	Y			
SAMPLE DATA	Sample ID: LT	WIB-55	-005		_	
Sediment type cobble gravel sand (F M C) sill clay	Sediment color brown surface drab olive brown gray black	Sediment of nore slight moderate strong	dor H₂S petroleum other:	Comments: worms, shell firigments RPD nut visible		

LOCATION	Location ID:	09		
Latitude/Northing				Longitude/Easting(X):
Time of sample	Bottom (H depth (pr)(H	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0809	26-1	22	Y	
SAMPLE DATA	Sample ID: U	W18-55	-0009	
Sediment type cobble gravel sand/F/M C)	Sediment color brown surface drab olive brown	Sediment of pone slight moderate	dor H₂S petroleum other:	Comments: Worms, trace plant bubis RPD not visible
silt	black	strong		

Project Name:	ADC3	Project no.: Task 4
Date:	02.20.19	
Sampling Method:	pneumatic grib samples	Weather: partly cloudy, 30's Crew: N Maas, R Coauford, T DO

LOCATION	Location ID:	HO TR	1015	
Latitude/Northing	(Y):	10		Longitude/Easting(X):
Time of sample	Bottom Cit depth (pr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0025	23:2	20	Y	
SAMPLE DATA	Sample ID: 4	>W18-	SS-OND	TO 015
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Tr. sheli fragments, worms RPD met visible

LOCATION	Location ID:	010		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr) 9	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0856	57.6	16	¥	
SAMPLE DATA	Sample ID: U	W18-4	-010	
Sediment type cobble gravel sand (FM) C) silt	Sediment color brown surface drab olive brown gray	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: shell fragments, brick fragment. RPD not visible
clay	black			

Project Name:	ADC3	Project no.:	TASK 4
Date:	02,26.18	Weather:	ptly cloudy, 30's
Sampling Method:	preymetric grass samplae		N Maas, & Crawford, T Do

LOCATION	Location ID:	014		
Latitude/Northing	I(Y):		10	Longitude/Easting(X):
Time of sample	Bottom depth (m)(H	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0913	49.0	19	r	
SAMPLE DATA	Sample ID: LD	W18-55	-014	
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of slight moderate strong	dor H₂S petroleum other:	Comments: RPD not visible

LOCATION	Location ID: (039		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0941	9.7	n	Y	
SAMPLE DATA	Sample ID: Lt	W18-45	- 039	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	Aone	H₂S	tr. org. material, worms, worm tubes RPD not visible
gravel	drab olive	slight	petroleum	RPD not visible
sand	brown	moderate	other:	
silt	gray	strong		
clay	black			

Project Name:	ADC3	Project no.: TASK 4
Date:	02.26.18	Weather: 30's, ptly cloudy.
Sampling Method:	poeumatic gint samplar	Veather: 30's, ptly cloudy. Crew: N. Maris, R. Crauford, TDD

LOCATION	Location ID:	040		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pf)(4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0956	9.6	17	Y	SMS Location
SAMPLE DATA	Sample ID: L	DW18-	35-040	
Sediment type cobble gravel sand (F) M C) silt clay	Sediment color brown surface drab olive brown gray black		dor H₂S petroleum other:	Comments: RPD not visible trace plant/would debois

LOCATION	Location ID:	045		
Latitude/Northing	(Y):			Longitude/Easting(X);
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1015	9.7	16	¥.	
SAMPLE DATA	Sample ID: LD	W18-9	55-045)
Sediment type cobble gravel sand (F) M C)	Sediment color brown surface drab olive brown gray	Sediment or none slight moderate strong	dor H₂S petroleum other:	comments: shull fragments, tr. would definis RPD not visible
clay	black			

Project Name:	ACC3	Project no.:	TASK 4
Date:	02.26.18	Weather:	30's, partly dardy
Sampling Method:	pneumatic grab sampl		N. Maas, T.DO, & Crawfird

LOCATION	Location ID:	046		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (mff	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1028	9.9	16	Y	
SAMPLE DATA	Sample ID: U	7W18 -5	5-1046	
Sediment type cobble gravel sand (F M C) (silt)	Sediment color brown surface drab olive brown	Sediment of none slight moderate	dor H₂S petroleum other:	Comments: tr. org. moderial RPD not visible
clay	gray black	strong		

LOCATION	Location ID:	01-1		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pi)(4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1045	9.7	12	Ý	
SAMPLE DATA	Sample ID: U	718-5	5-047	
Sediment type cobble gravel sand (FM)C) sitt frau clay	Sediment color brown surface drab-olive brown gray black	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: RPD not visible

Project Name:	ADC3	Project no.:	TASK 4
Date:	02.26.18	Weather:	30's sauth clark
Sampling Method:	pneumatic grab samples	Crew:	30's, partly cloud, N. Maas, T.Do, R. Coauford

LOCATION	Location ID: Ø40					
Latitude/Northing	(Y):			Longitude/Easting(X):		
Time of sample	Bottom depth (m):(4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
1105	15.9	iB	r	grab #2		
SAMPLE DATA	Sample ID: L	W18-5	5-048			
Sediment type cobble gravel sand (F)(A)(5) (silt) clay	Sediment color brown surface drab olive brown gray black	inface one H ₂ S		Comments: trace shell fragments RPD not visible		

	Location ID:			La contra de la co	
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (pa)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1133	49.B	20	Y		
SAMPLE DATA	Sample ID: び	W18-5	5-011		
Sediment type cobble gravel sand (F) M C) silt clay	bble trown surface drab olive brown surface drab olive slight petroleum moderate other:		dor H₂S petroleum other:	Comments: Errauful coals caught in jaws. grave shell fragments & plant/wood delim RPD not visible	

Project Name:	ADC3	Project no.:	Task 4
Date:	02 26.18	Weather:	20's, partly cloudy
Sampling Method:	precementic grab sample	Crew:	N. Maas, R. Crawfird, T Do

LOCATION	Location ID: 012				
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (mft	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1150	26.5	17	Ý		
SAMPLE DATA	Sample ID: UC	W18- 5	5-012		
Sediment type cobble +. grave) +r sand FMC sill +r. clay	Sediment color brown surface drab olive brown gray black			Comments: shell hash, worms, tr. org. matter RPD not visible	

LOCATION	Location ID:	123		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1340	8.4	17	2	WASHED OUT FROM COMPSE MATERIALS, NO FI
1355	8.4	17	Ý	
SAMPLE DATA	Sample ID: 17	W18-5	5-123	
Sediment type cobble	Sediment color brown surface	Sediment or	lor H₂S	Comments: trace leaf litter RPD nut visible
gravel sand((F/M)/C)	drab olive	slight petroleum moderate other:		RPD not visible
silt	gray	strong		
clay	black			

Project Name:	ADC3	Project no.:	TASK 4
Date:	02.26.18	Weather:	40s, partly glordy
Sampling Method:	pneumatic gub sampler	Crew:	40s, partly cloudy N. Mais, R. Crawford, T. Do

LOCATION	Location ID:	2.7		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) 4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1414	26.6	20	Y	
SAMPLE DATA	Sample ID:	DW 18-2	-127	
Sediment type cobble gravel sand (F) (A) (C) Silt + (Sediment color brown surface drab olive brown gray black	6000	dor H ₂ S petroleum other:	Comments: tr. shell fragments, worm tobes RPD not visible

LOCATION	Location ID:	20		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) Q	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1426	22.4	24	Ý	
SAMPLE DATA	Sample ID: Lt	W18-5	5-128	
Sediment type cobble gravel sand (F) (C) Sill	Sediment color brown surface drab olive brown gray	Sediment of none slight moderate strong		Comments: RPD not visible tr-org.matchial
clay	black			

Project Name:	ADC3		Project no.:	TASK 4
Date:	02.26.1	K	Weather:	405 partly dordy
Sampling Method:	preumatic	guab samples	Crew:	ADS, partly dordy N Mais, R Cranford, T Do

LOCATION	Location ID:	129		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom Ct depth (m) Ct	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1439	28.2	25	Y	
SAMPLE DATA	Sample ID: Lt	- 81W	55-129	
Sediment type cobble gravel sand (FMC) filt clay	Sediment color frown surface drab olive brown black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Have org. mederial, worms RPD 0-2 cm

Latitude/Northing	(Y)·			Longitudo/Ensting(X):
Time of sample	Bottom depth (mpf)	Penetration depth (cm)	Acceptable sample (Y/N)	Longitude/Easting(X): Comments
1504	17.6	21	Y	
SAMPLE DATA Sediment type cobble (Sample ID: Sediment color	Sediment of		Comments: worm tubes, tr. org. muller RPD not visible
sand (F(M)C)	drab olive brown gray	slight moderate strong	petroleum other:	RPD not visible
clay	black			

Project Name:	A003	Project no.:	TASK4
Date:	02,26.18	Weather:	40's partly cloudy
Sampling Method:	prementic grab samples	Crew:	40's partly cloudy N Maas, & Crawford, TDD

LOCATION	Location ID:	132		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (mA	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1517/1520	17.9	730	N/N	overpenetrated/werpenetrated
1575	17.9	16	Y	
SAMPLE DATA		DW18-	5-132	
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: worm tubes, tr.org. mittler & plant debis RPD not visible

LOCATION	Location ID:	133		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (prof	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1539	9.0	19	Y	
SAMPLE DATA	Sample ID: U	DW18-5	5-133	
Sediment type cobble gravel sand FM C) sill H	Sediment color brown surface drab olive brown gray	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: worm tubes, trace org marker RPD not visible

1)

Project Name:	ROC3	Project no.:	TASK 4
Date:	02.27.10	Weather:	overcast, 405
Sampling Method:	preumatic grab somp		N Maas, R Muthonnet, TDo

LOCATION	Location ID:	093			
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m/) (4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
OBTS	19.8	24	Y		
SAMPLE DATA	Sample ID:	DWIB-S	5-093		
Sediment type cobble gravel sand (F)M C) (silt) clay	Sediment color brown surface drab olive brown gray dr.	Sediment or none slight moderate strong	dor H ₂ S petroleum other:	Comments: RPD not visible	

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m).A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0855	9.9	25	Ý	grab HZ
SAMPLE DATA	Sample ID: U	W18-55	SOT-Seat	leDisctr
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray dit black	Sediment or none slight moderate strong	petroleum other:	Comments: tr. leaf/plant debuis RPD not visible

Project Name:	ADC3	Project no.:	TASK 4
Date:	02.27.10	Weather:	overcast, 405
Sampling Method:	preumatic grab sample		N Maas, R Mathemat, TDo

LOCATION	Location ID:	45			
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m/) A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
0952	10.0	21	Y	grab #Z	
SAMPLE DATA	Sample ID:	2W18-5	5-145		
Sediment type cobble gravel sand (F)M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Tr. ovg. mederial RPD not visible	

LOCATION	Location ID:	49		
Latitude/Northing				Longitude/Easting(X):
Time of sample	Bottom depth (m/.(4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1011	22.1	20	Ý	
SAMPLE DATA	Sample ID:	DW18-5	5-149	
Sediment type cobble	Sediment color brown surface	Sediment or	dor H₂S	Comments: RPD not visible
gravel sand (FMC)	drab olive	slight moderate	petroleum other:	EPD not visible trace plant definits
Stury .	gray	strong		
clay	black			

Project Name:	ROC3	Project no.:	TASK 4
Date:	02.27.10	Weather:	overcast, 405
Sampling Method:	pneumatic grab sample	Crew:	N Maas, R Methonnet, TDo

1 - 414				
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (ŋ/).ff	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1027	9.1	17	Y	grab #2
SAMPLE DATA Sediment type cobble gravel sand (F) M C)	Sample ID: LT Sediment color brown surface drab olive brown	Sediment of none slight moderate	-	Comments: RPD not visible tr. org. material at surface.
sill	gray black	strong	ound),	

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (ŋ/) (4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1043	23.1	15	K.	
SAMPLE DATA	Sample ID: 1	W18-55	5-151	
Sediment type cobble gravel sand (F (G C) Silv clay	Sediment color brown surface drab olive brown gray black	Sediment of one slight moderate strong	dor H₂S petroleum other:	Comments: RPD 3 cm to depth tr. Org. materia (plant) leaf debus.

Project Name:	AOC3	Project no.:	TASK 4
Date:	02.27.10	Weather:	overcast, 405
Sampling Method:	presimatic grab sou		N Maas, R. Methonnet, TDo

LOCATION	Location ID:	52			
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m/ ft	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1100	15,9	24.5	Ŷ	gmb #2	
SAMPLE DATA	Sample ID:	2W18-5	5-152		-
Sediment type cobble gravel sand (F)M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: tr. org. moderial RPD not visible	

	Location ID:	- 1		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m/) (4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
MIO	8.1	18	Y	
SAMPLE DATA	Sample ID: U	DWIB-5	5-154	
Sediment type cobble gravel sand (F) M C) sill clay	Sediment color brown surface drab olive brown gray black	Sediment of slight moderate strong	dor H₂S petroleum other:	Comments: tr-org metericip RPD not visible

Project Name:	NOC3	Project no.:	TASK 4
Date:	02.27.10	Weather.	overcast, 405
Sampling Method:	presimatic grab semple		N Maas, R Methonnet, TDo

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (ŋr) (H	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1124	13.9	17.5	Ý	
SAMPLE DATA	Sample ID:	2W18-5	5~153	
Sediment type cobble gravel sand (F) M C) sill clay	Sediment color brown surface drab olive brown gray	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Tr. Org. mederial RPD to N Z.cm.

The Avenue Avenue of	Location ID:			1
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr) (7	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1152	24.4	18.5	Y	
SAMPLE DATA	Sample ID: U	DW18-55	5-159	
Sediment type cobble gravel sand (F) (A) C) Sill (C) clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: tr- arg milling RPD not visible

Project Name:	NOC3	Project no.:	TASK 4
Date:	02.27.10	Weather:	overcast, 405
Sampling Method:	pneumatic grab somplee		N Maas, R Methonnet, TDo

LOCATION	Location ID:	60			
Latitude/Northing	(Y):			Longitude/Easting(X):	-
Time of sample	Bottom depth (m/) (d	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1210	6.7	19	Y		
SAMPLE DATA	Sample ID:	DWIB-S	5-160		
Sediment type cobble gravel sand (F) M C) (ilt) clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: tr- org masterial RPD not visible.	

Latitude/Northing	(Y):		(Longitude/Easting(X):
Time of sample	Bottom depth (ŋ/).ff	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1231	13.9	16	Y	grab #3
Sediment type cobble gravel sand (F) M C) silt	Sediment color prown surface drab olive brown gray	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: tr. örgenic moder RPD not visible

-6-

Project Name:	NOC3	Project no.:	TASK 4
Date:	02.27.10	Weather:	overcast, 405
Sampling Method:	presimatic grab semple		N Maas, R Mathemat, TDO

LOCATION	Location ID:	J.1		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m///4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1245	17.8	145	Y	
SAMPLE DATA	Sample ID:	2W18-5	5-157	
Sediment type cobble gravel sand (F_M) C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of slight moderate strong	dor H₂S petroleum other:	Comments: Trace organic meterial, worm, test little RPD not visible

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr)(4			Comments
1300	8.8	17	Y	grab #2
SAMPLE DATA	Sample ID:	DW18-55	5-156	
Sediment type cobble gravel fm FM C) clay	Sediment solor brown surface drab olive brown gray black	Sediment or none slight moderate strong	lor H ₂ S petroleum other:	Comments: shell.frag., tr. org. make RPD not visible

Project Name:	AOC3	Project no.:	TASK 4
Date:	02.27.10	Weather	DUPTINET INC.
Sampling Method:	presimenti i grab somplee	Crew:	N Maas, R. Methonnet, TDo

Latitude/Northing	3(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) G	Penetration depth (cm)	Acceptable sample (Y/N)	
1311	5.9	16	Ý	Comments
AMPLE DATA ediment type obble ravel and (F)(O C) ay	Sample ID: L'I Sediment color brown surface drab olive brown gray black	Sediment of Sediment of slight moderate strong	C. F. Market Street Street	Comments: SMS LOCATION tr. organic material RPD not visible

Latitude/Northing	(Y):			Longitude IT in the
Time of sample	Bottom depth (m).A	Penetration depth (cm)	Acceptable sample (Y/N)	Longitude/Easting(X):
1342	5.3	11	Y	grab # 4
SAMPLE DATA Sediment type cobble iravel and FOC C)	Sample ID: Sediment color browa surface drab olive brown gray black	Sediment of none slight moderate strong	The second s	Comments: hard-jack sand/sitt mix. RPD not visible.

Project Name:	AOC3	Project no.:	
Date:	02.27.10		TASK 4
Sampling Method:	presentati grab semple	Crown	overcast, 405
	1. Jun conspice	Crew:	N Maas, R Methonnet, TDo

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m/f4	Penetration depth (cm)	Acceptable sample (Y/N)	
1355	1.1	20	Y	Comments
SAMPLE DATA Sediment type cobble gravel + sand (F M C)	Sample ID: L'I Sediment color brown surface drab olive brown	Sediment od none slight moderate strong		Comments: trace organic master; trace leaf lite RPD not visible

Latitude/Northin	9(Y):		1	Longitude/Easting(X):
Time of sample	Bottom depth (m/).p	Penetration depth (cm)	Acceptable sample (Y/N)	
1433	16.8	20	Ŷ	Grab #2
SAMPLE DATA	Sample ID: U	W18-55	16	4
Sediment type cobble iravel	Sediment color brown surface drab olive	Sediment od		Comments: amphipod RPD not visible

Project Name:	AOC3	Deplect	and the second sec
Date:	01.07.10	Manut	TASK 4
Sampling Method:	presimatic grab semple	- Crew:	N Maas, R Mathemat, TDo

LOCATION	Location ID:	55		
Latitude/Northing				Line
Time of sample	Bottom depth (m).ft	Penetration depth (cm)	Acceptable sample (Y/N)	Longitude/Easting(X):
1445	18.9	21	Y	Comments
SAMPLE DATA	Sample ID:	2W18-5	5-155	
Sediment type nobble ravel and (F)(C) ay	Sediment color brown surface drab otive brown gray black	Sediment of slight moderate strong		Comments: tr org involencel RPP not visible

LOCATION	Location ID:			/
_atitude/Northing			1.2.2	
Time of sample	Bottom depth (m/_ff	Penetration depth (cm)	Acceptable sample (Y/N)	Longitude/Easting(X):
AMPLE DATA ediment type	Sediment color brown surface	W 18-55 Sectiment odo none	r H ₂ S	Comments:
avel nd (F M C)	drab efive brown gray black	slight moderate strong	petroleum other:	

Project Name:	Acc3	Project no .: Sediment sampling
Date:	2/28/18	Weather: 40 s, cloudy
	power grab	Crew: JR, RM, ICM

LOCATION	Location ID:	55-134			
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom F4 depth (m) F4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
0833	10.5	26	У		
SAMPLE DATA	Sample ID: L	DW18-55	-134		
Sediment type cobble gravel sand(FMC) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of slight moderate strong	dor H₂S petroleum other:	Comments: Worms, Oil sheen RPD: not visible	

LOCATION	Location ID:	55-135			
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom ff	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
0843	10.6	27	Y		
SAMPLE DATA	Sample ID: L	OW18-55	-135	1	
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment o	dor H₂S petroleum	Comments: Warms, oil Sheen	4
sand (F)M C) silt clay	brown	moderate strong	other:	RPD: 0 1.5 cm	

Project Name:	AOC3	Project no .: sediment sampling
Date:	2/28/18	Weather: 40s, cloudy
Sampling Method:	power grab	Crew: JR, RM, EM

LOCATION	Location ID:	5-136		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom A depth (pr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0852	14.9	26	Y	
SAMPLE DATA	Sample ID: L	NW18-55	-/36	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H₂S	shell Fragments, worms, worm
gravel	drab olive	slight	petroleum	tubes
sand (F)M C)	brown	moderate	other:	
silt	gray Jark	strong		RPP: not visible
clay	black			

LOCATION	Location ID:	55-166		
Latitude/Northing	(Y):		<pre></pre>	Longitude/Easting(X):
Time of sample	Bottom G depth (pr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0920	8.4	NA	N	washed out
0922	8.4	29	Y	
SAMPLE DATA	Sample ID: L	1W18-55	-166	
Sediment type cobble gravel Hrace sand (F (MC) silt	Sediment color brown surface drab olive brown	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Shell Fragmants (trace) RPD: not visible
clay	black			

Project Name:	AOC3	Project no .: Sedsment sampling
Date:	2/28/18	Weather: 40s, cloudy
Sampling Method:	power grab	Crew: JR, RM, KM

LOCATION	Location ID: SS-167					
Latitude/Northing	(Y):			Longitude/Easting(X):		
Time of sample	Bottom depth (m) A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
0930	9.5	28	У			
SAMPLE DATA	Sample ID:					
Sediment type	Sediment color	Sediment of	dor H₂S	Comments:		
gravel	drab olive	slight	petroleum other:	RPD: not visible		
sand (FM) C)	gray	moderate	other.			
clay	black					

LOCATION	Location ID:	55-168		
Latitude/Northing	(Y):	S		Longitude/Easting(X):
Time of sample	Bottom depth (m) A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0938	12.4	NA	N	washed out
0940	12.4	25	Y	
SAMPLE DATA	Sample ID:			
Sediment type cobble grave Hrtle sand EMC silt clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: frace organic matter RPD: not nsible

Project Name:	AOC3	Project no .: Scoliment sampling
Date:	2/28/18	Weather: 40s, raining
Sampling Method:	power grab	Crew: JR, RM, KM

LOCATION	Location ID:	5-165		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) (g	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0958	11.0	28	Y	attempted 2/27/18 ~6 ft off target
0 100				to avoid previous sampling Incations
SAMPLE DATA	Sample ID: L	0W18-55	- 165	I
Sediment type	Sediment color	Sediment o	dor	Comments:
cobble	brown surface	none	H ₂ S	organic matter
graved trace	drab olive	slight	petroleum	
sand EDO	brown	moderate	other:	RPO: not visible
silt	gray	strong		
clay	black			

LOCATION	Location ID:	55-140		1
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1015	18.1	26	У	
SAMPLE DATA	Sample ID: 5	Sjem LD	W18-55-1	40
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment o	dor H₂S petroleum	Comments: Worms, worm tubes, organic mafter
san (FM C) silt (clay)	brown gray dark black	moderate strong	other:	RPD: Or2cm

Project Name:	AOC3	Project no .: Sediment simpling
Date:	2/28/18	Weather: 40s, rain
Sampling Method:	power grab	Crew: JR, RM, KM

LOCATION	Location ID: 55-139					
Latitude/Northing	(Y):		-	Longitude/Easting(X):		
Time of sample	Bottom depth (mic)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
1025	6.6	24	Y			
SAMPLE DATA	Sample ID: L	DWI8-SS.	-139			
Sediment type	Sediment color	Sediment of	dor	Comments:		
cobble	brown surface	none	H ₂ S	organic matter, oil sheen		
gravel	drab olive	slight	petroleum			
sand FM C)	brown	moderate	other:	RPD: not visible		
silt	gray	strong		Kru: not Visible		
clay	black					

LOCATION	Location ID: 55-138					
Latitude/Northing	(Y):			Longitude/Easting(X):		
Time of sample	Bottom H depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
1034	18.5	29	Y			
SAMPLE DATA	Sample ID: C	OW18-55	-/38			
Sediment type	Sediment color	Sediment of	dor	Comments:		
cobble	brown surface	none	H ₂ S	Shell fragments, Worms		
gravel	drab olive	slight	petroleum			
sand FM C)	brown	moderate	other:	RPD: not visible		
silt	Gray Jank	strong				
clay	black					

Project Name:	AOC3	Project no .: Sediment sampling	_
Date:	2/28/18	Weather: 40s, rain	_
Sampling Method:	power grab	Crew: TR, RM, KM	-

LOCATION	Location ID:	5-137		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)C	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1042	18.4	25	У	
SAMPLE DATA	Sample ID: L	OW18 - 5	5-137	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H ₂ S	shell fragments, worms, worm tubes
gravel	drab olive	slight	petroleum	tubes
(sand () M C)	brown	moderate	other:	
sand (F) M C) sill	gray dark	strong		RPD: not no ible
clay	black			

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1118	26.0	NA	N	ner penetrated
1122	26.0	23	Y	
SAMPLE DATA	Sample ID:			
Sediment type cobble gravel sand (F) (C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: organic metter, worms, shell fragments RPD: not visible

Project Name:	AOC3	Project no .: Sediment Sampling
Date:	2/28/18	Weather: 40s, rain
Sampling Method:	power grob	Crew: JR, NM, KM

LOCATION	Location ID:	55-105		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1133	22.4	26	Y	burges adjacent: "3.6 m of larget
SAMPLE DATA	Sample ID:	1	1	
Sediment type cobble gravel (Sand (F) M C) (Silt) clay	Sediment color brown surface drab olive brown gray black	Sediment or none slight moderate strong	dor H2S petroleum other:	Comments: Organic Matter, Worms, oil sheen RPD: not visible

LOCATION	Location ID:	55-102		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom C - depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1151	12.9	NA	N	over penetrated
/153	12.9	29	Y	
SAMPLE DATA	Sample ID: L	NW18 - 55	-102	
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment of none slight	dor H₂S petroleum	Comments: Organic Metter, oil sheen
clay	brown gray dark black	moderate strong	other:	RPD: not visible

Project Name:	AOC3	Project no.:	Sediment sempling	
Date:	2/28/18		40s, showers	
	power grab	Crew:	JR, RM, KM	

LOCATION	Location ID:	55-101		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) A-	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1204	28.2 25 Y		Y	SMS location
SAMPLE DATA	Sample ID: L	OWIE-SS	5-101	
Sediment type cobble gravel sand(F)(M)C)	Sediment color brown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other:		Comments: Shell fragments, organic matter, worms
sitt	gray black	strong		RPD: not visible

LOCATION	Location ID:	55-100		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom A depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1237	18.3	26	У	
SAMPLE DATA	Sample ID: C	OWI8-55	5-100	
Sediment type cobble gravel sand (P (P C) Silt clay	Sediment color brown surface drab olive brown gray black	Sediment of slight moderate strong	dor H₂S petroleum other:	Comments: oil sheen, shall frugments, patches of black silt, organic Matter, worms RPD: no visible

Project Name:	AOC.3	Project no.:	Sodiment Sampling
Date:	2/28/18	Weather:	40s, rain
	power grab	Crew:	JR, RM, KM

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) f4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1251	7.4	28	У	
SAMPLE DATA	Sample ID: L	DW18-55	-098	
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum		Comments: Oil Sheen, Worms
silt clay	brown gray black	moderate strong	other:	RPD: @ 1.5 cm

Latitude/Northing	(V)·			Longitude/Easting(X):
Time of sample	Bottom depth (m)Cf	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1306	35.6	25	Y	
SAMPLE DATA	Sample ID: 6	DWI8-SS	-092	
Sediment type cobble gravel sand (F (F) C)	Sediment color brown surface drab olive brown	or Sediment odor		Comments: Siculpin, graceful crab, Warms, trace organic matter
clay	gray black	strong		RPD: nut unsible

Project Name:	AOC3	Project no .: Sediment sampling
Date:	2/28/18	Weather: 40s, rain showers
Sampling Method:	power grab	Crew: JR, PM, KM

LOCATION	Location ID: S	0011		Lansitude/Easting(X):
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) G	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1320	8.6	22	У	SMS location
SAMPLE DATA	Sample ID: LA	DW18-55	-091	
Sediment type cobble	Sediment color brown surface	none	H_2S	Comments: Mussel shells
gravel sand (F)M C)	drab olive brown	slight moderate	petroleum other:	RPD: @ ~1.5cm
silt) clay	gray black	strong		KPD G VII SCH

LOCATION	Location ID: 5	5-089		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample		Penetration depth (cm)	Acceptable sample (Y/N)	Comments
(337	23.0	25	Y	
SAMPLE DATA	Sample ID: L	DW18-55	5-089	
Sediment type cobble grave sand (F (M) C) silt	Sediment color brown surface drab olive brown gray dark	Sediment o none slight moderate strong	H₂S petroleum	Comments: Worms, shell fragments, Mussels, barnacles REPD: not visible

Project Name:	ADC3	Project no .: Sediment Sampling
Date:	2/28/18	Weather: 405, rain Showers
	power grab	Crew: JR, RM, KM

LOCATION	Location ID:	55-087		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1348	24.7	28	Y	
SAMPLE DATA	Sample ID: L	PW18-S	s -087	
Sediment type cobble gravel sand (F) M C) silt	Sediment color brown surface drab olive brown gray black	r Sediment o none 14M slight moderate strong	H₂S petroleum	Comments: Warms, Shell Fragments, barnacles RPD: not visible

atitude/Northing	(X).			Longitude/Easting(X):
Latitude/Northing Time of sample	Bottom depth (ang)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
(358	35.3	29	Y	
SAMPLE DATA	Sample ID:			
Sediment type cobble gravel sand (F) M C) sill	Sediment color brown surface drab olive brown gray black	Sediment odor none H2S slight petroleum moderate other: strong		Comments: Oil sheen, trace organic Matter RPD: no visible

Project Name:	AOL3	Project no.:	Sediment sampling
Date:	2/28/18		40s, rain
Sampling Method:	plwer grab	Crew:	JR, RM, KM

LOCATION	Location ID:	55-095			
Latitude/Northing	I(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1429	28.0	25	Y		
SAMPLE DATA	Sample ID: 6	OW18-55	-095		
Sediment type	Sediment color	Sediment of	dor	Comments:	
cobble gravel	brown surface drab olive	none (slight)	(H₂S) petroleum	shamp	
(sand (E'M)C)	brown (gray) de chie	moderate	other:	RPD. nut mobile	
clay	black				

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) G -	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1442	35.0	23	У	~ 8m off target due to bridge states
SAMPLE DATA	Sample ID:	OW18-58	5-090	
Sediment type cobble gravel sand (E (M) C) silt clay	Sediment color brown surface drab olive brown gray datk black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Shell fragments, Shring, trace organic matter RPD: nit usible

Project Name:	AQC3	Project no.:	TASK4
Date:	02.2818	Weather:	
Sampling Method:	pneumatic grab sampler	Crew:	N Maas, R Crawford, T DO

Project Name: Date: Sampling Method:	AQC3 02.281,8 pneumatic		Weath	o: TASK4 er: w: N Maas, R Crawford, T DO
LOCATION	Location ID:	187		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (ŋr)A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0829	12.5	23	¥.	
SAMPLE DATA	Sample ID:	DW18-55	-187	
Sediment type cobble gravel sand (F(M) C) sill 27 07 clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: trail org. matter and plant/leaf debois RPD not visible. Field duplicate collected UDW18-55-187-PD

LOCATION	Location ID:	188		
Latitude/Northing	(Y):		Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0915	ררו	23	¥	
SAMPLE DATA	Sample ID: C	W185	5-188	
Sediment type cobble gravel cand(F)(M) C)	Sediment color brown surface drab olive	Sediment of	dor H₂S petroleum other:	Comments: trale and matter and traf little RPD not disible
silt) trace clay	gray black	strong		

Project Name:	AUC'3	Project no.:	TASK 4
Date:	02.28.19	Weather:	orrebeast, 405
Sampling Method:	pneumatic grab sampler	Crew:	N Maas, & Crawford, TDo

LOCATION	Location ID:	Ditch # 2	2 outfail		
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)-	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
oguty	8.5	21	Ý	Errab Z	
SAMPLE DATA	Sample ID: U	W18- 4	OT-Ditch	2	
Sediment type cobble gravel sand (FMC)	Sediment color brown surface drab olive brown	Sediment of none slight moderate	dor H₂S petroleum other:	Comments: de composed wood throughout, traile org. metter RIPD not visible	
sill trall clay	gray black	strong			

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m).	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1015	0	10	¥	hand converted at shoreline, top 10
				(Grub 3)
SAMPLE DATA	Sample ID: L	DW18-9	SOT-DI	WSD3
Sediment type cobble gravel sand (F/M C) silt clay	Sediment color brown surface drab olive brown grav black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Veaf littler and organic moderial RPD 2-3 cm depti.

Project Name:	AOC3	Project no.:	TASK4
Date:	02.28.18	Weather:	405, light rain
Sampling Method:	pneumentic grab samples	Crew:	N. Maas, R. Crawford, TDO

Latitude/Northing	(Y)-			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1039	7.6	16	Y	41 ft. form outfail, Grab 3
SAMPLE DATA	Sample ID:	DW18-5	50T-210	DA-1
Sediment type cobble gravel sand (F) M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: 0-2 cm brown sinface layer of tr. 2 material 2-4 cm decomposing leaf litter, PF

LOCATION	Location ID:	ZIDDA		4	
Latitude/Northing	(Y):		Longitude/Easting(X):		
Time of sample	Bottom depth (m)(4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1101	5.8	14	Y	~90 A. from outfail	
SAMPLE DATA	Sample ID:	XW18-9	50T-ZIQ	0A-Z	
Sediment type cobble gravel sand (F M C) sill clay	Sediment color brown surface drab olive frown gray	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: leaf litter RPD not visible	

Project Name:	A0C3	Project no.:	TACK4
Date:	02.25.18	Weather:	overeast, 405
Sampling Method:	preumatic good samples	, Crew:	N Maas, & Crauford, T DD

LOCATION	Location ID: 2	201		¥
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1123	6.4	20	¥	Evrab Z
SAMPLE DATA	Sample ID:	WiB-9	550T-21C	
Sediment type cobble gravel sand (F(M)C) (silt) clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: traile orgenational, tr plant debus RPD not visible.

LOCATION	Location ID:	86		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr)(4	Penetration _depth (cm)	Acceptable sample (Y/N)	Comments
1209	9.7	lle	Y	
SAMPLE DATA	Sample ID:	DW18-59	5-186	
Sediment type cobble gravel fut sand (F)M C) Silt	Sediment color brown surface drab olive brown gray	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: with debats trace leaf littler, shell fragments RPD NOT VILIBLE
clay	black			

Project Name:	AOC3	Project no.:	TASK 4		
Date:	02.28.18	Weather:	40's, light	intermident	vain
Sampling Method:	pneumotic grab samples	Crew:	N. Maas, P.	Crauford, T	Do

LOCATION	Location ID:	85		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m): (Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1227	10.6	18	¥	
SAMPLE DATA	Sample ID:	DW18-55	-185	
Sediment type cobble grave sand (F)(A)(C) (Site)	Sediment color brown surface drab olive brown	Sediment of slight moderate strong	dor H₂S petroleum other:	Comments: leaf litter, shell fragments RPD not visible
clay	black			

Latitude/Northing	(Y):		1	Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1323	9.9	16	F	
SAMPLE DATA	Sample ID:	DW18-5	SOT-Clea	nScapes B
Sediment type cobble gravel sand (F M C) Silt clay	Sediment color brown surface drab olive brown gray black	Sediment odor Jone H ₂ S slight petroleum moderate other: strong		Comments: Wood/plant debrief shell fragments RPD not visible

Project Name:	AOC3	Project no.:	TASKY
Date:	02.28.18	Weather:	40's light rain
Sampling Method:	pneumatic grab samples		N. Maas, R. Crawford, T Do.

LOCATION	Location ID:	Dawn Fo	oods out	fail	
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1352	16.8	17	Y		_
SAMPLE DATA	Sample ID: U	DW18-5	SOT- Day	onFoods	
Sediment type cobble graver sand (F)M C) (silt	Sediment color brown surface drab olive brown	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: plant/wood debris RPD NOT visible	
clay	black				

LOCATION	Location ID:	80		
Latitude/Northing	ı(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1410	11.5	24.5	Y	
SAMPLE DATA	Sample ID:	DW18-5	5-180	
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray dt. black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Shell frag:, tr. plant/wood delm. RPD not visible

Project Name:	AUC3	Project no.:	TASK 4
Date:	02.20.1B	Weather:	40s, light rain
Sampling Method:	preminatic into samples	Crew:	N. Maris, 12 Coonford, TDo

LOCATION	Location ID:	.81		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (npr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1432	12.5	27	Y	
SAMPLE DATA	Sample ID:	DWIB-S	5-181	
Sediment type cobble gravel trace sand (F M C) silt clay	Sediment color brown surface drab olive brown gray ddd black	Sediment of slight moderate strong	dor H₂S petroleum other:	Comments: tr-wood debris & orig. material RPD not usible

LOCATION	Location ID:	82		20.10
Latitude/Northing	(Y):		OV	Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
		/		
SAMPLE DATA	Sample ID:	W18-4	5-182	
Sediment type cobble gravel sand (F M C)	Sediment color brown surface drab olive brown	Sediment of none slight moderate	dor H ₂ S petroleum other:	Comments:
silt clay	gray black	strong		

Project Name:	AOC3	Project no.:	Sediment sempling	_
Date:	3/1/18	Weather:	40°F, sunny	_
Sampling Method:	power grab	Crew:	JR, RM, KM	

LOCATION	Location ID:	55-094		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (mc)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0822	20.0	28	Y	colled B re-randomized loc. 2
SAMPLE DATA	Sample ID: C	. OW18	55-094	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H₂S	oil sheen, organic matter
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		RPD: not-visible
clay	black			

LOCATION	Location ID:	55-116		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) f	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0842	24.2	26	У	collected @ R. randomized loc. 2
SAMPLE DATA	Sample ID:	W18-5	5-116	
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray fack black	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: <i>Organic matter, trace shell</i> <i>fragments</i> <i>RPD: not visible</i>

Project Name:	AOC3	Project no.:	sedrment sampling	
Date:	3/1/18		40s, sunny	
Sampling Method:	powergrab	Crew:	JK, RM, ICM	

LOCATION	Location ID:	55-130		1
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0909/0913	9.1/9.1	NA/28	NIY	aver-peretrated / insufficient volume BIST
0928	8.8	25	Y	resampled to keep sufficient volume for so
SAMPLE DATA	Sample ID:	DW18-5	5-130	
Sediment type	Sediment colo	and the second sec	odor H₂S	Comments: "3.5 m & At target (in South Park Manina)
gravel	drab olive	slight	petroleum	Worms, worm tubes
sang (F) M C)	brown gray	moderate strong	other:	RPO: not visible
clay	black			

LOCATION	Location ID:	55-142			-
Latitude/Northing	(Y):			Longitude/Easting(X):	_
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1000	2.8	23	Y		
SAMPLE DATA	Sample ID: L	OW18-5	5-13142		
Sediment type	Sediment color	Sediment of		Comments:	
cobble	brown surface	none	H₂S	Woms	
gravel	drab olive	slight	petroleum		
sand (F) M C)	brown	moderate	other:	RPD: not nsible	
silt	gray	strong			
clay	black				

Project Name:	AOC3	Project no .: Sediment sempting
Date:	3/1/18	Weather: 40s, Sunny
Sampling Method:	piwer grab	Crew: JR, RM, KM

LOCATION	Location ID: 55-143					
Latitude/Northing	(Y):			Longitude/Easting(X):		
Time of sample	Bottom depth (m) (4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
1008	10.8	28	Y	SMS location		
SAMPLE DATA	Sample ID: C	DW18-55	- 143			
Sediment type cobble gravel	Sediment color brown surface drab olive	slight	M H ₂ S petroleum	Comments: WORMS, Worm Jubes		
sand(FM C) sill clay	gray black	moderate strong	other:	RPD: @ 1.5 cm		

LOCATION	Location ID:	55-144			
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (mic)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1023	12.1	24	Y		
SAMPLE DATA	Sample ID: L4	DWIE-SS-	144	1	
Sediment type cobble gravel sand (F) M C) sitt clay	Sediment color brown surface drab olive brown gray black	Sediment o none slight moderate strong	dor H₂S petroleum other:	Comments: MUSSEls, shell Fragments, organic Matter, oil sheen RPD @ Z.Scm	

0

Project Name:	AOC3	Project no.:	Sediment sampling	
Date:	3/1/18	Weather:	40s, SUMMY	
Sampling Method:	power grab	Crew:	JR, RM, KM	

LOCATION	Location ID:	55-148			
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)C	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1032	9.3	27	Y		_
SAMPLE DATA	Sample ID: L	OW18-55	-148		
Sediment type	Sediment color	Sediment of	dor	Comments:	
cobble	brown surface	none	H₂S	worm tubes	
gravel	drab olive	slight	petroleum		
Sand M C)	brown	moderate	other:	RPD: not visible	
SIT	gray	strong			
clay	black				

LOCATION	Location ID:	Location ID: SS-146						
Latitude/Northing	(Y):			Longitude/Easting(X):				
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments				
1042	14.0	27	Y	Sampled whin 10m of target				
SAMPLE DATA	Sample ID: L	OW18-5	5-146					
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Organic Matter, trace shell fragments RPD: not visible				

Project Name:	AOCS	Project no.:	sediment sampling	
Date:	3/1/18	Weather:	40s, sunny	
Sampling Method:	power grab	Crew:	JR, RM, EM	

LOCATION	Location ID:	55-147		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (mCL	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1058	12.6	NA	N	assi-penetrated
1107	12.7	26	Y	collected whin 10m of target
SAMPLE DATA	Sample ID: U	WIE-SS-	- 147	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	(brown surface)	none	H₂S	Worm Nbes
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	KPD 0 0.75 cm
silt	gray	strong		
clay	black			

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1155	12.8	25	Y	collected @ re-randomized loc. 1
SAMPLE DATA	Sample ID: C	02-8100	5- 141	
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment of	dor H₂S petroleum	Comments: Worm tubes, organic Metter,
sand F M C)	brown	moderate	other:	RPD: not visible
clay	black			

Project Name:	AOC3	Project no.:	Sediment sampling
Date:	3/1/18	Weather:	405 sunny
	power grab	Crew:	JR, RN, KM

LOCATION	Location ID: 5	5-103		
Latitude/Northing(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m) C4 depth (cm)		Acceptable sample (Y/N)	Comments
1218	17.1	21 11		collected @ re-randomized loc. 2
SAMPLE DATA	Sample ID: CC	W18-55-	103	
Sediment type	Sediment color	Sediment o	dor H₂S	Comments:
grave trace	drab olive	slight	petroleum	
Sand DOO	brown	moderate	other:	RPO: not visible
silt	gray	strong		APU: not risio.
clay	black			

LOCATION	Location ID:	55-099		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1230	25.5	21 10		collected @ 12-randomized loc. 1
SAMPLE DATA	Sample ID: L	DW18-5	5-099	
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment o	dor H ₂ S petroleum	Comments: organic matter, shell fragments
sand FM C)	brown Gray dar k	moderate strong	other:	RPD: not visible
clay	black			

Project Name:	AOC3	Project no .: Sediment Sampling
Date:	3/1/18	Weather: 405, Sunny
Sampling Method:	power grab	Crew: JR, RM, KM
	, ,	

LOCATION	Location ID:	55-097		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (mC)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1241	30.6	23	Y	collected & R-randomized loc. 1
SAMPLE DATA	Sample ID: L			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment of none	dor H ₂ S petroleum	Comments: dam shell, barnacle
sand (F(M) C)	brown gray	moderate	other:	RPD: not isible
clay	black			

LOCATION	Location ID:	55-096		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) f	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1253	18.4	26	Y	collected @ re-randomized loc.1
SAMPLE DATA	Sample ID: L	0618-55	-096	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H_2S	worms, oil sheen, orgenic metter
gravel	drab olive	slight	petroleum	
(sand ECP C)	brown	moderate	other:	PPO: not visible
silt	gray	strong		FIU: NOT FISIOR
clay	black			·

Project Name:	AOC3	Project no.:	Sediment Sampling
Date:	3/1/18	Weather:	40s, sunny
Sampling Method:	power grab	Crew:	JR, RM, KM

LOCATION	Location ID:	55-088		-
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1305	18.9	25	У	connected whin 10m of target
SAMPLE DATA	Sample ID: 6	DW18-5.	5-088	
Sediment type	Sediment color	Sediment o	dor	Comments:
cobble	brown surface	none	H₂S	organic matter
gravel	drab olive	slight	petroleum	
(Sand (FM) C)	brown	moderate	other:	
silt	(gray)	strong		RPO@ I.Scm
clay	black			

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1316	23.0	27	Y	collected - 7.2m aft target due to l
SAMPLE DATA	Sample ID: 6	OW18-55	5-086	
Sediment type cobble gravel	Sediment color brown surface drab olive	none slight	H ₂ S petroleum	Comments: Organic Metter, Worm tubes, Worms
silt clay	gray dark	strong	other:	RPD. not visible

Project Name:	AOC3	Project no .: Sediment sampling	
Date:	3/1/18	Weather: 405, Sunny/partly Sunny	
Sampling Method:	power grab	Crew: JR, RM, KM	_

LOCATION	Location ID: SS-070				
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)(4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1340	44.4	22	Y	collected @ re-randomized loc-3	
SAMPLE DATA	Sample ID: 64	DW18-55-	070		
Sediment type	Sediment color	Sediment of	dor	Comments:	
cobble	brown surface	none	H₂S	worms, organic matter	
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
silt	gray black	strong		RPD: not visible	

LOCATION	Location ID:	55-066		
Latitude/Northing	(Y):		-	Longitude/Easting(X):
Time of sample	Bottom depth Imrt	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1356	38.0	23	Y	collected "7.3 m off target from re-r
SAMPLE DATA	Sample ID: L	DW18-55.	-066	
Sediment type cobble gravel sand (FM C)	Sediment color brown surface drab olive brown	Sediment of none slight moderate	dor H₂S petroleum other:	Comments: Sea anemone Shell fragments, Grganic Matter
silt clay	gray black	strong		RPD: not visible

Project Name:	AOC3	Project no.:	Sediment sampling	-
Date:	3/1/18	Weather:	40s, cloudy	
Sampling Method:	power grab	Crew:	JR, RM, Jen	_

LOCATION	Location ID:	55-031		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1416	15.6	29	Y	
SAMPLE DATA	Sample ID: L	DW18-5	5-031	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H ₂ S	shell fragments, worms
gravel	drab olive	slight	petroleum	
(sand FM C)	brown	moderate	other:	KPD: not isible
silt	gray dark	strong		KPU. NOT MIDIE
clay	black			

LOCATION	Location ID:	55-030		A
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)ff	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1435	/3.5	20	У	
SAMPLE DATA	Sample ID: L	OW18-55	-030	
Sediment type cobble gravel sand (MC) silt	Sediment color brown surface drab olive brown gray da i k	Sediment of none slight moderate	dor H ₂ S petroleum other:	Comments: Organic Matter, trace shell fragments RPO: not visible
clay	black			

Project Name:	HOC3	Project no .: sediment sampling
Date:	3/1/18	Weather: 40s, party sunny
Sampling Method:	power grab	Crew: JR, RM, KM

LOCATION	Location ID: SS-029			
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (mC)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1442	21.8	14	Y	
SAMPLE DATA	Sample ID: LD	W18-55	-029	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble gravel	brown surface drab olive	none slight	H₂S petroleum	shell fragments, Sculpin
sand M C) silt clay	gray black	strong	other: fungal odor	RPD: not visible

LOCATION	Location ID: 5	55-028		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr) -	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1454	38.2	27	Y	
SAMPLE DATA	Sample ID: LL	NW18-55	5-028	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H₂S	organic matter, worms
gravel	drab olive	slight	petroleum	
sand (F) M C)	brown	moderate	other:	RPD: not visible
silt	(gray) dark	strong		
clay	black			

Project Name:	AOC3	Project no.:	TASK 4
Date:	03.01.18	Weather:	30's partly rearden
Sampling Method:	pneumatic grit sampler	Crew:	Bo's, partly clarely. N. Maas, 2 Crauford, T DO

LOCATION	Location ID:	182		
Latitude/Northing	g(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0803	5.6	21	Y	Gras 5
SAMPLE DATA	Sample ID:	DWIB-S	5-182	
Sediment type cobble gravel sand (F M C) Silt clay	Sediment color brown surface drab olive brown	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: Leaf litter abundant RPD aut visible.

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0839	31.8	22	Ý	Girab 3
SAMPLE DATA	Sample ID: 10	W18-45	178	
Sediment type cobble gravel sand FM C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment or frone slight moderate strong	dor H₂S petroleum other:	Comments: COLLECTED FIBID OUPLICATE LDWIB-55-178-FD Icat litter, shell fragment, worms RPD out visible

Project Name:	AOCZ	Project no.:	TASKA
Date:	03.01.18	Weather:	405. partly cloudy
Sampling Method:	pneumitic grat samples	Crew:	ADS, partly cloudy N Mars, & Craciford, TDO

LOCATION	Location ID:	050		
Latitude/Northing				Longitude/Easting(X):
Time of sample	Bottom depth (pt)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0904	32.2	19	Ý	
SAMPLE DATA	Sample ID: U	2018-5	5-050	
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown oray black	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: tr. organic material RPD not visible

LOCATION	Location ID:	176		
Latitude/Northing	I(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m/A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0975	41.5	13	Y	
SAMPLE DATA	Sample ID: UC	W18-55	-176	
Sediment type cobble graver traff sand (F M C) silt clay	Sediment color brown surface drab olive brown Gray dawle black	Sediment of slight moderate strong	dor H₂S petroleum other:	Comments: shell fragments/fr. weed/plant debus RPD not visible

Project Name:	ADC3	Project no.:	TASK 4
Date:	03.01.18	Weather:	40s, partly dorlar
Sampling Method:	preumatic grass sampler	Crew:	40's, partly cloudy N Mgas, R Crawford, TDD

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (ŋr)A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0451	41.0	23	¥	
SAMPLE DATA	Sample ID:	LOW18-	5-175	
Sediment type cobble gravel sand (F M C) Silt clay	Sediment color brown surface drab olive brown gray dl black	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: shell fragments, worms, tr. plantfute debris RPD not visible

LOCATION	Location ID:	173		V
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1028	35.6	24.5	Ý	
SAMPLE DATA	Sample (D: U	01018-9	5-173	
Sediment type cobble gravel sand (F)M C)	Sediment color brown surface drab olive brown	Sediment or none slight moderate	dor H₂S petroleum other:	Comments: sheil fragments, tr. plant deans, worns RPD not visible
clay	era) d/L black	strong		

Project Name:	ADC3	Project no.:	TASK 4-
Date:	03.01.18	Weather:	ADS other ringde.
Sampling Method:	preumatic grab sompier	Crew:	ADS, ptly clardy NMaas, 12 Coanford, TDD

LOCATION	Location ID:	171		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1048	40.5	18	Y	
SAMPLE DATA	Sample ID: L	DW18-	55-171	
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown Dray dra black	Sediment of none slight moderate strong	d or H₂S petroleum other:	RPD notrisible

LOCATION	Location ID: 0	110		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1123	17.3	15	Y	~ 2m off taget. (Grab 5)
SAMPLE DATA	Sample ID:	DW18-9	5-1016	
Sediment type cobble grave sand (F (M)(c) suft clay	Sediment color brown surface drab olive brown gray black	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: Noorms, shell fragments, trace glass RPD not visible

Project Name:	ADC3	Project no.:	TASK 4
Date:	03.01.18	Weather:	40's savely cloudy
Sampling Method:	precimatic grab sample	Crew:	40's pavely cloudy N. Maas, R Crawford, TDo

LOCATION	Location ID:	172		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)(4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1222	7.4	19	¥	
SAMPLE DATA	Sample ID: V	W18-55	5-172	
Sediment type cobble gravel sand (FM C) filt clay	Sediment color brown surface drab olive brown grap dr black	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: The Dabundant, worms the prestic/gardinge, shall fragments RPD not visible

LOCATION	Location ID: 1	023		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1243	24.0	15	Y	
SAMPLE DATA	Sample ID:	Taw 18	-55-1022	b
Sediment type cobble gravel sand (F) M C) silt clay	Sediment color brown surface drab olive brown gray duwk black	Sediment of one slight moderate strong	dor H₂S petroleum other:	Comments: Trace shell fragments, worms, plant debn's RPD not visible

Project Name:	ADC3	Project no.:	TASK 4
Date:	03.01.8	Weather:	
Sampling Method:	pressmitic gras sampler	Crew:	N Maas, & Crawford, TiDo
	200		

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) H	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1310	15.4	19	Y	
SAMPLE DATA	Sample ID: L	DW18-5	5-170	
Sediment type cobble gravel (sang (F(M) C) Silt clay	Sediment color brown surface drab olive brown gray black	Sediment or slight moderate strong	dor H₂S petroleum other:	Comments: Shell fragments, worms, tr. word debr RPD not visible

LOCATION	Location ID:	74		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)(A	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1334	2.0	11.5	Y	Brab 2
SAMPLE DATA	Sample ID:	174118-	55-174	
Sediment type cobble gravel sand (F)M C)	Sediment color brown surface drab olive brown	Sediment or none slight moderate	dor H₂S petroleum other:	Comments: Verif littler, tr. word/organic debris. FPD not visible
silly	gray black	strong		

Project Name:	AOC3	Project no.:	TASKA
Date:	03.01.18	Weather:	740 jour 50's, puptly classen
Sampling Method:	pneumatic grab samples	Crew:	N. Mars, R. Counford, TDD
	1 .		

LOCATION	Location ID:	Ovifail	2507	
Latitude/Northing	(Y):		-	Longitude/Easting(X):
Time of sample	Bottom depth (pr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1419	6.8	23	Y	
SAMPLE DATA	Sample ID:	DW18-5	01-250-	7
Sediment type cobble gravel + + sand (F)(M) C) Silt + - clay	Sediment color brown surface drab olive brown gray durk black			Comments: trace plant debois RPD not visible.

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) (4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1516	16.8	14	Y	Bmbb
SAMPLE DATA	Sample ID:	DW18-5	SOT-FedC	trs
Sediment type cobble gravel fang (FM) C)	Sediment color brown surface drab olive brown	Sediment of none slight moderate	dor H₂S petroleum other:	Comments: Shell fragments FPD not visible
sill trace clay	grau black	strong		

()

Project Name:	AOC3	Project no .: Scliment sampling
Date:	3/2/18	Weather: 40°F, cloudy
Sampling Method:	power grab	Crew: JR, RM, KM

LOCATION	Location ID:	55-083	DISP	OSED	
Latitude/Northing	(Y):		-	Longitude/Easting(X):	
Time of sample	Bottom depth (m) P	Penetration depth (cm)	Acceptable sample (Y/N)	Com	ments
1805 /0810 /081	8.2/8.2/	NA	N	insulficient penet	ration depth
812/0825/083	9.4/8.7/	NA/ 4/19	NINIY		/gravel + cobbies/ collected
SAMPLE DATA	Sample ID: L	DW18-55	-083	Grab 7 Collected & 084	
Sediment type	Sediment color	Sediment o		Comments: Shell Fragments,	May resanaple this location w/rerai ceosinates
gravel sand DMO	drab olive	slight moderate	petroleum other:	RPD: not visible	NSAmpled @1101 re-randomized los
clay	gray black	strong			this sample disposed of on location

LOCATION	Location ID:	55-080		
Latitude/Northing	I(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m),	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0900	28.5	27	Y	
SAMPLE DATA	Sample ID: L	DW18-SS	5-080	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H ₂ S	shell fragments, worms, worm
gravel	drab olive	slight	petroleum	futics, oil Sheen
sand EMC)	brown	moderate	other:	
silt	gray	strong		RPD: not visible
clay	black			

Project Name:	AOC3	Project no .: Sediment sampling
Date:	3/2/18	Weather: 403, Cloudy
Sampling Method:	power grab	Crew: JR, RM, KM

LOCATION	Location ID:	55-078		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (mpt	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0911	19.9	25	Y	
SAMPLE DATA	Sample ID: LD	W18-53	5-078	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H ₂ S	oil sheen, worms barnacks,
gravel	drab olive	slight)	petroleum	Oil sheen, worms, barnacks, Shell fragments
sand (F) M C)	brown	moderate	other:	
silt	gray dask	strong	furgal	RPD: @ Zcm
clay	black		000	

LOCATION	Location ID:	5-084		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (mC+	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0926	30.4	27	Y	
SAMPLE DATA	Sample ID: 6	0W18-55	-084	
Sediment type cobble gravel sand (F) M C)	Sediment color brown surface drab olive brown	Sediment of none slight moderate	dor H₂S petroleum other:	Comments: Shells oi'l sheen, Mrssels, worms, crab shell, barnacles
silt clay	gray black	strong		RPU: not visible

Project Name:	AOC3	Project no.:	Sediment Sampling	
Date:	3/2/18		40s, closdy	
Sampling Method:	power grab	Crew:	JR, PM, KM	

LOCATION	Location ID: 55-077					
Latitude/Northing(Y):				Longitude/Easting(X):		
Time of sample	Bottom depth (m) Q	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
0937	36.1	28	Y			
SAMPLE DATA	Sample ID: 6	PW18-SS	-077			
Sediment type cobble gravel Sand (E) M C)	Sediment color brown surface drab olive brown	Sediment or none slight moderate	dor H₂S petroleum other:	Comments: trace shell fragments, worms, oil sheen		
silt clay	gray black	strong		RPD: not visible		

LOCATION	Location ID:	55-075		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m.A.	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0951	36.0	27	Y	
SAMPLE DATA	Sample ID: L	0~18-55	-075	
Sediment type cobble gravel sand (F M C)	Sediment color brown surface drab olive brown	Sediment or none slight moderate	dor H₂S petroleum other:	Comments: trace shell fragments, slight oil sheen, worms
silt	gray black	strong		RPD: not visible

Project Name:	AOC3	Project no.:	sediment	Simpling	
Date:	3/2/18		405, C/00		
Sampling Method:	power greb	Crew:	JR, RM,	km	

LOCATION	Location ID: 5	Location ID: 55-076					
Latitude/Northing	(Y):		Longitude/Easting(X):				
Time of sample	Bottom depth (pr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments			
1001	17.7	25	Y				
SAMPLE DATA	Sample ID: L	DW18-55	-076				
Sediment type cobble gravel Sand CMC) Silt clay	Sediment color brown surface drab olive brown gray dark black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Oil Sheen, Shell Fragments, barnacks, worms RPD @ 2 cm			

LOCATION	Location ID: 55-074					
Latitude/Northing	(Y):			Longitude/Easting(X):		
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments		
1014	7.6	23	Y			
SAMPLE DATA	Sample ID: 6	DW18-5	5-074			
Sediment type	Sediment color	Sediment of	dor	Comments:		
cobble	brown surface	none	H₂S	shell fragments, oil sheen,		
gravel	drab olive	slight	petroleum			
Sand FMC	brown	moderate	other:			
sil	gray	strong		RPD: not visible		
clay	black					

Project Name:	ADC3	Project no.:	sediment sampling	
Date:	3/2/18		405, cloudy	
Sampling Method:	power grab		JR, RM, KM	

LOCATION	Location ID:	55-073			
Latitude/Northing	(Y):		-	Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1023	38.9	NA	N	over-penetrated	
1029	38.6	28	У		
SAMPLE DATA	Sample ID: L	OW18-55	-073		
Sediment type	Sediment color	Sediment of	dor	Comments:	
cobble	brown surface	none	H₂S	Worms, organic matter,	
gravel	drab olive	slight	petroleum		
(sand FM C)	brown	moderate	other:	110.01	
Silt	gray	strong		RID: not visible	
clay	black				

Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (mCt	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1041	27.1	NA	N	washed out	
1044	26.3	14	У	shipingelocation	
SAMPLE DATA	Sample ID: LOW18-55-071				
Sediment type cobble gravel sand (F)M C)	Sediment color brown surface drab olive brown	Sediment of none slight moderate	dor H ₂ S petroleum other:	Comments:	
	gray derk black	strong		RPD @ 0.25 cm	

Project Name:	AOC3	Project no.:	sediment sampling	
Date:	3/2/18	Weather:	40s, partly cloudy	
Sampling Method:	power grab	Crew:	JR, RM, KM	

LOCATION	CATION Location ID: 55-083			
Latitude/Northing	(Y):		Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1101	25.Z	29	Y	collected @ re-randomized location 1
				replaces previous sample collected
SAMPLE DATA	Sample ID: L	W18-55	-083	@55-083
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H₂S	oil sheen, worms
gravel	drab olive	slight	petroleum	
sand FM C)	brown	moderate	other:	RPD: not visible
silt	gray	strong		
clay	black			

LOCATION	Location ID:	55-079		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1118	32.8	25	У	collected@re-randomized location 1
SAMPLE DATA	Sample ID:			
Sediment type	Sediment color	Sediment of	dor (H ₂ S)	Comments: WORMS
gravel sand (F M C)	drab olive brown	slight	petroleum other:	
silt	gray dark	strong		RPO: not visible
clay	black			

Project Name:	AOC3	Project no .: Sediment sampling	_
Date:	3/2/18	Weather: 40s, party cloudy	
Sampling Method:	power grab	Crew: JR, RM, KM	_

LOCATION	Location ID:	55-013		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (mp)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1214	37.3	26	У	
SAMPLE DATA	Sample ID: L	OW18-5	5-013	
Sediment type cobble gravel	Sediment color brown surface drab olive brown	Sediment of none slight moderate	dor H ₂ S petroleum other:	Comments: Worms, Worm tubes, shell tragments
Clay	gray dark black	strong		RPD: not wsible

LOCATION	Location ID:	55-017		
Latitude/Northing	(Y):	1		Longitude/Easting(X):
Time of sample	Bottom depth /mC+	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1225	47.1	26	У	
SAMPLE DATA	Sample ID: L	DWIB-SS-	-017	
Sediment type cobble gravel (sand (C) M C) silt clay	Sediment color brown surface drab olive brown stay da de black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Snail, shell fragments, organic Matter, worms RPD Ø I cm

Project Name:	AOC3	Project no.:	sediment sampling	_
Date:	3/2/18		40s, cloudy	
Sampling Method:	power grab		JK, RM, KM	_

LOCATION	Location ID: 5	Location ID: 55-018			
Latitude/Northing(Y):				Longitude/Easting(X):	
Time of sample	Bottom depth (m)Q	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1239	23.7	22	Y		
SAMPLE DATA	Sample ID:	OW18-5.	5-018		
Sediment type cobble gravel sand (F) (M) (C)	Sediment color brown surface drab olive brown	Sediment or none slight moderate	dor H₂S petroleum other:	Comments: shell fragments, barnacles, worms, worm-tubes	
silt	gray dark black	strong		RIO: not visible	

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1249	27.3	21	Y	
SAMPLE DATA	Sample ID: L	OW18-5	5-020	
Sediment type cobble fravel and F O O silt clay	Sediment color brown surface drab olive brown	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: graceful crab, 2 seapens, warms worm tubes, shell fragments RPD: nod visible

0.1

Project Name:	AOC3	Project no.:	Sediment sampling
Date:	3/2/18	Weather:	40s, cloudy
Sampling Method:	power grab	Crew:	JK, RM, KM

LOCATION	Location ID:	55-019		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)C	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1301	44.1	27	Y	collected w/in 10m of revandomond .
SAMPLE DATA	Sample ID: C	DW18-SS	-019	
Sediment type cobble gravel (sand(F) M C)	Sediment color brown surface drab olive brown	Sediment of	dor H₂S petroleum other:	Comments:
silt clay	gray black	strong	onor.	RPD: @ 0.75 cm

LOCATION	Location ID:	55-021		A
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m),C	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1311	45.6	25	Y	
SAMPLE DATA	Sample ID: L	OWI8-SS	-021	
Sediment type cobble gravel sand FM C) silt clay	Sediment color brown surface drab olive brown gray) d/a c/lc black	Sediment of none slight moderate strong	dor H ₂ S petroleum other:	Comments: Warm tubes, trace shell fragments, Organic Matter, RPD: @ 0.75 cm

Project Name:	AOC3	Project no .: Sediment Sampling	
Date:	3/2/18	Weather: 40s, cloudy wy showers	
Sampling Method:	power grab	Crew: JR, RM, KM	į

LOCATION	Location ID:	55-022		V.
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m)(4	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1321	42.0	13	У	
SAMPLE DATA	Sample ID:	OWIB-SS	G-022	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	hone	H ₂ S	see pen, snail, Shell fragments,
gravel	drab olive	slight	petroleum	worms
sandFMO	brown	moderate	other:	
silt	gray	strong		RPD: @ 1.5 cm
clay	black			

LOCATION	Location ID: 5	5-027		1
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m) C	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1333	37.8	27	Y	
SAMPLE DATA	Sample ID: LL	W18-55	-024	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	tione	H₂S	worms, barnacles, organic matter
sand (C) (C)	drab olive brown gray da r k	slight moderate strong	petroleum other:	RPD: OO.Scm
clay	black			

Project Name:	AOC3	Project no .: Sediment sampling
Date:	3/2/18	Weather. 40s, showers
Sampling Method:	power grab	Crew: JK, RM, KM

LOCATION	Location ID:	5-044		
Latitude/Northing	(Y):		Longitude/Easting(X):	
Time of sample	Bottom depth (m)f-/-	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1358	6.7	13	Y	
SAMPLE DATA	Sample ID:	W18-55	-044	
Sediment type cobble gravel (Sang (F)(1) C) (Silt) (a)	Sediment color brown surface drab olive brown gray black	Sediment of fine slight moderate strong	dor H₂S petroleum other:	comments: organicmather (roots), mussel shell, shell frequents RPD: not visible

LOCATION	Location ID:	55-053		
Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (m) (Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1407	43.4	25	Y	
SAMPLE DATA	Sample ID: L	OW18-5	s- <i>05</i> 3	
Sediment type cobble gravel (sand (F.M.C) silt (clay)	Sediment color brown surface drab olive brown grayder/lc black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Organic matter, shell fragments, WORMS RPD: @ 0.75 cm

Project Name:	AOC3	Project no.:	sediment sampling	
Date:	3/2/18	Weather:	40s, claudy	
Sampling Method:	power grab	Crew:	JR, RM, KM	

LOCATION	Location ID: 55-055				
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (m)Q	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
1444	40.7	25	У		
SAMPLE DATA	Sample ID: 6	OWI8-SS	-055		
Sediment type	Sediment color	Sediment of	dor	Comments:	
cobble gravel	brown surface drab olive	slight	H₂S petroleum	organic matter	
sand FM C)	brown	moderate	other:		
SIL	gray	strong		RPD: @ Icm	
clay	black				

LOCATION	Location ID: 55-056			
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)C	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1456	36.6	25	Y	collected & re-randomized loc. 1
SAMPLE DATA	Sample ID: L	0W18-5	5-056	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H ₂ S	trace shell fragments, worms
gravel	drab olive	slight	petroleum	, , , , , , , , , , , , , , , , , , ,
sand EM C)	brown	moderate	other:	
silt	Gray Jark	strong		RPD: 00.75cm

Project Name:	AOC3	Project no .: Sediment Sampling	
Date:	3/2/18	Weather: 40s, rain showers	
Sampling Method:	power grab	Crew: JR, RM, KM	

LOCATION	Location ID:	55-057		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1509	32.5	25	Y	collected @ re-Sandamiled loc. Z, w/in 10
SAMPLE DATA	Sample ID:			
Sediment type cobble gravel Sand IDM C) Silt	Sediment color brown surface drab olive brown gray cark black	Sediment of none slight moderate strong	dor H ₂ S petroleum other:	Comments: Organic matter, shell fragments, Worms, trace oil sheen pockets of black material in unhomogening RPD: not nisible sump

1 - 414 - 4 - 41 - 41 - 1	0.0			
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m), F.	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1524	35.0	28	У	collected @ re-randomized loc. 1
SAMPLE DATA	Sample ID: 6	DW18-5	5-058	
Sediment type	Sediment color	Sediment of	dor H₂S	Comments:
gravel	drab olive	slight	petroleum	Oil sheen, organic matter, worms,
sand (C) M C)	gray dark	strong	other:	RPD: not isible
clay	black			ziptie in traisingrab

Project Name:	AOC3	Project no .: Sediment Sampling
Date:	3/2/18	Weather: 405, cloudy al showers
Sampling Method:	power grab	Crew: JR, RM, EM

LOCATION	Location ID:	55-054		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1534	15.7	13	Y	Collected @ re-randomized loc. 1 (gra
	2			(Grabs 1-6 washed out)
SAMPLE DATA	Sample ID: L	DW18-55	-054	
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H₂S	Shell fragmants, organic matter
graveD	drab olive	slight	petroleum	
sand (DMC)	brown	moderate	other:	
sill	gray dark	strong		RPD: not visible
clay	black			

LOCATION	Location ID:			
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bettom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
			/	
SAMPLE DATA	Sample ID:			
Sediment type	Sediment color	Sediment of	dor	Comments:
cobble	brown surface	none	H₂S	19m
gravel	drab olive	slight	petroleum	SIZ
sand (FMC)	brown	moderate	other:	Comments: Erm 312/18
silt	gray	strong		
clay	black			

Project Name:	ADC3	Project no.:	TASK 4
Date:	03.02.18	Weather:	
Sampling Method:	pneumatic grab sampler.	Crew:	N. Maas, T. Do, R. Evanford

LOCATION	Location ID:	177			-
Latitude/Northing	(Y):			Longitude/Easting(X):	
Time of sample	Bottom depth (pr)C-	Penetration depth (cm)	Acceptable sample (Y/N)	Comments	
OFUG	12.7	25	¥		
SAMPLE DATA	Sample ID: UD	W18-55	5-177		
Sediment type cobble gravel sand (FM C) sand (C) clay	Sediment color prown surface drab olive brown gray dtu- black	Sediment of rone slight moderate strong	dor H₂S petroleum other:	Comments: shell fragments RPD not visible.	

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0802	15.3	24	Y	
SAMPLE DATA	Sample ID: LD	WIB-SS	5-072	
Sediment type cobble gravel sand (F) M C)	Sediment color brown surface drab olive brown	Sediment of rone slight moderate	dor H₂S petroleum other:	Comments: shell fragmak RPD not visible
clay	gray 214. black	strong		

Project Name:	ADC3	Project no.:	TASK 4
Date:	03.02.12	Weather:	305, cividiz
Sampling Method:	preumatic grab sampler.	Crew:	305, ciordy N. Maas, T. Do, & Crawford

LOCATION	Location ID: (outfail	Glacier	JW-CBP
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr)C+-	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
08260	20.4	25.5	¥	
SAMPLE DATA	Sample ID: LD	W18-55	DOT-GLAC	ILTNW-CBP
Sediment type cobble gravel Have sand (F) M C) fill clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Shell fragments, warms, tr. org. material RPD and visible.

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0849	24.8	20	Y	
SAMPLE DATA	Sample ID:	WIB-55	5-081	
Sediment type cobble gravel sand (F M C) slit clay	Sediment color brown surface drab olive brown	Sediment or none slight moderate strong	dor H₂S petroleum other:	Comments: shell fragment, worms, worm trabes, trorg material PPD not visible.

Project Name:	ADC3	Project no.:	TASK 4
Date:	3.02.18	Weather:	30s cively.
Sampling Method:	preumatic grab sampler		N. Maas, T. Do, R. Crawford

LOCATION	Location ID:	082		
Latitude/Northing	(Y):	-		Longitude/Easting(X):
Time of sample	Bottom depth (pr)C+-	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
09.10	24.9	17	Ý	
SAMPLE DATA	Sample ID: LD	W18-55	5-082	
Sediment type cobble gravel sand (F)(M)(C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	(atternate or randomized water) RPD not visible to org maternel, worms.

Latitude/Northing	I(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0955	0	10	Ý	hand collected (on-land)
SAMPLE DATA	Sample ID:	WIB-55	5-041	
Sediment type cobble gravel sand (F)M C) silt clay	Sediment color brown surface drab-olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: GB (courd122.34834° (7 site) 47.55864 high amount of org. mailer, plant (1 debnis.

Project Name:	ADC3	Project no.:	TASK 4
Date:	03.02.18	Weather:	405 clardy
Sampling Method:	presentic grab sampler	Crew:	N. Maas, T. Do R Crawford
	0		

LOCATION	Location ID:	5+		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr)(-	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1131	4.2	11	Y	Errab 4
SAMPLE DATA	Sample ID: U	W18-55	5-187	
Sediment type cobble grave sand (F) MYC) sift tr clay	Sediment color brown surface drab olive prown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: shell fragments/wood/plant debnis RPD not visible re-10 cated from previously collected target word.

LOCATION	Location ID:	83		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1224	19.2	28	Ý	
SAMPLE DATA	Sample ID: LT	WIB-SS	5-183	
Sediment type cobble gravel sand (F) M C)	Sediment color brown surface drab olive brown	Sediment odor none H₂S slight petroleum moderate other:		Comments: Worms, shell frag, tr. plant de bris RPD not visible
silt clay	black	strong		

Project Name:	ADC3	Project no.:	TASK 4
Date:	03.02.18	Weather:	40s rlordy
Sampling Method:	presimatic grab sampler	Crew:	N. Maas, T. Do, & Crawford

LOCATION	Location ID: (olei		
Latitude/Northing	I(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr)(-)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1301	26.0	18	Ý	
SAMPLE DATA	Sample ID: UD	W18-55	- O61	
Sediment type cobble gravel sand (F)M C) (silt) clay	Sediment color brown surface drab olive brown gray dk- black	Sediment odor Tone H ₂ S slight petroleum moderate other: strong		Comments: Warns, shell-fraz, luif little RPD not visible

LOCATION	Location ID:	ØAG		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1316	26.3	10-716	Y	
SAMPLE DATA	Sample ID:	DWIB-55	-046	
Sediment type cobble gravel sand (F) M C) silt	Sediment color bewn surface drab olive brown	slight moderate	lor H₂S petroleum other:	Comments: Warms, plantdebris, shell frag (trace) RPD not visible Used 2nd re-randomized cororcline
clay	black	strong		when the incommend we

Project Name:	ADC3	Project no.:	TASK 4
Date:	03.02.18	Weather:	405, cloudy
Sampling Method:	preumatic grab sampler		N. Maas, T. Do, & Crawford

LOCATION	Location ID:	060		
Latitude/Northing	(Y):		Longitude/Easting(X):	
Time of sample	Bottom depth (prict-	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1336	37.9	28.5	Y	
SAMPLE DATA	Sample ID:	W18-55	5-060	
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Worms, wood debris, fr. org. marker RPD not visible

LOCATION	Location ID:	059		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1352	38.9	12	Y	
SAMPLE DATA	Sample ID: LT	WIB-55	-059	
Sediment type cobble gravel sand (FM C)	Sediment color brown surface drab olive brown gray	Sediment of Sight moderate strong	dor H₂S petroleum other:	Comments: worms, heaf litter, shell fing RPD not visible
clay	black			

Project Name:	ADC3	Project no.:	TASK 4
Date:	03.02.18	Weather:	40s, overast
Sampling Method:	preumatic grab sampler	Crew:	N. Maas, T. Do, R. Cvan ford

Latitude/Northing	(Y):	- C	Longitude/Easting(X):	
Time of sample	Bottom depth (pr)(-+	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1410	37.9	29	Y	original taget (barge moved)
SAMPLE DATA	Sample ID:	W18-55	-062	
Sediment type cobble gravel sand (F) M C) clay	Sediment color brown surface drab olive brown gray black	Sediment or one slight moderate strong	lor H₂S petroleum other:	Comments: Shell frag, worms, org madle. RPD not risible

Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (pr	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
12/26	75.1	ILe	Ý	
SAMPLE DATA	Sample ID:	DWIB-55	5-063	
Sediment type cobble gravel sand (F M C) site clay	Sediment color brown surface drab olive brown gray Jenday black	slight moderate	dor H₂S petroleum other:	Comments: RPD not visible WOVMS, Shell fragmants.

Project Name:	ADC3	Project no.:	TASK 4
Date:	03.02.18	Weather:	405 overeast
Sampling Method:	preumatic grab sampler		N. Maas, T. Do, E. Crow ford

Latitude/Northing(Y):				Longitude/Easting(X):
Time of sample	Bottom depth (price	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1509	3,4	13	Y	Bins b
SAMPLE DATA	Sample ID: UD	W18-55	DT-250	7
Sediment type cobble gravel sand (F M C) (silt) clay	Sediment color frown surface drab olive brown gray durt black	Sediment of none slight moderate strong		Comments: abundant plent meterial boot fiber Bogenic moderial RPD not visible

LOCATION	Location ID:	052		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (prF+	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1532	28.7	27	Y	
SAMPLE DATA	Sample ID: LT	WIB-55	-052	
Sediment type cobble gravel sand (F) M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: SUS Wation WOUNS, WOOTR Hr. plant/word debois RPD not visible re-randomized leation (1 st)

SURFACE SEDIMENT COLLECTION FORM

Date: 03.08.15 Weather: 40's, light rach	Project Name:	ADC3	Project no.:	TASK-4	
	Date:	03.08.15	Weather:	40's light rain	
Sampling Method: preumitic grab sempler Crew: SR TDD	Sampling Method:	pneumotic grab sempler	Crew:	SR. TOD	2

LOCATION	Location ID:	34		
Latitude/Northing	(Y):			Longitude/Easting(X):
Time of sample	Bottom depth (ng) (H	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0846	14.0	29	Ý	
SAMPLE DATA	Sample ID:	W 18 -	55-39	
Sediment type cobble gravel sang (F M C) silt clay	Sediment color brown surface drab olive brown Gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: tr-organic definis RPP not visible isolated pockets of sheen.

LOCATION	Location ID:	zeita M	UMM WA	fail
Latitude/Northing	(Y):		Longitude/Easting(X):	
Time of sample	Bottom depth (pn)Pf	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
0407	11.2	29.5	Ý	
SAMPLE DATA	Sample ID:	DW18-S	SOF Delita	Maine
Sediment type cobble gravel sand (F) M C)	Sediment color brown surface drab olive brown oray	Sediment of slight moderate strong	dor H₂S petroleum other:	Comments: RPD Not Nsible
clay	black			

SURFACE SEDIMENT COLLECTION FORM

Project Name:	Duwamish-AOC3	Task no.:	Task 4 (clam tissue)	
Date:	5.15.2018	Weather:	Cludy, 605	
Sampling Method:	Hand Collection	Crew:	SR, NM, FC	

LOCATION	Location ID: (14611 251C	5	
Latitude/Northing	m: GPS		Longitude/Easting(X): GPS	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1023	AN	10 cm	Y	
SAMPLE DATA	Sample ID:	4DW18-:	550T-2610	2
Sediment type cobble gravel sand (F(M) C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment of none slight moderate strong	dor H₂S petroleum other:	Comments: Wirm closened (remarch thom Slight Grange redor Sample) Hachters CLOR

LOCATION	Location ID: ご	NH611 2	114	
Latitude/Northing	(Y):		Longitude/Easting(X):	
Time of sample	Bottom depth (m)	Penetration depth (cm)	Acceptable sample (Y/N)	Comments
1303		10 cm	Y	
SAMPLE DATA	Sample ID:	LDW18-	5307-21	14
Sediment type cobble (gravel) + tack sand (F M C) (silt) clay	Sediment color brown surface drab olive brown gray black	Sediment odor none H ₂ S slight petroleum moderate other: strong		Comments: Some shell frags. trace organic debns

Project Name:	LDW AOC3		Task No.:	4		_
Date:	6/12/	2018	Sampler(s):	L. Read,	N. Maas	-

LOCATION DATA	Area Type (circle)	Clam Beach	Sampling Method (circle): shove core other
Location ID: Cl	-44-A4	1	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
10:00	0-15	maped ~6f	+ unition gray clay
10:00	15-30	out of ripra	- throughout .
10.00	30-45	to collect	+ inition gray clay -throughout. Little gravel on surface
SAMPLE DATA		-	
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petrol	eum
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

OCATION DATA		Sampling Method (circle): shove core other	
Location ID: CL	04-403		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Brown surface ~ 2cm
1018	45cm		
SAMPLE DATA			Uniform dark gray silt
Sediment type	Sediment color	Sediment odor	gray Sin
cobble	drab olive	none H ₂ S slight petroleum	
gravel sand (F M C)	brown	moderate other:	
silt	gray	strong	
clay	black		

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INTERTIDAL	SURFACE SEDIMENT COLLEC	TION FORM		
Project Name:	LDW AOC3	Task No.:	4	
Date:	12 JUNE 2018	Sampler(s):	REMI, KROTEN	

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LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID:	CLO4-AR	82	Additional Notes
Sample Time	Penetration depth (cm)	Comments	Silt conface, brown
10:02	45cm	Marcd ~ 5ft due to deep sedim	ent
SAMPLE DATA			clay, black subsurface
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S Slight petroleum	
sand (F M C) silt clay	brown gray black	moderate other: strong	water at base

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: CLOC - AOL			Additional Notes
Sample Time	Penetration depth (cm)	Comments	Silt surfice, trawr
10:25	45cm		
SAMPLE DATA	<u></u> }		clay, group
Sediment type` cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	
sand (FMC)	brown	moderate other:	water at base
clay	black		WATCH

Project Name: Date: LDWAOC3

Task No.:

Sampler(s):), RHEUBEN

LOCATION DATA	Area Type (circle): Clap Beach	Sampling Method (circle): shove core other
Location ID: CL	$11 - A\phi I$		Additional Notes
Sample Time	Penetration depth (cm)	Comments	COBBLE @ SURFACE
1145	45		GRAVEL CONRISER SAND/SICT
SAMPLE DATA	Sediment color	Sediment odor	
cobble gravel	brown surface drab olive	none slight petroleum	
sand () () () (lay)	gray ale	moderate other: strong	Cirry

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID:			Additional Notes
Sample Time	Penetration depth (cm)	Comments	
SAMPLE DATA			
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment odornoneH2Sslightpetroleummoderateother:strong	

Project Name:	LDW AOC3		Task No.:	4
Date:	12	JUNE 2018	Sampler(s):	LORRAINT, KRISTEN

LOCATION DATA	Area Type (circle	Clam Beach	Sampling M	ethod (circle): shovel core other
Location ID:	L11-A03			Additional Notes
Sample Time	Penetration depth (cm)	Comments		BROWN
11:40	45cm	MOUED 3A OFF		SURFACE
		SAME HOLE	to TIDE	
	14	AS 8P5-E03		
SAMPLE DATA		199 1		SAND WI GRAVEL
Sediment type	Sediment color	Sediment odor		
cobble	brown surface	none H ₂ S		
gravel	drab olive	slight petroleum		
sand (FMC)	brown	moderate other:		
silt	gray	strong		WATER AT BASE
clay	black			Anthose with Direct

LOCATION DATA Area Type (circle): Clam Beach			Sampling Method (circle): shovel dore other	
Location ID:	X J-ED	>	Additional Notes	
Sample Time	Penetration depth (cm)	Comments	A-	-
11:40	USom	MOURD 354 OFF	F DUE BIZOUND SURFACE	
		SAME HOLE	TO TIDE	
		AS CLII-AD3	2	
SAMPLE DATA			SAND Nº GRAV	16
Sediment type	Sediment color	Sediment odor	SHND V BIC.	
cobble	brown-surface	none H ₂ S		
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
silt (gray	strong	WATER D BAGE	
clay	black		WANDE ON DW	

Project Name:	LDW AOC3	Task No.:	4		
Date:	2018-06-12		Sampler(s):	L. Read	, N. Maas
	2.10		E.S.		

other LOCATION DATA Area Type (circle): Clam Beach Sampling Method (circle): shovel core CL64- A00 Location ID: **Additional Notes** Penetration Comments brownish sitt toplayed Icm Sample Time depth (cm) 23 E Dark grag sitt beneath 1048 Triel @ 3 locations. lots of rubble beneath surface. Max penetration C 23 cm. Holes quickly filled w/ water SAMPLE DATA Sediment odor Sediment type Sediment color none H₂S cobble brown surface drab olive slight petroleum gravel other: sand (F M C) brown moderate gray strong silt clay black

	Area Type (circle)	Clam Beach	Sampling Method (circle): (shoved core other
ocation ID: C	L 11 - AØ.	2	Additional Notes
Sample Time	Penetration depth (cm)	Comments	- Consistent - through out
11:41	45		- beach of
SAMPLE DATA			GPS location
Sediment type cobble gravel	Sediment color brown surface (drab olive	Sediment odor none H ₂ S slight petro	bleum
sand EDC)	brown gray	moderate other strong	r:
clay	black		

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Project Name:	LDW AOC3	Task No.: 4
Date:	6/12/18	Sampler(s): Jenna R. Mikey.
		1 1

Location ID: CL	Area Type (circle): (Clam) Beach	Sampling Method (circle): shove core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1035	45		
SAMPLE DATA	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
ravel	drab olive	slight petroleum	
sand (FMC) (brown	moderate other:	
ilt	gray	strong	
lay	black		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: CL	09 - AØ1		Additional Notes
Sample Time	Penetration depth (cm)	Comments	w/m water
1052	0-45	NONE	
SAMPLE DATA			
sediment type	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	
silt clay	brown grav black	moderate other: strong	

Project Name: Date: LDWAOC3

Task No.: Sampler(s):

LOCATION DATA	Area Type (circle): Clam) Beach		Sampling Method (circle): shove core other
Location ID: CL	09-003	~	Additional Notes
Sample Time	Penetration depth (cm)	Comments	undin Sebas /
1023	45		Woody Sebris / Organic matter
		-	
SAMPLE DATA			clay
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	Silty
sitt	gray	strong	
clay	black		,

LOCATION DATA Area Type (circle): Clam Beach			Sampling Method (circle) shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	Organic Mutter (twigs,
1048	45		
SAMPLE DATA	Sediment color	Sediment odor	
cobble gravel	brown surface drab olive	none H ₂ S slight) petroleum	
sand (F M C)	brown	moderate other:	
clay	gray black	strong	

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Project Name:	LDW AOC3	Task No.:	
Date:	6/12/18	Sampler(s):	

LOCATION DATA	Area Type (circle	Clam Beach	Sampling Method (circle): shovel core other
Location 10:19	-L09-C	04	Additional Notes
Sample Time	Penetration depth (cm)	Comments	Dowed Glager
1058	45-300	Μ	- noved 6 fi over Jue to rocks
105%	30-15cm	2	JUE TO FOCKS
1055	Notis	DCM	w.
SAMPLE DATA	- MA		
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleu	m
sand (P (M (C))	brown	moderate other:	
silt	Gray	strong	
clay (black		

	Area Type (circle): Clam (Beach	Sampling Method (circle): Shovel core other
Sample Time	Penetration depth (cm)	Comments	
1215	45.30	Clay	moved due to rocky area np rap at target
SAMPLE DATA	Sediment color	Sediment odor	- np vap ar target
gravel sand (F M C)	brown surface drab olive brown	none H ₂ S slight petrole moderate other:	
silt	gray black	strong	

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Project Name:	LDW AOC3	Task No.: 4	
Date:	6/12/18	Sampler(s): A. Eddington, B. Church, A.	Van
		J	

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shove core other Additional Notes	
Location ID: CL	09-CØ2			
Sample Time	Penetration Sample Time depth (cm) Comments		Sectiment profile Consistent throughost	
0932	45	Sample location moved ~3.4 to	thro.y. fro st	
SAMPLE DATA		assure depth reacted		
Sediment type	Sediment color brown surface	Sediment odor		
gravel sand (F M C) silt	drab olive brown gray	slight petroleum moderate other: strong		
clay	black	on only		

Location ID: 13	5-002		Additional Notes
Sample Time	Penetration depth (cm)	Comments	- Sod consistent
D945	45		- sod consistent
SAMPLE DATA			
Sediment type	Sediment color brown surface	Sediment odor none H ₂ S	
sand (F)M C)	drab olive brown	slight petroleum moderate other:	
silt	gray	strong	

Project Name:

ame:

LDW AOC3

Task No.:

Date:

6.12.18

Sampler(s): RHEUBEN

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LOCATION DA	ATA Area Type (circle	Area Type (circle): Clam Beach			thod (circle): shovel for other		
Location ID:	Location ID: LDW18 - 1745 - BP5 - DØ1				Additional Notes		
Sample Tim	Penetration depth (cm)	Com	ments		TAKEN W/ CORE TUBE		
0921	0-15				TUBE		
0921	15-30				6 · · · · ·		
> 0921)	30-45				Shellfrequents		
SAMPLE DAT	A			NA	0		
Sediment type	Sediment color	Sediment odd	or				
cobble	brown surface	rone	H₂S				
gravel	drab olive	slight	petroleum	11 1			
sand (F MC	trown	moderate	other:				
silt	(ay)	strong					
clay	black						

LOCATION DATA	Area Type (circle)	: Clam Beach	Sampling Method (circle): shovel (core) other	
Location ID: 64	JE LDWIE.	1145-669-641	Additional Notes	
Sample Time	Penetration depth (cm)	Comments	5	
-84490	0-15	N	- SANDY/M-C	
-0949-	15-30	Ν		
(450)	30-45	N		
SAMPLE DATA			-7	
Sediment type	Sediment color	Sediment odor	& SILTY + Fines	
sand (FMC)	drab olive	slight petroleum moderate other: strong	I Some WOODY DEBRI	
clay	black			

Project Name:	LDW AOC3
Date:	6.12.18

Task No.: _____ Sampler(s): ____

NM

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LOCATION DATA	Area Type (circle): Clam Beac	h	Sampling Method (circle): shovel core other		
Location ID: CL	-13 - AP3	3		Additional Notes		
Sample Time	Penetration depth (cm)	Comm	ients	cobble e gravel		
1224	45			on surface.		
		1		algae filuments		
SAMPLE DATA				on surface		
Sediment type	Sediment color	Sediment odor				
cobble 🔇	brown surface	none	H₂S			
gravel	drab olive	slight	petroleum			
sand FM C)	brown	moderate	other:			
silt	gray	strong				
clay	black					

LOGATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other Additional Notes		
Location ID:					
Sample Time	Penetration depth (cm)	Comments			
SAMPLE DATA					
Sediment type cobble gravel sand (F M C)	Sediment color brown surface drab olive brown gray	Sediment odornoneH2Sslightpetroleummoderateother:strong			

LDW AOC3 Project Name: Task No.: Sampler(s): R Mathemet A. Folging ちっ Date:

LOCATION DATA	dia): Clam Beac	n)	Sampling Method (circle): shove core other		
Location ID: Df Sample Time	Penetration depth (cm)	Comm	ients	Additional Notes		
SAMPLE DATA Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor	H ₂ S petroleum	brown & orange through out		
sand)(F (M C) silt clay	gray black	moderate strong	other:			

LOCATION DATA	Area Type (circle	: Clam Beach	Sampling Method (circle): shovel core other
Location ID:			Additional Notes
Sample Time	Penetration depth (cm)	Comments	
SAMPLE DATA			
Sediment type cobble gravel sand (F M C)	Sediment color brown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other:	
silt	gray	strong	
clay	black		

LDW AOC3

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Project Name: Date:

2018 JUN

Task No.: Sampler(s):

LORRAINE , KRISTEN

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: C	-13-A02		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
12:05	45cm		ROCK AND
SAMPLE DATA			COBBLE TAROUGHOUT.
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	ROCK AND COBBLE THROUGHOUT. CEUSHED BRICK AT DEPTH. JAND AT DEPTH
sand)(F (M C) silt clay	gray biack	moderate other: strong	AT DEPTH

LOCATION DATA	Area Type (circle):	Clam Beach	Sampling Method (circle): shove core other
Location ID:	BPS-EDZ		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
12:13	41500		madium sand throughout.
	24		-hroughout.
SAMPLE DATA			
Sediment type		Sediment odor	ROUK + OBBU- THROUGHOUT.
gravel	drab olive	slight petroleum	BRICK FRAGMENT
sand (F M C)		moderate other: strong	BRICK FRAGMIC
clay	black		

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			1		
Project Name:	LDW AOC3	Task No.:	T		
Date:	12 JON 2018	Sampler(s):	KR1376N	, LOPERAINCE	1

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shover core other	
Location ID:	675-F	25	Additional Notes	
Sample Time	Penetration depth (cm)	Comments		
2:17	45rm		UNIFORM SAIND THROUGHOUT MINIMUM COBBLES	
SAMPLE DATA Sediment type	Sediment color	Sediment odor	- MINIMUM COBBLES	
cobble gravel sand (FMC)	brown surface drab olive brown	none H₂S slight petroleum moderate other:	DRY	
silt	gray	strong		

LOCATION DATA	Area Type (circle	: Clam Beach	Sampling Method (circle): shovel core other
Location ID:	CL13- A01		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
12:18	USum		MEDIUM SAND THROUGHOUT
SAMPLE DATA Sediment type cobble gravel sand (F(M)C)	Sediment color brown surface = drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other:	ELECTRICAL CONDUIT IN HOLG SOME BLACK SEDIMEN
silt clay	gray black	strong	WATER O BASE

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Project Name: Date:

LDW AOC3 6.12.18

Task No.: _____ Sampler(s): _____Y

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LOCATION DATA	Area Type (circle)	: Clam Beach	Sampling Method (circle): shove core other
Location ID: C	13-A01		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1207	45		
SAMPLE DATA Sediment type	Sediment color	Sediment odor	
cobble gravel	brown surface drab olive	none H ₂ S slight petroleum	
sana (E-M C) still clay	gray black	moderate other: strong	

	Area Type (circle): Clam Beach	0	Sampling Method (circle); shovel core other	
Location ID: BP5-F04				Additional Notes	
Sample Time	Penetration depth (cm)	Comm	ents		
1215	45	-			
SAMPLE DATA					
Sediment type cobble gravel	brown surface drab olive		H₂S petroleum		
sand (M C)	brown		other:		
clay	gray	strong			

Project Name:	LDW AOC3	Task No.:
Date:	6/12/18	Sampler(s): Nicke Yarns, Auten Edgington
		1 9 9

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shove core other
Location ID: B	PS-COI		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1105	45		
SAMPLE DATA	Sediment color	Sediment odor	
cobble gravel)	brown surface drab olive)none H₂S slight petroleum	
sand (F M C)	brown	moderate other:	
silt	gray	strong	
clay	black		

LOCATION DATA	Area Type (circle): Clam (Beach)	Sampling Method (circle): shovel core other
Location ID: BP	5-EØ1		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Too 15 m = fine +
1147	45		Top 15 cm = fine + Coave sand am 15-45 cm = si
SAMPLE DATA	Sediment color	Sediment odor	and clay
cobble (brown surface drab olive	none H ₂ S slight petroleum	
sand (E_M_C)	gray dary black	strong other:	

Project Name:	LDW AOC3	Task No.:
Date:	6/12/18	Sampler(s): Remy M., Aaron E

Sample Time	Penetration		
eample inne	depth (cm)	Comments	
1225	45		
SAMPLE DATA	Sediment color	Sediment odor	
cobble	brown surface (none H ₂ S slight petroleum	
~	brown gray	moderate other: strong	

LOCATION DATA Area Type (circle): Clam Beach			Sampling Method (circle): shovel core other Additional Notes		
Sample Time	Penetration depth (cm)	Comments			
SAMPLE DATA					
Sediment type cobble gravel sand (F M C)	Sediment color brown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other:			
silt clay	gray black	strong			

INTERTIDAL	SURFACE SEDIMENT CO	
Project Name:	LDW AOC3	Task No.: T
Date:	06/12/18	Sampler(s): AMaria J, Brian C

LOCATION DATA Area Type (circle): Clam Beach			Sampling Method (circle) shovel core other Additional Notes	
Sample Time	Penetration depth (cm) 45	Comments MDVed 23ft Jue to rocks	= glas si Hy throughout	
SAMPLE DATA Sediment type cobble	Sediment color	Sediment odor	- profile	
gravel sand (F M C) silt clay	drab olive brown gray black	slight petroleum moderate other: strong		

LOCATION DATA	ATA Area Type (circle): Clam Beach			Sampling Met	hod (circle): shove	core other
Location 1D:					Additional No	tes
Sample Time	Penetration depth (cm)	Comm	ents			
				1 1		
SAMPLE DATA	0 - timent - slar	Sediment odor				
Sediment type	Sediment color brown surface		H₂S	11 1		
cobble gravel	drab olive		petroleum			-
sand (F M C)	brown	ľ	other:			
silt	gray	strong				
clay	black					

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Project Name:	LDW AOC3	Task No.:			
Date:	6/13/18	Sampler(s): Mike Y, Rachel C.	-		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: CL	05-B02	\sim	Additional Notes
Sample Time	Penetration depth (cm)	Comments	. worky derbris throughout
9:32	45	·unform throughout	
SAMPLE DATA	Oudineerst color	Sadiment adar	
Sediment type	Sediment color	Sediment odor	
gravel	drab olive	slight petroleum	
sand (FM C)	brown	moderate other:	
silt	gray	strong	
clay	black		

LOCATION DATA	Area Type (circle); Clam Beach	Sampling Method (circle): shovel core other
Location ID: CL	05 BON		Additional Notes
Sample Time	Penetration depth (cm)	Comments	· woody clebis throughout
			•15cm-30cm clay presen
SAMPLE DATA Sediment type cobble	Sediment color brown surface	Sediment odor none	
gravel sand (F MO) silt	drab olive brown	slight petroleum moderate other:	
clay	black		

4 nyirc LDW AOC3 Project Name: Task No.: 06.13.18 Date: Sampler(s):

LOCATION DATA	Area Type (circle		Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm) 40	Comments	- moved b/c of rip rap after 3 astempts rip rap@ surface unable to penetrate deeper after 3 astempts
SAMPLE DATA Sediment type	Sediment color	Sediment odor none	deeper after 3 asternos
gravel smort M C)	drab olive brown gray	slight petroleum moderate other: strong	
clay	black		

	Area Type (circle	e): Clam Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm) 45	Comments	310 cm silty
SAMPLE DATA Sediment type	Sediment color	Sediment odor	- virfandy sandy.
cobble gravel sand (F M C) silt clay	drab olive drab olive frown aray black	none H₂S Stight petroleum moderate other: strong	noved from rip rap to sample

Ξ.

Project Name:	LDW AQC3	Task No.:
Date:	6/13/16	Sampler(s): R(

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LOCATION DATA	Area Type (circle)	: Clam Beach	Sampling Method (circle): shovel (core) other
Location ID: CL	05-B03	0	Additional Notes
Sample Time	Penetration depth (cm)	Comments	target location moved down
11.08	45		Small čel-like fish found in mud • woody debris throughout
SAMPLE DATA Sediment type cobble gravel sand (D (() (c))	Sediment color brown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other:	
silt (clay	gray black	strong	

LOCATION DATA	Area Type (circle)	Clam Beach	ı	Sampling Method (circle): (shovel) core other
Location ID: CL	* 06 - A02			Additional Notes
Sample Time	Penetration depth (cm)	Comm	ents	
11:52	45			twget location moved due to rip rap
SAMPLE DATA				
Sediment type	brown surface	Sediment odor	H₂S	
gravel sand (F M C)	drab olive brown	slight moderate	petroleum other:	
silt clay	gray black	strong		

Project Name: Date:

LDW AOC3 13/18

Task No.:

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MI Sampler(s):

LOCATION DATA Clam Beach Sampling Method (circle); shovel core other Area Type (circle): Location ID: CL **Additional Notes** 66 ~ Ad hi rap surface, Penetration Sample Time depth (cm) Comments 214 theng 4 top wayh Du 35cm relocated due to SAMPLE DATA Sediment odor Sediment color Sediment type brown surface cobble none H₂S gravel petroleum drab olive slight sand (F/MCC) brown moderate other: -r silt w/ sand (F, M, C) and gravel Poton sill gay Dark strong 10 cm clay black

Location ID: CL	pla- AD3			Additional Notes	
Sample Time	Penetration depth (cm)	Comme	nts	cobble 5cm) relacated d	ne [°]
12:26	45				
SAMPLE DATA	Sediment color	Sediment odor		- Gsand to gravel throughout	
cobble	brown surface)	-	H₂S) sand crate	at
gravel	drab olive	slight p	petroleum	esand craps	141
Sand (F M C)	brown	moderate d	other:		
silt	gray	strong		Clay 735cm	
clay	black			Land De	

		4	
Project Name:	LDW AOC3	Task No.:	
Date:	(e/13/18	Sampler(s): M.Y. R.C.	

LOCATION DATA	Area Type (circle): Clam) Beach	Sampling Method (circle) shove core other Additional Notes
Sample Time	Penetration depth (cm) 45	Comments	- Fiberous clay t sitt throughout
SAMPLE DATA Sediment type cobble gravel sand (F M C) <	Sediment color brown surface drab olive brown gray black	Sediment odor none H2S slight petroleum moderate other: strong	

LOCATION DATA	Area Type (circle	Clam Beac	h	Sampling Method (circle) Shovel core other
Location ID: 0	-03-COI			Additional Notes
Sample Time	Penetration depth (cm)	Comn	nents	· clay throughout
13:09	45			· sample location moved
				· Sample location moved (1prop)
SAMPLE DATA		1		
Sediment type	Sediment color	Sediment odo	r	
cobble	brown surface	none	H_2S	
gravel	drab olive	slight	petroleum	
sand (FMC)	brown	moderate	other:	
silt	Stay	strong		
clay	black			

INTERTIDAL SURFACE SEDIMENT COLLECTION FORM Project Name: LDWA0C3 Date: IDWA0C3 Task No.: Sampler(s): DC TD, TP, AE

LOCATION DATA Area Type (circle): Clam Beach Sampling Method (circle): shovel (core_other Location ID **Additional Notes** moned; / Ocation Penetration Sample Time depth (cm) Comments in rip rap very wet locathen uniform sild lost some from co 1045 か SAMPLE DATA Sediment type Sediment color Sediment odor cobble brown surface none H2S gravel drab olive slight petroleum sand (F M C) brown other: moderate silt gray strong black clay

Location ID: CL	5-A05	A	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
the	45		Hypertin
50/120			BATX
			black in 20-45
SAMPLE DATA			gray, clayees
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	on top
gravel	drab olive	slight petroleum	Sand mired Throughout
sand (F M C)	brown	moderate other:	Throughout
sill	gray)	strong	0

Date:

4 hc, iD, AE, JR Project Name: Task No.: LDW AOC3 6/13/18 Sampler(s):

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel (core) other
Location ID: BP	5-F09		Additional Notes
Sample Time	Penetration depth (cm)	Comments	black sill on
1200	43		-TOP
			aconella et
SAMPLE DATA			gervelly at 15+ cm
Sediment type	Sediment color	Sediment odor	137 cm
cobble	brown surface	none H ₂ S	
sand (F M C)	drab olive	slight petroleur moderate other:	" moved:
silt	gray	strong	n moved: rip vap
clay (black	, , , , , , , , , , , , , , , , , , ,	

ocation ID: CL	Area Type (circle)		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Coming up
1220	45		- Coming up
AMPLE DATA			daying at depth Sandy at 0-15
Sediment type sobble o pravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	Sandy at 0-15
and (F) M C)	brown	moderate other:	

Date:

4 TD, AE, JR Project Name: LDW AOC3 Task No.: 13/18 Sampler(s): BC,

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: CL	13-A00	~	Additional Notes
Sample Time	Penetration depth (cm)	Comments	Ved seliment
1230	45		- ved sediment
			- "Inter at surface or 15 cm
SAMPLE DATA			- Surface D-15
Sediment type	Sediment color	Sediment odor	mothed
sand (F/M C)	brown-red	slight petroleum moderate other:	
clay	-gray black	strong	

	Area Type (circle): Clam Beach	1	core other
Location ID: BPC	-F15	A contraction of the second se	Additional Notes	
Sample Time	Penetration depth (cm)	Comments		4
1305	45		- Chagen	a1
	A.2	7	depth,	-
SAMPLE DATA			Sandie	2 22
Sediment type	Sediment color	Sediment odor		
cobble	brown surface	none H ₂ S	for	
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:	moved:	VIP Vap
silt	gray	strong	and was	Dicile
clay	black		and too	e waste

Project Name: LDW AOC3 Task No.: TDate: 6/13/13 Sampler(s): JR, BC, AE, 7D

Sampling Method (circle): shovel core other Beach LOCATION DATA Area Type (circle): Clam BPS **Additional Notes** Location ID: moved: vip vap wall; target loc not on beach Penetration Sample Time depth (cm) Comments 0950 45 SAMPLE DATA Sediment color Sediment odor Sediment type brown surface none H_2S cobble, slight petroleum drab olive gravel Mred San sand A M/C) other: brown moderate silt gray strong clay black

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other Additional Notes		
Sample Time	Penetration depth (cm)	Comments			
1100	45				
10. 	t the second	*			
	_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
SAMPLE DATA		1			
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	fione H ₂ S	Ne and		
gravel	drab olive	slight petroleum			
sand (F M C)	brown	moderate other:			
SIL	gray	strong	S		
clay	black				

Project Name:	LDW AOC3	Task No.:
Date:	6.13.18	Sampler(s):) R .AE

LOCATION DATA	Area Type (circle): Clam (Beach)	Sampling Method (circle): shovel core other
Location ID:	BP5-FID		Additional Notes
Sample Time	Penetration depth (cm)	Comments	- BROWN SURFACE of TRACE gravel
1207	45	NONE	TRACE grave
			V.SOFT
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	8
sand (F M C)	drab olive brown	moderate other:	
(sill) clay	gray black	strong	

LOCATION DATA): Clam Beach	Sampling Method (circle): shovel core other
Location ID: BP1	p-F14		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1226	48-45		
SAMPLE DATA			
Sediment type	Sediment color brown surface	Sediment odor none H ₂ S	
gravel sand (F)(M)C)	drab olive brown	slight petroleum moderate other:	
sitt	gray	strong	
clay	black need of	1	

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Project Name:	LDW AOC3	Task No.: Ŧ
Date:	06.13.14	Sampler(s): JR AE

LOCATION DATA	Area Type (circle	: Clam Beach	Sampling Method (circle): shovel (core other
Location ID: BP\$5-F12			Additional Notes
Sample Time	Penetration depth (cm)	Comments	Nome
1231	45	NONE	
		the second second	
SAMPLE DATA		and the second	
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	Hone H ₂ S	
gravel	drab olive	slight petroleum	
(sand F)(C)	brown	moderate other:	
sill	gray	strong	
Clay	black		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other Additional Notes		
Location ID: BP	5- FII				
Sample Time	Penetration depth (cm)	Comments	None .		
1250	45	None			
		the state of the			
SAMPLE DATA	Sediment color	Sediment odor			
Sediment type	brown surface	none (H ₂ S)			
gravel	drab olive	slight petroleum			
sand (FMC)	brown	moderate other:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
silt	gray	strong			
clay	black				

Project Name: Date: LDW AOC3

Task No.: <u>4</u> Sampler(s): <u>AG, JR</u>

LOCATION DATA	Area Type (circle): (Clam) Beach	Sampling Method (circle): shovel (core) other
Location ID: CL	-13-A10		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1310	45	pone	-
SAMPLE DATA			
Sediment type cobble gravel Sand F M/C silt clay	Sediment color brown surface drab olive brown gray black	Sediment odor Tone H ₂ S slight petroleum moderate other: strong	

LOCATION DATA	Area Type (circle	a): (Clam) Beach	Sampling Method (circle): shovel core other
Location ID: U	13-A11	<u> </u>	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1330	40	Could not penetrate	
		Could not penetrute deeper after multiple	
		attempts	
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface)	none H ₂ S	
gravel	drab olive	slight petroleum	
(sand (FM)C)	brown	moderate other:	
silt	gray	strong	
clay	black		

Project Name: Date:

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Task No.: Sampler(s): AE, BC, TD, JRLDW AOC3

LOCATION DATA	Area Type (circle): Clam Beach			Sampling Method (circle): shovel core other
Location ID: BP	5-A01		Additional Notes	
Sample Time	Penetration depth (cm) 45	Comn	nents	
SAMPLE DATA Sediment type	Sediment color	Sediment odo		
cobble	brown surface	none	H₂S	
gravel	drab olive	slight	petroleum	
sand (FMC)	brown	moderate	other:	
silt	gray	strong		
clay	black			

LOCATION DATA Area Type (circle): Clam Beach				Sampling Method (circle): shove/ core) other	
Location ID: BP	5- FØ6	\cup	Additional Notes		
Sample Time	Penetration depth (cm)	Comm	nents		
1045	45 cm			RPDO Deptn (no ++ckn	
SAMPLE DATA				hane	
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor	H₂S petroleum		
sang (P M C)	brown	moderate	other:		
clay	black			II-	

Project Name: LDW AOC3 Task No.: Date: 6/13/18 TD, BC Sampler(s): AE 26

	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: C	L13-AU10	1	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1125	45	Sample location mor	section and the section of the secti
	-		
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	stight petroleum	
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

Area Type (circle): Clam) Beach	Sampling Method (circle): shovel core other
J-404		Additional Notes
Penetration depth (cm)	Comments	
45		
Sediment color brown surface drab olive	Sediment odor none H ₂ S slight Detroleum	
brown gray	moderate other: strong	
	3 - Ao 7 Penetration depth (cm) 4 5 Sediment color brown surface drab olive brown	3 - A6 7 Penetration depth (cm) Comments 4 5

Project Name:	LDW AOC3	Task No.:	tosh 4	
Date:	6.13.2018	Sampler(s):	SR, LR.	

LOCATION DATA	Area Type (circle	: Clam (Beach)	Sampling Method (circle): shovel core other
Location ID:	$3P5 - G\phi I$		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1337	45cm		Juniform
SAMPLE DATA			
Sediment type	Sediment color brown surface	Sediment odor	
gravel (sand (F (M (C))	drab olive	slight petrolo moderate other:	
silt clay	black	strong	

LOCATION DATA	A Area Type (circle): Clam Beach			Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comm	ents		
SAMPLE DATA		/			
Sediment type	Sediment color	Sediment odor			
cobble	brown surface		H ₂ S		
gravel sand (F M C)	drab.olive brown		petroleum other:		
1			0.000		
silt	gray black	strong			

Project Name: Date:

Task No.: 4 Sampler(s): K, TP, AE, TR LDW AOC3 13/18

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle) shovel core other
Location ID: BP	5-F15		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1330	YK		Inifam
			- Unifam Invoughant
	-		- Mrougheer
SAMPLE DATA		Lana -	
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sange (F M C)	brown	moderate other:	
sill	gray	strong	
clay	black		

LOCATION DATA	A Area Type (circle): Clam Beach			Sampling Method (circle): shovel core other	
Location ID:				Additional Notes	
Sample Time	Penetration depth (cm)	Comm	nents		
			a service the		
SAMPLE DATA		/			
Sediment type	Sediment color	Sediment odor	r		
cobble	brown surface	none	H₂S		
gravel	drab olive	slight	petroleum		
sand (FMC)	brown	moderate	other:		
silt	gray	strong			
clay	black	l J			

Project Name: LDW AQC3 Task No.: Read 6/13/18 Sampler(s): Date:

LOCATION DATA	Area Type (circle): Clarry Beach	Sampling Method (circle): shove core other
Location ID: L	LØ7- BI	ØI	Additional Notes,
Sample Time	Penetration depth (cm)	Comments	Den algae layer on surfac brown sand " / pebbles
9:50	45		- 1cm
SAMPLE DATA			- Cusifina amu
Sediment type	Sediment color	Sediment odor	uniform gray sand
gravel	drab olive	slight petroleum	
sand (FM) C)	brown	moderate other:	
silt	gray	strong	
clay	black		

Location ID: B	P4-B0		Additional Notes
Sample Time	Penetration depth (cm)	Comments	thin layer of brown can w/holgest old algae mat
10:15	45cm	12.	w/lolgest old algae mat
		Firsthele riccles	ij a surtae
	hit 19. 0	Firsthek riccles bbu @ 30 cm.	
		be gradient ~ 24	7. med anay sand through
SAMPLE DATA	-		
	Sediment color	Sediment odor	W/ small pockets of
Sediment type	Sediment color brown surface	Sediment odor none H ₂ S	W/ small pockets of brown sand & pebbles
Sediment type			*. Med. gray Sand through W/small pockets of brown sand. & Pebbles
Sediment type cobble gravel	brown surface	none H ₂ S	W/ small pockets of brown sand. & Pebbles
Sediment type cobble gravel sand F(M)C) slit	brown surface drab olive	none H ₂ S Slight petroleum	W/ small pockets of brown sand. & Pebbles

Project Name: Date:

LDW AOC3 6/13/18

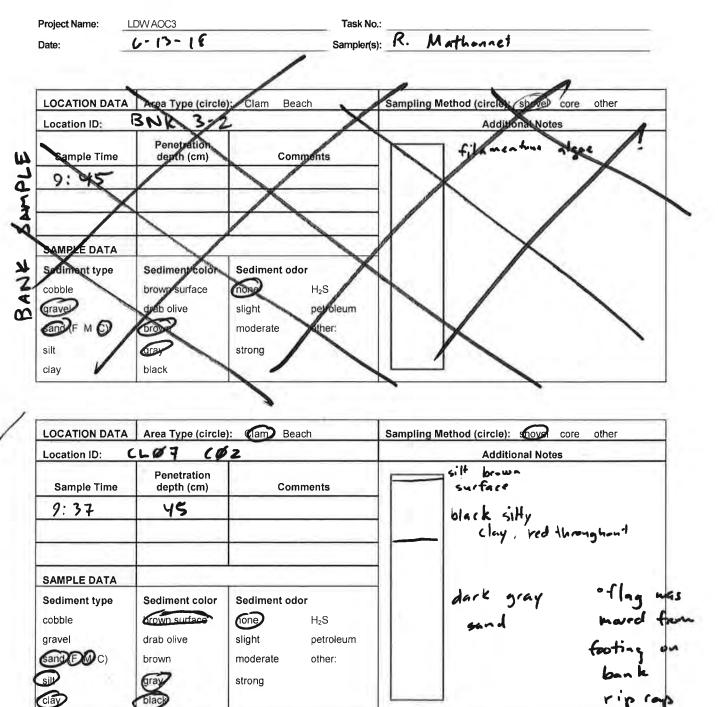
Task No.: L. READ Sampler(s):

LOCATION DATA Area Type (circle): Clam Beach Sampling Method (circle): shovel obre other Location ID: BP4 A G **Additional Notes** Penetration brown silty surface ayer Sample Time depth (cm) Comments light gray sitty sand throughout many clams Peloc. along transact 10.35 45 (fip rup SAMPLE DATA Sediment type Sediment color Sediment odor none cobble brown surface H₂S gravel drab olive slight petroleum lg cobble/rip.rap@ bottom of hule. sand (FM C) brown moderate other: gray life silt/ strong clay black

LOCATION DATA Area Type (circle): Clam Beach Sampling Method (circle): shovel) core other Location ID: CL-\$7-AØ **Additional Notes** Penetration brown silty surface layer Sample Time depth (cm) Comments Win Alft. 40 10:44 Dork gray/black silty of BP4-AOI Sand throughout. Diff. Color ador, texture Reloc. along transect. (ip 12p) Several clams SAMPLE DATA Sediment type Sediment color Sediment odor cobble brown surface none H2S gravel drab olive slight petroleum sand (F)M C) brown moderate other: gray dK silt strong black clay

Project Name: _L	DW AOC3		Task No.:		4	
Date:	6-13-18		Sampler(s):	R. M	athomet	
	T	1	1/1	_		
LOCATION DATA	Area Type (circle	: Clam Beach	/Sa	mpling Me	ethod (circle): shovel core	other
Location ID: BR	5 DOF				Additional Notes	
Sample Time	Penetration depth (cm)	Comment	s / [
11-06	15					
SAMPLE DATA						
Sediment type	Sediment color	Sediment odor				
cobble	brown surface	nope H ₂ S	s	/		
grayel	drab olive	slight pet	roleum	/		
sand (F M C)	brown	moderate oth	er:	/		
silt	gray /	strong		/		
clay	black		1			

Location ID: C	107-0	01	Additional Notes
Sample Time	Penetration depth (cm)	Comments	gravel + sand
9:20	45		
			· moved location
			due te
SAMPLE DATA	1		rip rap
Sediment type	Sediment color	Sediment odor	sand
cobble	frown surface	none H ₂ S	
gave	drab olive	slight petroleum	
(FOC)	brown	moderate other:	
silt	Tay	strong	
clay	black		



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Project Name: Date:

LDW AOC3 0/13/18 Task No.:

Sampler(s): N. Maas

LOCATION DATA	Area Type (circle)	: Clam Beach	Sampling Method (circle): shove core other
Location ID: CL	07-802		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
0918	30 cm	moved to avoid racky substrate	scattered shell fragments patelies of arange
SAMPLE DATA Sediment type cobble gravel (sand) (FM) C)	Sediment color prown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other:	uniform throughout brown/gray
sill	gray black	strong	

LOCATION DATA	Area Type (circle)	: Clan Beach	Sampling Method (circle): shovel core other
Location ID: CL	Ø7-BØ3	<u> </u>	Additional Notes
Sample Time	Penetration depth (cm)	Comments	Brown surface
0938	45cm	moved to avoid	gray sand layer ~10 cm
		rocks/ pilings/ brick	s ~ l0 cm
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	brown/gray uniferm
cobble	brown surface	none H ₂ S	
(sand (FMC)	brown	slight petroleum moderate other:	
silt	gray	strong	· small grave) on surface
clay	black		gover en sonal

Project Name:	LDW AOC3	Task No.:		T	
Date:	6-13-18	Sampler(s):	P	Mathonnet	

Sample Time	Penetration depth (cm)	Comments	brown surt
9:58	45		black -silfy day
SAMPLE DATA Sediment type cobble	Sediment color	Sediment odor	
	drab olive brown gray	slight petroleum moderate other: strong	gray San d

Location ID:	3P4 - B0	ry 🕑	Additional Notes	
Sample Time	Penetration depth (cm)	Comments	-brows suiface	to averal
10: 17	45		dart gray - silly clay	moved location due to siprop
Sample DATA Sediment type cobble grave sand (F () 6 sill	Sediment color brown surface drab olive brown Gray Act k	Sediment odor H ₂ S slight petrolèum moderate other: strong	- grey - cand	

)

Project Name:	LDW AOC3	Task No.:	
Date:	6/13/18	Sampler(s): R.M, NM	_

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shove core other
Location ID: Bi	24-1803		Additional Notes
Sample Time	Penetration depth (cm)	Comments	> slight brown surface
1100	45cm	ure:	- Slight brown surface
SAMPLE DATA) uniform graul
Sediment type cobble	Sediment color brown surface	Sediment odor	brown gray / brown sand
sand(F)MC)	drab olive	slight petroleum moderate other:	
silt clay	black	strong	

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): (shove) core other
Location ID: B	PY-EQF		Additional Notes
Sample Time	Penetration depth (cm) 4 5 cm	comments mared to avoid water	Slight brown sorface R-5-10 cm gray sand
SAMPLE DATA Sediment type cobble gravel cand D (T) silt clay	Sediment color brown surface drab olive brown gray black	Sediment odor none H ₂ S slight petroleum moderate other: strong	- red/orange sound uniform throughad

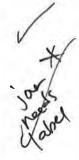
Project Name: Date:

LDW AOC3 Task No.: Sampler(s): L.Re 6-13-18 p 2

LOCATION DATA	Area Type (circle): Clam) Beach	Sampling Method (circle): shovel core other
Location ID: CL	Ø8-B05	BØ5 Additional Notes	
Sample Time	Penetration depth (cm)	Comments	dk. gray sand w/rel flecks
1215	45cm	Sand very soft	dk. gray sand wither
		Filled quickly w)	flecks
		water	
SAMPLE DATA			1
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

Sample Time	Penetration depth (cm)	Comments	
1235	32	on 3-tries, hit	
	Solid resis	tance & n 32 cm	Superinface up glas
SAMPLE DATA			ceramic bits.
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (F () C)	brown	moderate other:	
silt	gray	strong	
clay	black		

Task No.: +25 h 4 Sampler(s): L. Read LDW AOC3 Project Name: 6/13/18 Date:



	Area Type (circle		Sampling Method (circle): shove/ core other
Location ID: B	P4-B02	2	Additional Notes
Sample Time	Penetration depth (cm)	Comments	- 2 cm greenish prown alga me
1104	45 cm	- trace would debris/ churches	- 2 cm clay w/ orange stain - 10 cm dk gray/blek clay-sand
SAMPLE DATA			
Sediment type cobble gravel sand (F)M C)	Sediment color brown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other:	- wood chunks - pochets & dongray/ black sand. - brick fragments
silt	gray black	strong	Chick that is
Clayerts	<u> </u>		
	Area Type (circle		Sampling Method (circle): shovel core other
LOCATION DATA	Area Type (circle -ØB – BØ Penetration depth (cm)		Additional Notes
	Penetration		Additional Notes Brown & gray Sanly R
LOCATION DATA Location ID: CL Sample Time	Penetration depth (cm) 42cm	Comments Reloc. Sample. Covered W/Rip-Re	Additional Notes Brown & gray Sanly R
LOCATION DATA Location ID: CL Sample Time	Penetration depth (cm) 42 cm of debris	Comments Reloc. Sample. Covered W/Rip-Re on beach (tives,)	Additional Notes Brown & gray Sanly R
LOCATION DATA Location ID: CL Sample Time 1155	Penetration depth (cm) 42cm	Comments Reloc. Sample. Covered W/Rip-Re on beach (tives,)	Additional Notes Brown & gray Sanly R
LOCATION DATA Location ID: CL Sample Time 1155 Torg Lots	Penetration depth (cm) 42 cm of debris	Comments Reloc. Sample. Covered W/Rip-Re on beach (tives,)	Additional Notes 2 Brown + gray Sanly R Scm. dK gray Sand
LOCATION DATA Location ID: CL Sample Time IISS Tors Lots SAMPLE DATA Sediment type cobble gravel	Penetration depth (cm) 42 cm 42 cm 4	Comments Reloc. Sample. Covered W/Rip-Re on beach (Hives, N Sediment odor	Additional Notes Brown & gray Sanly R
LOCATION DATA Location ID: CL Sample Time IISS Torg Lots SAMPLE DATA Sediment type	Penetration depth (cm) 42 cm 42 cm 4 location of debris Sediment color brown surface	Comments Reloc. Sample. Covered W/Rip-Re on beach (Hives, N Sediment odor NONE H2S	Additional Notes Brown & gray Sanly R
LOCATION DATA Location ID: CL Sample Time IISS Tors Lots SAMPLE DATA Sediment type cobble gravel	Penetration depth (cm) 42 cm 42 cm 4	Comments Reloc. Sample. Covered W/Rip-Re on beach (Hives, N Sediment odor none H2S State petroleum	Additional Notes Brown & gray Sanly R

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Task No.: Task 4 Sampler(s): L. Read LDW AOC3 Project Name: Date:

LOCATION DATA	Area Type (circle): Clam (Beac	h)	Sampling Method (circle): shovel core other
Location ID: BP	4-E\$6		1	Additional Notes
Sample Time	Penetration depth (cm)	Comn	nents	due to 19. surface cobble of bricks.
1250	45		Cart	due to 1g. subface
				coloble of bricks.
			_	the file dik quick
SAMPLE DATA				the filled in quicks w/ red-brown colored
Sediment type	Sediment color	Sediment odo	r	W/ red-brown colored
cobble	brown surface	none	H₂S	water
gravel	drab olive	slight	petroleum	Wetter
sand M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

OCATION DATA		: Clam Beach	Sampling Method	(circle) shoved core other
ocation ID:	1-966	//		Additional Notes
Sample Time	Penetration depth (cm)	Comments		
2/				
SAMPLE DATA	1			
Sediment type 🔪	Sediment color	Sediment odor		
cobble	Brown surface	none H ₂ S	K	
gravel	drab office	slight petroleur	n/ \	
sand (FMC)	brown	moderate other:		
silt	gray	strong		
clay	black	\times		

Project Name:

Date:

LDW AOC3 6/13/18

Task No.: Sampler(s): RM, NM

LOCATION DATA				Sampling Method (circle): shove	core other
Location ID: B	P4-E04			Additional No	otes
Sample Time	Penetration depth (cm)	Com	ments	brown surfac	location
12:49	45			Line gray so	
				with scattered orange	whether the sign of the sign o
SAMPLE DATA	·			scattered	
Sediment type	Sediment color	Sediment odo	or		
cobble	brown surface	(010)	H₂S		
gravel	drab olive	slight	petroleum		
and (P () C)	brown	moderate	other:		
silt	gray blueich	strong			
412	black				

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID:			Additional Notes
Sample Time	Penetration depth (cm)	Comments	-
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

LDW AOC3 Project Name: Task No.: Sampler(s): RM NW Date:

LOCATION DATA	Area Type (circle): Clan Bead	ch	Sampling	Method (circle): shoved co	re other
Location ID: CL	08. BØ3	0			Additional Notes	
Sample Time	Penetration depth (cm)	Comr	nents		Sandy gravel	m.w.g
1:02 50	45		1		9	due to
1300	4				grey sand	due to where lin
SAMPLE DATA					grey sand orange throughout	
Sediment type	Sediment color	Sediment odo	r		40]	
cobble	brown surface	1000	H₂S			
Geo _	drab olive	slight	petroleum			
and (FUN)	brown	moderate	other:			
silt	gray	strong				
clay	black				_	

LOCATION DATA Area Type (circle): Clam Beach				Sampling Method (circle): shovel core other		
Location ID:				Additional Notes		
Sample Time	Penetration depth (cm)	Comm	ents			
SAMPLE DATA						
	Sediment color	Sediment odor				
Sediment type			ЦС			
cobble	brown surface		H₂S petroleum			
Sediment type cobble gravel sand (F M C)		slight	H₂S petroleum other:			
cobble gravel	brown surface drab olive	slight	petroleum			

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LDW AOC3 Project Name: Task No.: Sampler(s): RM 6.13.18 NM Date:

LOCATION DATA	Area Type (circle		Sampling Method (circle): show core other
Location ID:	CL \$8-1	501	Additional Notes
Sample Time	Penetration depth (cm)	Comments	woody
11:47	५९	moved slightly to	debris
		avoid water	hroughout throughout
			- throughout
SAMPLE DATA		1	
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
silt	Glark	strong	
clay	black		

LOCATION DATA			Sampling Method (circle): shove other Additional Notes
Sample Time	Penetration depth (cm)	Comments	woody debris
1155	45 cm		
SAMPLE DATA	Sediment color	Sediment odor	Uniform gray throughout
Sediment type			

Project Name:

LDW AOC3 6/13/2018 Task No .: task 4

Date:

Sampler(s): NM

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel) core other	
Location ID: B	P4-B05		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	- 05 cm & layer of filamentars Sigae at Surface	
1055	45		- Clay	
SAMPLE DATA			5-45 gray/brann	
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	cm Sand	
sand(F) M C) (silt) (clay)	gray black	moderate other: strong		

LOCATION DATA	Area Type (circle)	Clam) Beach	Additional Notes
Sample Time	Penetration depth (cm)	Comments	- layer of filamentaus algae at surface
1137	45cm		urgue at sortate
SAMPLE DATA	Sediment color	Sediment odor	Uniform dork Qual Fina
cobble gravel (sand (6) M C)	brown surface drab olive brown	none H ₂ S slight petroleum moderate other:	Sand + silt
silt	gray black	strong	

Project Name: Date:	12-13-18 12-13-18		Task No. Sampler(s)	A.A	4 NM
LOCATION DATA	Area Type (circle): Clam Bea	2	Sampling N	Nethod (circle): signature core other Additional Notes
Sample Time	Penetration depth (cm)	Com	ments		gray orange debri
SAMPLE DATA	Sediment color	Sediment od			dart fine sitt
cobbie gravel	brown surface drab olive brown	slight moderate strong	H ₂ S petroleum other:		

Location ID:	108 - AR	11	Additional Notes
Sample Time	Penetration depth (cm)	Comments	see above
12:08	५९		
SAMPLE DATA	Sediment color	Sediment odor	
cobble gravel	brown surface drab olive	none H ₂ S slight petroleum	
sand (F M C) silt	brown gray	moderate other: strong	
clay	black		

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Project Name:	DWAOC3 €(3-\$B •	Task N	a: 4 s): NM, RM
LOCATION DATA	Area Type (circle)	: Clam Beach)	Sampling Method (circle): shovel core other
Location ID: RP	4-EB3		Additional Notes
Sample Time	Penetration - depth (cm)	Comments	Brown surface
1228	45cm		dark gray sill/fine sond
SAMPLE DATA		1	
Sediment type cobble gravel (sand PM C) sijt	Sediment color brown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other: strong	Bottom 10-15 cm red sand

LOCATION DATA	Area Type (circle)	: Clam Bear	Sampling Method (circle): solvel core other
Location ID: B	PY.EDZ	ش	Additional Notes
Sample Time	Penetration depth (cm)	Comments	brown surface
12:33	45		dart gray
		4	- dark grny sand amnjë turonshont
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	wedium grey
gravel	drab olive	slight petroleum moderate other:	Bred
silt	dia dia	strong	
clay	black	0.0.1.	

Project Name:	LDW AQC3	Task No.:
Date:	6/14/18	Sampler(s): AE, JR, AV

LOCATION DATA	Area Type (circle): (Clam)Beach	Sampling Method (circle): shovel core other
Location ID: Cl	-01-A03		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1310	45	Large Woody dobo	S
SAMPLE DATA			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	
sand (F M 6) silt clay	gray black	moderate other: strong	

LOCATION DATA	Area Type (circle): (Cham) Beach	Sampling Method (circle): shove core other
Location ID: CL	gl- Rdl		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Location was significantly relocated to better
1340	45	Caroler Key we	a relocated to better
~		presting	sepressent claim habitat
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface)	none) H ₂ S	
gravel	drab olive	slight petroleum	
sand (FM)C)	brown	moderate other:	
silt	gray	strong	
clay	black	l	

Project Name:	LDW AOC3	Task No.: A0C3 9	
Date:	6.14.18	Sampler(s):	<u>.</u>
			9
			4.5.0

LOCATION DATA	Area Type (circle): Clam Beach				oling Me	thod (circl	e): shovel	core other	
Location ID: CL	Location ID: CLG1 - A05			Additional Notes				بربغته	
Sample Time	Penetration depth (cm)	Comn	nents	-		V	NIFO	em	
1308	45		9			· ·			
	1								
	1.15		5	1	2		iπ.	+-	
SAMPLE DATA									
Sediment type	Sediment color	Sediment odor	r						
cobble	brown surface	none	H_2S	11	2		×.		
gravel	drab olive	slight	petroleum	11	*				
sand (FM) C)	brown	moderate	other:	11					
SIII	gray	strong							
clay	black	1				1			

LOCATION DATA	Area Type (circle): Clap Beach	Sampling Method (circle): shovel core other
Location ID: C	101 - AO	1	Additional Notes
Sample Time	Penetration depth (cm)	Comments	WIFORM
1329	45		
SAMPLE DATA			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor hone H ₂ S slight petroleu	m
silt ~	brown (gray)	moderate other: strong	
clay	black		

Project Name:	LDW AOC3	Task No.:4
Date:	6/14/18	Sampler(s):
		i i Ma

		Clam Beach	Sampling Method (gircle) shove core other
Sample Time	Penetration depth (cm)	Comments	
1312	45		
SAMPLE DATA			
Sediment type cobble	Sediment color brown surface	Sediment odor	
gravel sand (A) (A) (C)	drab olive	slight petroleum moderate other:	
silt	gray black	strong	

LOCATION DATA	Area Type (circle): (Clam) Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1341	45		
SAMPLE DATA			
Sediment type	Sediment color brown surface 1	Sediment odor	
gravel	drab olive	slight petroleum	500 AU
sand (FM)C)	brown	moderate other:	1 des ca
clay	gray black	strong	interest afrore

- R.

Project Name:	LDW AOC3	Task No.:
Date:	6-14-18	Sampler(s): LR, DW

Sample Time	Penetration depth (cm)) Comments	
BH-1325	45	field due collector	Gray saal shell fragments
SAMPLE DATA	Sediment color	Sediment odor	
cobble gravel [*]	brown surface (drab olive	none H ₂ S slight petroleum	- 30 reddishbrown Sand
silt (gray	moderate other: strong	- 36 darker gray-black 45 cm Sand

LOCATION DATA	Area Type (circle)	: Clam Beach	Sampling Method (circle): shovel core other
Location ID:	PI-AØ	4 BOT-AQ4-	FD Additional Notes
Sample Time	Penetration depth (cm)	l Comments	- Gray sand
1345	45	FD collected	
	· · · · · · · · · · · · · · · · · · ·	hitrositione - moved	15-30cm Stand w/ Some reddich color
		location	15-30cm gray w/
SAMPLE DATA		April 194	some reddich
Sediment type	Sediment color	Sediment odor	color
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	gray sand
sand (F M C)	brown	moderate other:	
silt	gray	strong	
clay	black		

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Project Name:	LDW AOC3	Task No.:	
Date:	e/14/18	Sampler(s): M.Y. + R.C.	_

LOCATION DATA	Area Type (circle	: Clam Beach	Sampling Method (circle): shove) core other
Location ID:	1- ADZ 1-	6 + 1)	Additional Notes
Sample Time	Penetration depth (cm)	Comments	gravel on surface
1310	45		Sand throughout
10112			. shell fragments
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (F M C)	brown	moderate other:	
silt	gray	strong	
clay	black		

LOCATION DATA	Area Type (circle)	: Clam (Beach	Sampling Method (circle): shovel core) other
Location ID: B	P1-B02	TFD	Additional Notes
Sample Time	Penetration depth (cm)	Comments	on surface
SAMPLE DATA	Sediment color	Sediment odor	
cobble gravel sand (F M C)	drab olive	none H ₂ S slight petroleum	
silt clay	gray black	moderate other: strong	

1

Project Name:	LDW AOC3	Task No.:	
Date:	6/14/18	Sampler(s): BC, MY, CW	2

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle), shovel) core other
Location ID: Br	1- Bas (+FD)	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1315	45	Suplicate	Some poclats of black sediment near surface
SAMPLE DATA Sediment type	Sediment color	Sediment odor	very sandy
cobble gravel sand(F(M)C)	drab olive brown	none H ₂ S slight petroleum moderate other:	
clay	gray black	strong	

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other	
Location ID: BP	1-BOI (1	FD)	Additional Notes	
Sample Time	Penetration depth (cm)	Comments		
1340	45	duplicate	vegetated bank	
SAMPLE DATA	Sediment color	Sediment odor		
cobble gravel	brown surface	none H ₂ S slight petroleum		
sand (F M C)	brown	moderate other:		
silt	gray	strong		
clay	black			

		Task No.:			LDW AOC3	Project Name:
Date: 19-0-6-14-18 Sampler(s): KM NM	JM	RM		6.14-18	12000	Date:

Clam

each

Area Type (circle):

LOCATION DATA

Sampling Method (circle): shovel other core BP1 Location ID: BP 0 **Additional Notes** Penetration Sample Time depth (cm) - shell fray Comments 13.22 45 Ashell frags brows 0 SAMPLE DATA Sediment type Sediment color Sediment odor cobble hone brown surface H_2S grave drab olive slight petroleum ani M C) brown moderate other: gra black silt strong clay

LOCATION DATA	Area Type (circle): Clam Beach			Sampling Meth	od (circle): shovel c	ore other
Location ID:				/	Additional Notes	/
Sample Time	Penetration depth (cm)	Comments		\square		/
/			1		. /	
		/				
SAMPLE DATA	1	/			/	
Sediment type	Sediment color	Sediment odor			/	
cobble	brown surface	none H ₂ S				
gravel	drab olive	slight petr	bleum			
and (FMC)	brown	moderate othe	r:			
silt	gray	strong		1		
lay	black	•	/	1		

Project Name: <u>L</u> Date:	DWAOC3 6/14/18	Task N	(s): <u>NM</u> , <u>RM</u>
LOCATION DATA	Area Type (circle	e): Clam Beach (+ FO)	Sampling Method (circle) shovel core other
Sample Time	Penetration depth (cm) 45cM	comments relacated slightly due to water live	Brown + red coarse sghd
SAMPLE DATA		dup collected	Gray sand
Sediment type cobble gravel cand (F M C)	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum moderate other: "	+ worms
silt clay	gray black	strong	

LOCATION DATA	Area Type (circle		Sampling Method (circle): stove core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
13:15	45		- red orange throngsout grey med sand
SAMPLE DATA			- grey mea
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	Shud
sand F (1)	brown	moderate other:	
silt clay	black	strong	

Project Name: Date: 12 JUN 2018

Task No.:

GRISTEN

174

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): (shovel) core other
Location ID: BP2-A01			Additional Notes
Sample Time	Penetration depth (cm)	Comments	BROWING SILT AT
10:00	1.15cm		BROWN SILT AT SURFACE
			GRAY CLAY THROUGHDJT
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	APEANIC (WOOD)
cobble)	brown surface	none (H ₂ S)	ORGANIC/WOOD DEBRIS AT DEPTH
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	MAINTIMAAL SMALL
silt	gray	strong	MINIMAL SMALL COBBLES INFTERSED
clay	black		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle):(shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	BROWN SILT AT
1014	45cm	OFFSET ~ 3FT	SUZFACE
	17 ×	QUETO DEBRIS	LIAY AT DOPTH. WI SAN
SAMPLE DATA			WOOD DEBRIS, COBBIE,
Sediment type	Sediment color brown surface drab olive	Sediment odor none H2S (slight) petroleum	BRICKS, AND POSSIBLE SHELL HASH
sand (FM C)	brown	moderate other:	FULLINCE SITE
clay	black	strong	

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Project Name:	LDW AOC3	Task No.:	4
Date:	14 JUNI 208	Sampler(s):	BRIAN, KRISTGAL

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	BOWN BROWN SILT SURFACE W COBBLE AT SURFACE
SAMPLE DATA Sediment type cobble gravel sand (F M C) silt	Sediment color brown surface drab olive brown gray black	Sediment odor none H ₂ S slight petroleum moderate other: strong	BINGE BLACK CIAY BE WOOD FEBRIS GRAV -THEOD GARDT GRAV CIAY D DEPTH

LOCATION DATA	Area Type (circle): Clam Beach		
Location ID:			Additional Notes	
Sample Time	Penetration depth (cm)	Comments	×	
SAMPLE DATA				
Sediment type	Sediment color	Sediment odor		
cobble	brown surface	none H ₂ S		
gravel	drab olive	slight petroleum		
and (FMC)	brown	moderate other:		
silt	gray	strong		
clay	black	24		

6

Project Name:	LDW AOC3		Task No.:	4	
Date:	14 JU	y 2018	Sampler(s):	BRIAN, KRISTIN	
,	N				in the
LOCATION DA	TA Area Type (circl	e): Clam Beach		Sampling Method (circle): shovel core	other

in the second

Location ID: **Additional Notes** Penetration BROWN SILT SURFACE Sample Time depth (cm) Comments 20 L E UFT 25 100 DEBRI 12/ SIKUL HASH THROUGHOUT SAMPLE DATA WOOD DEPRIS THROUGHOUT Sediment type Sediment color Sediment odor none cobble brown surface, H₂S 0 gravel drab olive slight petroleum sand (F M C) brown moderate other: silt gray) strong clay black

LOCATION DATA Area Type (circle): Clam Beach			Sampling Method (circle):(shove) core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	BRICKS AT
1054	45cm	OFFSET 2FT	BRICKS AT SURFACE WI BLOW
		DEBRIS	SILT
SAMPLE DATA	Cadimantaslar	Sediment odor	SIGNIFICANJT WOOD DEBRIS
Sediment type	Sediment color	none (H ₂ S)	THROUGHOOI WI
gravel sand (F M C)	drab olive brown	slight petroleum other:	SOME BRICES MIHOR SHELL HASH
silt	gray	strong	KARINGE SAKOLA MARAN

Project Name: Date:

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LDW AOC3 2018 UNT

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Task No.: BRIAN Sampler(s):

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DISTAN

LOCATION DATA	Area Type (circle)	: Clam Beach		Sampling Method (circle): shovel core other
Location ID: BP2-AD5				Additional Notes
Sample Time	Penetration depth (cm)	Commen	ts	BROWN SILT AT SURFACE W/ GRAVIEL
1114	45cm		0	DAVIER IN COAVEEL
				SORTICE DUT CAL
				BLACK CLAY
SAMPLE DATA		k - 5		BLACK CLAY D~15-30cm
Sediment type	Sediment color	Sediment odor		TEPTH
cobble	brown surface	none H ₂	S	10. 11.
gravel	drab olive	slight pe	etroleum	
sand (F M C)	brown	moderate otl	her:	CONT (IAV D)
silt	gray	strong		GRAN CLAY D DEPTH
(člay)	black			DEPTH

LOCATION DATA	Area Type (circle)	: Clam Beach	Sampling Method (circle): shove) core other
Location ID:	3PZ-40-	f U	Additional Notes
Sample Time	Penetration depth (cm)	Comments	ALGEA ALCEA
1151	HEAM		BLACK HILGER WI THIN BLACK LAVE
			LILLET BROWN
SAMPLE DATA			- GRAY SOIRFAE MIXED IN
Sediment type	Sediment color	Sediment odor	LIGHT ORAY
cobble	brown surface	none H ₂ S	DRY CLAY
gravel	drab olive	slight petroleum	OT DESTLY
sand (F M C)	brown	moderate other:) CEPTITI
silt	gray black	strong	

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Project Name: LDW AOC3 Date:

Task No.: Sampler(s): MY

R.C.

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LOCATION DATA	Area Type (circle)	Clam, Beach	Sampling Method (circle): shovel core other
Sample Time	Penetration depth (cm)	Comments	-seaveed on suface
1106	45		Clay till 40cm deep
SAMPLE DATA			40 cm
Sediment type	Sediment color	Sediment odor	
cobble (gravel	brown surface	none H₂S slight petroleum	
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

	Area Type (circle)	: Clam Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	- Toom {sitt/fine sand
	19		· bricks throughout seaweed on surface
SAMPLE DATA Sediment type	Sediment color	Sediment odor	- Cley
cobble (gravel sand (5 M C)	brown surface drab olive brown	none H ₂ S slight petroleum moderate other:	
Silt	gray black	strong	

Task No.: Sampler(s): Project Name: LDWAOC3 BRIC-113 П, Date:

LOCATION DATA	Area Type (circle	Clam Beach	Sampling Method (circle): shovel core other
Location ID: $(1-02-D01)$			Additional Notes
Sample Time	Penetration depth (cm)	Comments	· seaweed (Ulvasp) on
1151	45	1	Surtau
			- Shell tragments
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	Grown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (F)M C)	brown	moderate other:	
silt	Start	strong	
clay	black		

LOCATION DATA	Area Type (circle	: Clan Beach	Sampling Method (cl	Additional Notes
Sample Time	Penetration depth (cm)	Comments	5cm Bble	icksoil cobble at
1210	40	, 2 (top
SAMPLE DATA				· gravel throughout · hard layer of sa
Sediment type	Sediment color brown surface drab olive	Sediment odor hone H ₂ S slight petroleum	Ξ	gravel mix @ 400 ceuld not penetra
sand (F M C)	gray	moderate other: /		
clay	(black)			-

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INTERTIDAL	SURFACE SEDIN	MENT COLLEC	TION FORM
Project Name:	LDW AOC3		Task No.: AOC3 1
Date:	6-14.18		Sampler(s):

Sample Time	Penetration depth (cm)	Comments	
1004	4,5		
AMPLE DATA	Sediment color	Sediment odor	
obble ravel	brown surface drab olive	none H ₂ S slight petroleum	
and (F M C)	brown gray.) bläck	moderate other: strong	

LOCATION DATA	Area Type (circle		Sampling Method (circle): shovel core other
Location ID: CLOZ-MQ4			Additional Notes
Sample Time	Penetration depth (cm)	Comments	Corsiste PRESE O Surface
1035	45		P Surface
		3	
SAMPLE DATA			FIDEROUS TERTUR
Sediment type	Sediment color	Sediment odor	FIDEROUS
cobble C	brown surface	none tos	? Tecture
sand (F (M)C)	drab olive brown	_slight petroleum moderate other:	LEWATION MENED,
	gray	strong	DEBAIS @ Depth
clay	black		DEBLIS @ Depth

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Project Name: Date: LDW AOC3

Task No.: Add3 Sampler(s):

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle); shove core other
Location ID: CLOF - JAI			Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1159	45		WHITECHUNKS
			e 12 in depter
SAMPLE DATA		r	
Sediment type	Sediment color	Sediment odor	
cobble	brown surface)	H ₂ S	
gravel	drab olive	slight petroleun	1
sand (FMC)	brown	moderate other:	
silt	gray wit ITE	strong	
clay	black		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID:			Additional Notes
Sample Time	Penetration depth (cm)	Comments	
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

Project Name: Date:

LDW AOC3

Task No.: 4 Sampler(s): JR

LOCATION DATA	Area Type (circle): Clapi Beach		Sampling Method (circle): shove core other
Location ID: CLO2-XJQ3			Additional Notes
Sample Time	Penetration depth (cm)	Comments	SAMPLE MONTED
1215	45	N	From og wc. (due to rip rap)
SAMPLE DATA	0		
Sediment type cobble gravel	brown surface	Sediment odornoneH2Sslightpetroleum	
sang (MC) (silt) (clay	gray black	moderate other: strong	

LOCATION DATA	Area Type (circle	e): Clam Beach	Sampling Method (circle): shoved core other
Sample Time	Penetration depth (cm)	Comments	Additional Notes
/			
SAMPLE DATA	Sediment color	Sediment odor	7
ravel	brown surface drab olive	none H ₂ S slight petroleum	
and (F M C) ilt	brown gray	strong	
lay	black		1×

Project Name:	DWAOC3 6114118		_ Task No.:AOC_3_4 Sampler(s):AV
	Area Type (circle	Clan Beach	Sampling Method (circle): Shovel core other
Location ID:	Penetration depth (cm)	Comments	ts
SAMPLE DATA Sediment type	Sediment color	Sediment odor	
cobble gravel sand (F) (M) C)	brown surface drab olive brown	none H ₂ S	troleum
silt	gray black	strong	

LOCATION DATA	Area Type (circle): (Clam) Beach	Sampling Method (circle) shove core other
Location ID:	PULS-CLO	2-m02	Additional Notes
Sample Time	Penetration depth (cm)	Comments	Capplalacual
1019	45		- Cobblegsavel Sand
SAMPLE DATA			Clau
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	Clay
sand (F M 5) silt	brown	moderate other:	
clay	black		

Project Name: LDW AOC3 Task No.: 6114118 Sampler(s): Date:

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel ore other
Location ID:	W18-CLO	a-mos	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1036	45		
SAMPLE DATA	4	-	
Sediment type cobble gravel	Sediment color brown surface drab olive	Sodiment odor none H ₂ S slight petroleum	
sand (A) C) Silt clay	Gray FUSH	moderate other: strong	

	Area Type (circle)		Sampling Method (circle): shovel core other
Sample Time	Penetration depth (cm)	Comments	Additional Notes grey brawn rust
SAMPLE DATA Sediment type cobble	Sediment color	Sediment odor	brown brown
gravel sand (P) (O) (O) (C) Sill) clay	drab olive brown fust gray black	slight petroleum moderate other: strong	

Project Name: LDW AOC3 Task No.: AVJAE 1/18 (0/12 Date: Sampler(s):

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID:	OW18-CL	02- JO2	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1201	45		
SAMPLE DATA			rust
Sediment type	Sediment color brown surface	none (H ₂ S)	• 1 T
grave) sand (F M	drab olive	slight petroleum moderate other:	black
siit	gray (USF	strong	6lack

Location ID:			Additional Notes
Sample Time	Renetration depth (cm)	Comments	
SAMPLE DATA	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

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LDW AOC3 Project Name: Task No.: Sampler(s): AARON E, JR, AV 4 Date:

LOCATION DATA	Area Type (circle	Clam Beach	Sampling Method (circle) shovel core other
Location ID: CL	p1-10		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1000	45	Plant fibers through	
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
Silt	gray	strong	
Pay,	black		

LOCATION DATA Area Type (circle): Clam Beach Location ID: こしダスーへんの (Sampling Method (circle): shove	0
Sample Time	Penetration depth (cm)	Comments		4
1015	45			
SAMPLE DATA				
Sediment type	Sediment color	Sediment odor		
gravel sand (F M C) silt)	drab olive brown gray)	slight petroleum moderate other:		
Clay	black	strong		

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 LDW AOC3
 Task No.:
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 6/14/18
 Sampler(s):
 AE, JR, AV
 Project Name: Date:

LOCATION DATA Area Type (circle): Clam Beach Location ID: じんのとっかゆろ			Sampling Method (circle): shove core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1025	45	Clay at better sand typesed mind to sis	the
SAMPLE DATA			
Sediment type	Sediment color brown surface	Sediment odor none H ₂ S	
gravel sand (F M	drab olive brown	slight petroleum - moderate other:	
silt clay	gray black	strong	

Location ID: CL	BZ-KAI	0	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1040	45		
SAMPLE DATA	Sediment color	Sediment odor	
cobble /	brown surface	none H ₂ S	
5		slight petroleum	
gravel sand (F MC)	drab olive brown	moderate other:	
		moderate other: strong	

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Project Name:	LDW AOC3	Task No.:
Date:	6/14/18	Sampler(s): AE, JR, AV

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shove core other
Location ID: CL	ØZ-GÖZ		*Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1120	45	A lot of woody debris	
SAMPLE DATA			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	
sand (F M C)	brown gray	moderate other:	
clay	black	onong	

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shove) core other
Location ID: CLO	52- EOR		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Sumpled w/in safety
1135	45		Sampled w/in safety booms. In shell fragmouts throughout core
SAMPLE DATA			
Sediment type cobble gravel sahd (F M C)	Sediment color brown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other:	
silt (stay	gray brack	strong	

	DWAOC3	Task N	14. 110
LOCATION DATA	Area Type (circle	: Clary Beach	Sampling Method (circle): shove core other
Location ID: C	LØ2- CA	OI	Additional Notes
Sample Time	Penetration depth (cm)	Comments	brown /red shell frage
12:12	45		
SAMPLE DATA			Alpet gray Fine sound/sill
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
Grave	drab olive	slight petroleum	
Sand (FMC)	brown	moderate other:	
SIL	G	strong	light gray shell from the

The Kay

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Location ID: C	L02 A.	ØĨ	Additional Notes
Sample Time	Penetration depth (cm) 4.5cm	Comments	Sampling Method (circle): shovel core other Additional Notes Brown relocated Surface rip rop 4 filamen-lows algae
SAMPLE DATA Sediment type cobble gravel and F MC) silt	Sediment color brown surface drab olive brown gray	Sediment odor none H ₂ S slight petroleum moderate other: strong	unisonn caarse sand + grave



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LDW AOC3

6/14/18

Project Name: Date:

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Task No.; Sampler(s): RM, NM

LOCATION DATA	Area Type (circle): (Clam) Beach	Sampling Method (circle): shovel core other
Location ID: CL	Ø2- FØ1	0	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1030	45cm		7 / / ~ 10 cm
			Creanic woody
		1	Corganic woody debris
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	bra pp/anall
cobble	brown surface	none H ₂ S	(braion/gray Silt
gravel	drab olive	slight petroleum	811+
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

LOCATION DATA	Area Type (circle): Clam) Beach	Sampling Method (circle): /shovel core other
Location ID: Cl	02-FO	15	Additional Notes
Sample Time	Penetration depth (cm)	Comments	1-10-15 om sand
1055	45cm	1	
-			- G. patehy woody
SAMPLE DATA			S · patehy woody Netbris +
Sediment type	Sediment color	Sediment odor	2 orange
cobble	brown surface	none) H ₂ S	
gravel	drab olive	slight petroleum	organics f sand
sand (FMC)	brown	moderate other:	C GMal
silt	gray	strong	
clay	black		

LDW AOC3 Project Name: Task No.: 6/14/18 Sampler(s): RM, NM ~ Date:

LOCATION DATA): Clam) Beach	Sampling Method (circle): shovel core other
Location ID: CL	Ø2-HØG		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Top 10 cm
0954	45cm		Top 10 cm sand
SAMPLE DATA			- 10-15 cm fine SIH
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	S SIH
sand (F MC)	brown gray	moderate other: strong	3 sand
clay	black		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): (shovel) core other
Location ID: CL	02-H02	, U	Additional Notes
Sample Time	Penetration depth (cm)	Comments	Brown corface pateny gray
1010	45cm		pateny gray redvorange
SAMPLE DATA	Sediment color	Sediment odor	fine silf
cobble graveí sand (F M C)	drab olive	none H ₂ S slight petroleum moderate other:	
silt clay	gray black	strong	

Date:	ø/14/18		Sampler(s): RM, NM
LOCATION DATA	Area Type (circle); Clam Beach	Sampling Method (circle): shover core other
Location ID: CL	12-004		Additional Notes
Sample Time	Penetration depth (cm)	Comment	Brown surface +
112.5	45an		scotlered a lament
SAMPLE DATA			s Uniform gray
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	s) fine sand + si
gravel	drab olive	slight petr	troleum
Sand (M C)	brown	moderate othe	ner:
silt	gray	strong	
clay	black		

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Sample Time	Penetration depth (cm)	Comr	nents	8	rown surface	lan
1202	45cm	100			t filarentars o	ngu
]]]	· scattered	1
SAMPLE DATA					· scattered	det
Sediment type	Sediment color	Sediment odo	r		0	
cobble	brown surface	none	H₂S		silf/sand some medium	rde
gravel	drab olive	siight	petroleum),
Sand (EM)C)	brown	moderate	other:		/ SIIt/Salla	L
silt	grav	strong			some medium	1 SI
clay	black				near base of	hr

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 Project Name:
 LDW AOC3
 Task No.:
 4

 Date:
 6-17-18
 Sampler(s):
 RM
 NM

Area Type (circle): Clam Beach Sampling Method (circle): shove LOCATION DATA other core 61-62-643 Additional Notes Location ID: Surface Penetration brown Sample Time depth (cm) Comments filaner tours alger 11:38 45 grey silt sand complisitent SAMPLE DATA Sediment color Sediment odor Sediment type - ghell fragment - moved the due brown surface tone cobble H₂S drab olive slight gravel petroleum sand (F(M)C) brown moderate other: gray Sil strong to waterhace black clay

Location ID: 6	lgr - lg	sy -	Additional Notes
Sample Time	Penetration depth (cm)	Comments	brown surfice
11:49	45	1	consistent through out
SAMPLE DATA	Sediment color	Sediment odor	dark gray silt
		none H ₂ S	
cobble gravel sand (F M C)	drab olive brown	slight , petroleum moderate other:	

Project Name:	LDW AOC3	Task No.;	
Date:	6:14:2018	Sampler(s): NM RM	

Sampling Method (circle): for core other LOCATION DATA Clan Area Type (circle): Beach CL02- F04 Location ID: **Additional Notes** surt 2.2 Penetration 5 6 debris Sample Time depth (cm) NOOD Comments 45 10:47 641 throughout abundant layer of filamentous SAMPLE DATA Sedimenteolor Sediment odor Sediment type algac cobble prown surface none H_2S gravel drab olive slight petroleum (and OM C) brown moderate other: lin Gi dure strong gray black clay

Location ID: C	LØ2- DØ	56	Additional Notes
Sample Time	Penetration depth (cm)	Comments	brown surface
11:13	५८		- consistent dark grey silt below
SAMPLE DATA			debris
Sediment type	Sediment color frown surface	Sediment odor none	debris . moved location due to water line
gravel sand (FMC)	brown	moderate other:	due to water line
silt	grav	strong	

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Duals of November			4	4	
Project Name:	LDW AOC3	Task No.:			
Date:	6-14-18	Sampler(s):	RM	NM	

LOCATION DATA	Area Type (circle		ach	Sampling Method (circle): shovel) core other Additional Notes	
Sample Time	Penetration depth (cm)		iments	organic material	
10:17	45				
SAMPLE DATA				fine soft	
Sediment type	Sediment color brown surface drab olive	Sediment od	H ₂ S		
gravel sand (F M C)	gray	slight moderate strong	petroleum other:		
clay	black				

LOCATION DATA	Area Type (circle		511	Sampling Method (circle): show core other Additional Notes
Sample Time	Penetration depth (cm)	Comr	nents	. woody debrie
10:35	45			- throughout
SAMPLE DATA	Sediment color	Sediment odo		· consistent throughout
Sediment type cobble	brown surface	none	r H₂S	
gravel	drab olive	slight	petroleum	
sand (FMC)	browp	moderate	other:	
		atrana		
Fine Fine	gray	strong		

LDW AOC3 Task No.: Project Name: Sampler(s): RM 6-14-18 NM Date:

LOCATION DATA	Area Type (circle		Sampling Method (circle): shower core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
9:48	45		- 10-15 cm Sand
SAMPLE DATA	Sediment color	Sediment odor) fine silt/clay
cobble gravel	brown surface drab olive	nope H ₂ S slight petroleum	
@⊐ (= Ø() ¶]	brown	moderate other: strong	
Tay	black		

Location ID:	(L82- H,	FO		Additional Notes
Sample Time	Penetration depth (cm)	Com	ments	nedium ~10cm sand
10:01	45			sand
				bar silt
SAMPLE DATA				- Fine silt clay - light
Sediment type cobble	Sediment color brown surface	Sediment odd	pr H₂S	3.01
gravel Sam (F 🔞 C)	drab olive	slight moderate	petroleum other:	
97	(III)	strong		
clay	black			

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Project Name:	LDW AQC3	Task No.:	
Date:	6/14/18	Sampler(s): M.Y. + R.C.	

LOCATION DATA): Clam Beach	Sampling Method (circled: shovel) core other
Location ID: CL	02-807		Additional Notes
Sample Time	Penetration depth (cm)	Comments	woorly depris
91:51	45		Clay to sitt throughout
SAMPLE DATA			- Olirab olive Willown Sufface
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	vulbrain surface
sand (FMC)	brown gray	moderate other: strong	Ziocon drabotac cleark gray
clay	black		Cleark group

LOCATION DATA Area Type (circle): Clam Beach Location ID: (LØ2-BØ()			Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	- woody + organic debis
SAMPLE DATA Sediment type	Sediment color	Sediment odor	
gravel <	drab olive brown	slight petroleum moderate other:	
silt	gray black	strong	

LDW AOC3 Project Name: Task No.: 6-14-18 Date: Sampler(s): DW LR

LOCATION DATA	Area Type (circle): Cla)n Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	brown - clay algal layer (L) ca black to where (K) ca
	12		gray clay - "red (rust colored clay pockets (mottled) - 15 cm
SAMPLE DATA Sediment type cobble C gravel	Sediment color brown surface	Sediment odor none H ₂ S slight petroleum	uniform gray sand
Sand (FM C) sillt	brown Bray 7 black Mottle	moderate other: strong	

LOCATION DATA	Area Type (circle	a): (lam) Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1210	23cm		Z. sorface 2cm gray-stell Sitty clay - freed fra darkgray clay
SAMPLE DATA			$= \begin{bmatrix} y \\ z \\ z \end{bmatrix}$
Sediment type	Sediment color	Sediment odor	atter son to
gravel	drab olive	slight petroleum	consolidated
sand (FMC)	brown	moderate other:	material conductor
sil)-Surtace	gray black	strong	after 23cm too consolidated material, con't create sampleable hole after multiple attempts

OCATION DATA	Area Type (circle): Clam) Beach	Sampling Method (circle): shovel core other
ocation ID: C	LØ2 - DO	07	Additional Notes
Sample Time	Penetration depth (cm)	Comments	- 3 cm greenish-brown or - 3 cm gray (algac mar) : - 8 cm gray clay WI black Som organic matte
1105	45		+3 cma alayer (alga mar)
			gray clay w/ black
	5		Ben Som organic Marie
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	- 30 grong day wysand
obble	brown surface	none) H ₂ S	Quay Clay

Sample Time	Penetration depth (cm)	Comments	33cm brown sitt-cary
1130	40		Z Snay black clony Worms-few
SAMPLE DATA Sediment type cobble	Sediment color	Sediment odor	Could not penetrate deeper after several asternet
gravel sand (FMC)	drab olive brown gray	slight petroleum moderate other: strong	several astende

Project Name:	LDW AOC3	Task No.:	4	
Date:	6-14-18	Sampler(s):	LR, DW	

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shove core other Additional Notes	
Sample Time	Penetration depth (cm)	Comments	- B3cm peat, organic matter	
			atthes of organic matter (wood waste)	
SAMPLE DATA Sediment type cobble	Sediment color	Sediment odor none	(wood waste)	
gravel sand (F M C)	drab olive brown	slight petroleum moderate other:		
clay	gray black	strong		

LOCATION DATA Area Type (circle): Clam Beach			ach	Sampling Method (circle): (shove) core other Additional Notes
Sample Time	Penetration depth (cm)	Cor	nments	710cm -black clay,
1040	45			Some organic matter
SAMPLE DATA	Sediment color	Sediment or	lor	Flocm -black clay some ogninic metter Gray ul brown below organic matter low mother
cobble	brown surface	none	H₂S	low marry a
gravel	drab olive	slight	petroleum	
sand (FMC)	brown	moderate	other:	
silt	gray	strong		
clay	(black			

Project Name: LDW AOC3 Task No.: 6-14-18 DW Sampler(s): Date: R

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shove) core other
Location ID: C	LØ2-HØ	5	Additional Notes
Sample Time	Penetration depth (cm)	Comments	Uniform, grenish gray clay throughout Clam, small bits of Wood toward top ~ locm dopth
0955	45		Bray day throughout
			- clam, small bits of
SAMPLE DATA	-		wood toward top
Sediment type	Sediment color	Sediment odor	In locm dopth
cobble	brown surface	none H₂S	
gravel	drab ofive	slight petroleum	
sand (FMC)	brown	moderate other:	
silt	gray	strong	
ciay	black		

Location ID: C	L62-HO	3	Additional Notes
Sample Time	Penetration depth (cm)	Comments	To-15cm
1015	45	top laver - wood - fibers	Additional Notes Additional Notes
SAMPLE DATA			low marsture after first fum
Sediment type	Sediment color brown surface	sediment odor	
gravel sand (F M C)	drab olive brown	slight petroleum moderate other:	
silt	gray	strong	

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Project Name:	LDW AOC3	Task No.:
Date:	B/14/18	Sampler(s): () 2

LOCATION DATA	Area Type (circle): (Clam)Beach	Sampling Method (circle): shovel core) other
Location ID: CLOZ - GOI			Additional Notes
Sample Time	Penetration depth (cm)	- Comments	
1118	45		
SAMPLE DATA		1	
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none (H2S)	
gravel	drab olive	slight petroleum	
sand 🕅 C)	brown	moderate other:	
Sill	gray	strong	
Clay	black		

LOCATION DATA Area Type (circle): Beach Location ID: CL\$2-E\$1			Sampling Method (circle): shovel core other	
Sample Time	Penetration depth (cm)	Comments		
1137	45		HARD WATITE LATER @ Binches	
SAMPLE DATA Sediment type	Sediment color	Sediment odor		
cobble gravel sand(B, WC)	brown surface drab olive brown	slight H ₂ S moderate other:		
Sill	Black WHITE	strong		

7

Project Name: Date:	G/14/18	Task No.: Sampler(s):	M,NM
	Area Type (circle): Clan Beach	Additional Notes
Sample Time	Penetration depth (cm)	Comments	Brown surface t filamentous algae
1225	45cm		Ellanentous algae
SAMPLE DATA			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	scaffered shell fragments
sand (F) M C) silt clay	brown gray black	moderate other: strong	0.0.00

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LOCATION DATA Area Type (circle): Clam Beach Location ID: CLO2-CCCC CO1			Sampling Method (circle): shovel core other Additional Notes	
Sample Time	Penetration depth (cm)	Comments		
1238	45		filmentas ster at top	
		relocated to the		
		sample area Gros	mucky (Ini Com	
SAMPLE DATA				
ediment type	Sediment color	Sediment odor	throughat y	
obble - small	prown surface)	none (H ₂ S)		
ravel)	drab olive	(slight petroleum	Scattered	
and (F)M C)	brown	moderate other:	wevd	
	gray	strong	delanis	
lay	black		Shen fregmen	

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	SURFACE SEDIMIENT C	
Project Name:	LDW AOC3	Task No.: T
Date:	614/18	Sampler(s): M.Y. +R.C.

Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other Additional Notes	
Penetration depth (cm) 45	Comments	- Organic / Woodly debris - Seaveed on top of laction	
Sediment color	Sediment odor		
drab olive brown	slight petroleum moderate other:		
	depth (cm) 45 Sediment color brown surface drab olive	depth (cm) Comments 45	

LOCATION DATA Area Type (circle): Clam Beach			Sampling Method (circle): shove core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	Toum yobricks (crushed)
1025 SAMPLE DATA	45		many shell fragments mostly aray w/reddshlarar
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	· some gravel in top 25 cm
sand (F MC)	brown Gray black	moderate other: strong	

Project Name:	LDW AOC3	Task No.:
Date:	6/14/18	Sampler(s): M.Y R.C.

LOCATION DATA	Area Type (circle): Clam Beach		Sampling Method (circle): Shove core other	
Location TD: CLOR CLO2-BO2			Additional Notes	
Sample Time	Penetration depth (cm)	Comments	·washy debits	
1037	45			
SAMPLE DATA				
Sediment type	Sediment color	Sediment odor		
cobble	brown surface	none H2S		
gravel	drab olive <	slight petroleum		
sand (F M C)	brown	moderate other:		
silt	gray	strong		
clay	black			

LOCATION DATA	Area Type (circle): (Clam) Beach		Sampling Method (circle): shovel core other
Location ID: CL	22-BDZ	<u> </u>	Additional Notes
Sample Time	Penetration depth (cm)	Comments	·brick crushed through
1052	45		· brick crushed throughu Shell fragments ·scaweed on top
SAMPLE DATA			
Sediment type cobble gravel	Sediment color frown surface drab olive	Sediment odor none H ₂ S slight petroleum	
sand (F M C)	brown	moderate other:	
člay	black	strong	

Project Name:	partly ch	Task Sample	r(s): pC, KM, CW
LOCATION DATA	Area Type (circle	: Clam Beach	Sampling Method (circle): shovel core other
Location ID: CL	16-A11	0	Additional Notes
Sample Time	Penetration depth (cm)	Comments	- uniferra
1040	45	-	- Unifam throughout vegetation at surface
SAMPLE DATA		1	vegetation at
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight ' petroleum	senface
sand (F M C) silt clay	gray black	moderate other: strong	

C

LOCATION DATA	Area Type (circle	Clam Beach	Sam	npling Method (circle): shovel core other
Location ID: CL	6-A04			Additional Notes
Sample Time	Penetration depth (cm)	Comments [®]	F	velocated due to safety uniform silt throughout
1232 m	45	-		Unitorn Silt throughout
1231		1-202		Limid too deep)
		1 Alexandre		< 17
SAMPLE DATA		14		
Sediment type	Sediment color	Sediment odor		-
cobble	Grown surface	hone H ₂ S	10	
gravel	drab olive	slight petroleum	1	*
(Sand (F) M C)	brown	moderate other:		
silt	Gray	strong		
clay	black			

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Project Name: Task No.: LDW AOC3 B.C. +R.C. + K.M. 15/18 Sampler(s): Date: 101

ocation ID: CL	-16-A03	1	Additional Notes
Sample Time	Penetration depth (cm)	Comments	relocated due to
1250	45		·Uniform silt
SAMPLE DATA	Sediment color	Sediment odor	
	prown surface	hone H ₂ S	
cobble			
	drab olive	slight petroleum	
gravel		slight petroleum moderate other:	
cobble gravel sand (F M C) silt	drab olive		

LOCATION DATA	Area Type (circle	Clan Be	ach	Sampling Method (circle): shovel core other
Location ID: CL	No-ADZ	1		Additional Notes
Sample Time	Penetration depth (cm)	Cor	nments	•relocated due to
1310	45		-	deep mud .uniform silt through
SAMPLE DATA Sediment type	Sediment color	Sediment or	dor	
cobble	brown surfage	none	H₂S	
gravel	drab olive	slight	petroleum	
sand (F)M C)	brown	moderate	other:	
Sand (Avi C)				
silt	gray	strong		

Project Name:[WAOC3	Task	No.: 4 er(s): Briance. + Rachell.
LOCATION DATA	the second s): (Clam) Beach	Sampling Method (circle): Shovel core other
Location ID: CL	L-AID		Additional Notes
Sample Time	Penetration depth (cm)	Comments	·Uniform silt
1652	45		Uniform silt throughout
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	

H2S)

other:

petroleum

INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

none

slight

strong

moderate

100

brown surface

drab olive

brown

gray black

cobble

gravel

silt

clay

LOCATION DATA		Clam Beac	h	Sampling M	ethod (circle):	
Location ID: CL	16-A09		-		Additional No	ites
Sample Time	Penetration depth (cm)	Com	nents		*UTIHorm	silt through
1106	45		ALL .			
1			145-1			10 A
10			Dasi Y			2
SAMPLE DATA		T	114	n .	620	54) (14)
Sediment type	Sediment color	Sediment odo	r Alexand	1984	+- 1	
cobble	brown surface	none	H₂S	- Tanke		
gravel	drab olive	slight	petroleum	11.1.35	1 1 441 -	
Sand (FM C)	brown	moderate	other:	635	_	
STIL)	(ray)	strong	15	1 A		
clay	black	7	- Aller			

Project Name:	LDW AOC3	Task No.: 4
Date:	6/15/18	sampler(s): B.C. + R.C.

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel) core other
Location ID: CL	16-A08		Additional Notes
Sample Time	Penetration depth (cm)	Comments	uniform silt throughout
11ZD	45		
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble 🤇	brown surface	H ₂ S	
gravel	drab olive	slight petroleum	
sand (PM C)	brown	moderate other:	
Silt	Gray	strong	
clay	black		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): Sover core other
Location ID: CL			Additional Notes
Sample Time	Penetration depth (cm)	Comments	relocated due to riprop
1130	45	-	·vegetation on surface
			· uniform sitt u/some
			fine sand throughout
SAMPLE DATA			· Uniform sitt W/some fine sand throughout, gravel in top 10cm
Sediment type	Sediment color	Sediment odor	0
cobble C	brown surface	none H ₂ S	
Gravel	drab olive	slight petroleum	
sand (DM C)	brówn	moderate other:	
Silt	gray	strong	
clay	black		

Project Name:	LDW AOC3	Task No.:
Date:	6/15/18	Sampler(s): B.C. + R.C.
	AN ARABANA	

LOCATION DATA	Area Type (circle). Clam Beach	Sampling Method (circle): shovel offer other
Location ID: CL	16-206		Additional Notes
Sample Time	Penetration depth (cm)	Comments	- relocated the to safe accessibility (much too deep.
1145	45		- accessibility choose weep.
SAMPLE DATA		-	
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	Rone H ₂ S	
gravel	drab olive	slight petroleum	
sand (FM C)	brown	moderate other:	
Silt	Gray	strong	
clay	black		

LOCATION DATA	Area Type (circle): Clam Bea	ach	Sampling Method (circle): shovel Gre other
Sample Time	Penetration depth (cm)	Con	nments	
1208 SAMPLE DATA	45			- Vriform silt throughout mud too deep
Sediment type	Sediment color	Sediment od	or H ₂ S	
gravel	drab olive	slight	petroleum other:	
sand (D M C)	black	strong	outer.	

	1		
	Area Type (circle	e): Clam Beach	Sampling Method (circle): shovel (core) other Additional Notes
Sample Time	Penetration depth (cm)	Comments	Uniform sitt throughout
1326	45		Troughout -
-	-		
SAMPLE DATA			-
Sediment type	Sediment color	Sediment odor	
cobble	orown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
md () M C)	brown	moderate other:	
silt	gray	strong	
clay	black		

LOCATION DATA	Area Type (circle	Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	- relocated due to debris
1351	45		· woody debristsit
SAMPLE DATA Sediment type	Sediment color	Sediment odor	throughout
cobble gravel	drab olive brown	Image: Sight H2S slight petroleum moderate other:	
clay	gray black	strong	

Project Name: Date:

Task No.: LDW AOC3 Sampler(s): 5PC 6/15/18

LOCATION DATA Area Type (circle): Clam) Beach core other Sampling Method (circle) shovel Location ID: CLIS-BIL **Additional Notes** ate matter, olive Penetration depth (cm) Comments Sample Time 45 1345 bright brown red sediment SAMPLE DATA 25 0 Sediment odor Sediment color Sediment type none H₂S brown surface cobble gray day Grab olive slight petroleum gravel other: sand (F M C) brown tred moderate strong Gilt gray black slay

Øh;

Sampler: LR Sampling Method (circle): shovel core other Area Type (circle): Claps Beach LOCATION DATA Location ID: BP8-A68 Additional Notes drive gray sitty sunface lay-Penetration Icna Comments Sample Time depth (cm) Wet charcoal gray to block 1400 2it Silty day 10 cm SAMPLE DATA Sediment odor Sediment color Sediment type gray silty-sand brown surface none H₂S cobble drab olive slight petroleum gravel other: sand (F/M C) moderate brown gray strong silt black clay

	Area Type (circle): Clam (Beach)	Samp	ing Method (circle) shovel core other
Location ID: B	P.8-BQ	1		Additional Notes
Sample Time	Penetration depth (cm)	Comments		an olive brown silty lay
1430 Reloc. S	45 me vera	Same hole as CL15-CØ1 9, as CL15-C		dK. chasesal - block silty class. Rocks, bits of w
SAMPLE DATA	Sediment color	Sediment odor	- 3	20m
seruneur rahe	Sediment color	Sealment odor		consolidated group

LOCATION DATA Area Type (circle): (Clam) Beach			Sampling Metho	d (circle): shovel core other	
Location ID:	L15-C4	21			Additional Notes
Sample Time	Penetration depth (cm)	Co	mments		
11/30	45	Some	hole as		5000
		BP8-	- BØI		SPE BPE BD
Reloc .	luc to la	rock	L WOOD		See BPE BØ
SAMPLE DATA	10-150	n belo	is surface	e l	
Sediment type	Sediment color	Sediment of	dor		
cobble	brown surface	none	H₂S		
gravel	drab olive	slight	petroleum		
sand (FMC)	brown	moderate	other:		
silt	gray	strong			
clay	black				

Project Name:	LDW AQC3	Task No.: 4	
Date:	6-15-18	Sampler(s): LR, SPC	1

Area Type (circle): Clam Beach LOCATION DATA Sampling Method (circle): shovel core other BP8-A14 Location ID: **Additional Notes** dive green brown & Hy surface lay or Penetration 1 CM Sample Time depth (cm) Comments 1200 45 dK. gray clay w/ black & brown streaks SAMPLE DATA Sediment type Sediment color Sediment odor 30cm brown surface cobble none H₂S drab olive gravel slight petroleum glay mixed w/sand sand (F M C) brown moderate other: gray silt strong clay) black

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shove core other
Location ID: 🍘	EBPB-A19		Additional Notes
Sample Time	Penetration depth (cm)	Comments	1 Our
1230	45	دجمس	71 1
	1.34	-37-4	
	2000-000		arey day
SAMPLE DATA			grey clay entirely w/brownish red
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	w brown sh
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	(Ler
silt	gray	strong	-40 en watery day
clay	black		us wareng day

Project Name: Date:

Task No.: 4 Sampler(s): MER, SPC, L.R. LDW AOC3

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): Shovel core other
Location ID: BP	1-A13	0	Additional Notes
Sample Time	Penetration depth (cm)	Comments	I cm : green brown
10:40	45	-	
			- Gook gray clay
SAMPLE DATA			- 22 cm)
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	H2S	& brown, red clay
gravel	drab olive	slight petroleum	
sand 🕄M C)	brown	moderate other:	1 +37
silt	gray	strong	Sand
CAV	black	~	LLyson)

LOCATION DATA	Area Type (circle	Clam Beach	Sampling Method (circle) shove core other	
Sample Time	Penetration depth (cm)	Comments	2 cm Sunface has grass growing Gree olive brown sit (my	
1100	45 areas 10/ 9 W/ thick di	Arce has pattless riss / other arces	gray day	
SAMPLE DATA Sediment type cobble	Clay Sediment color brown surface	Sediment odor	gray brownish clay	
gravel sand (F M C) silt	drab olive brown gray	slight petroleum moderate other: strong	Went gray Aand	
clay	black			

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Project Name: Date:	6-15-1	Sampler	s): NM RM
	Area Type (circle P 8- A Ø7-): Clam Beach	Sampling Method (circle): shovel core other Additional Notes
Location ID: 15 Sample Time 2745 1440	Penetration depth (cm)	Comments	brown surface
SAMPLE DATA Sediment type cobble	Sediment color	Sediment odor none H ₂ S slight petroleum	dark gray sitt in this layer
Clay	brown Gray da - F black	moderate other: strong	

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other	_
Location ID:			Additional Notes	-
Sample Time	Penetration depth (cm)	Comments	$\neg \Box$	1
				/
SAMPLE DATA		De diment ester		
Sediment type	Sediment color brown surface	Sediment odor none H ₂ S		
gravel	drab olive	slight petroleum		
sand (FMC)	brown	moderate other:		
silt	gray	strong		
clay	black			

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LDW AOC3

Project Name:

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Date:

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Task No.: 4 Sampler(s): RM, NM

LOCATION DATA	Area Type (circle): Clam (Beach)	Sampling Method (circle): (shovel) core other
Location ID: BP	3-002		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Brown surface
1045	45cm	-	3~5 on grarel
			Z~5-10 cm dark gray silf
SAMPLE DATA			gray silf
Sediment type cobble gravel sand (F(M) C) silt clay	Sediment color prown surface drab olive brown gray black	Sediment odor H ₂ S slight petroleum moderate other: strong	sand (med)

LOCATION DATA	Area Type (circle	: Clam Beach	Sampling Method (circle): shove core other
Location ID: BP	8-003		Additional Notes
Sample Time	Penetration depth (cm)	Comments	& Brown Surface +
1125 SAMPLE DATA	45cm	~	Additional Notes & Brown Surface + Filamentous algae ~10 cm Silt fine sand
SAMPLE DATA Sediment type cobble gravel sand F (M)C) sitt	Sediment color brown surface drab olive brown gray black	Sediment odor none H ₂ S slight petroleum moderate other: strong	medium gray sand some clay throughout some prange

INTERTIDAL SURFACE	SEDIMENT	COLLECTION FORM
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Task No.: 4 Sampler(s): R-M, NM LDW AOC3 Project Name: Date:

LOCATION DATA	Area Type (circle)	Clam Beach	Sampling Method (circle): shove core other
Location ID: CL	15- DØI		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Brown surface
1147	45cm	-	
SAMPLE DATA			uniform gray fine
Sediment type	Sediment color	Sediment odor	(sand t silt
cobble gravel	brown surface drab olive	slight petroleum	
clay	brown gray black	moderate other: strong	

LOCATION DATA	Area Type (circle)	(Clam) Beach	Sampling Method (circle): shove) core other
Location ID: CL	15-B18	0	Additional Notes
Sample Time	Penetration depth (cm)	Comments	Brown Sorfaa
1215	45	-	fine sand +
SAMPLE DATA			_ silf
Sediment type	Sediment color	Sediment odor	
sangle (C)	drab olive brown gray	slight petroleum moderate other: štrong	} medium sond
clay	black		

Task No.: 4 Sampler(s): RM,NM LDW AOC3 Project Name: Date: '

LOCATION DATA): (Jam) Beach	Sampling Method (circle): shovel core other
Location ID:	415-BI	2	Additional Notes
Sample Time	Penetration depth (cm)	Comments	brown gurfill
12:44	45		
			- Concistant Honeyhad
SAMPLE DATA			- Honey had
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H₂S	
gravel	drab olive	slight petroleum	· ·
Sand (F) M C)	brown	moderate other:	
бали (F) м с) SIV	(gray) dur k	strong	
clay	black		

LOCATION DATA): Clam Bead	a	Sampling Method (circle): shove core other
Location ID: BP	8-A10			Additional Notes
Sample Time	Penetration depth (cm)	Comr	nents	Brown surface
1300	45	-		
		2) Uniform dark
) uniform dark gray silt/
SAMPLE DATA		1		
Sediment type	Sediment color	Sediment odo	r	
cobble	brown surface	(none)	H₂S	fire sand
gravel	drab olive	slight	petroleum	
and (FM C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

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LDWAOC3

Project Name: Date:

Task No.: 4 Sampler(s): RM, NM

LOCATION DATA	4	e): Clam Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm) 45	Comments	Brown surface
SAMPLE DATA Sediment type	Sediment color	Sediment odor	brown/gray fine stand +
cobble gravel sand () M C) Silt clay	brown surface drab olive frown gray black	KoneH2Sslightpetroleummoderateother:strong	si/+

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: CL	15-1316		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Brown surface
1238	45		
) Uniform gray
SAMPLE DATA			fine sand +
Sediment type	Sediment color	Sediment odor	
cobble 🤇	brown surface	none H ₂ S	0111
gravel	drab olive	slight petroleum	
and (FM C)	brown	moderate other:	
	gray	strong	
lay	black		3 medium sand

	Area Type (circle	,	Sampling Method (circle): provel core other
Location ID:	a second and a second as a	-BIØ	Additional Notes
Sample Time	Penetration depth (cm)	Comments	torown surface
1307	45	-	
SAMPLE DATA			dark grey Fressad fine same silf consistant
Sediment type	Sediment color	Sediment odor	magazar the same
cobble	brown surface	none H ₂ S	5.4
gravel	drab olive	slight petroleum	consistut
(M C)	brown	moderate other:	
silt	Grap dark	strong	
clay	black		
LOCATION DATA Location ID: BP Sample Time	Area Type (circle)	Comments	Sampling Method (circle): shove) core other Additional Notes & Brown Surface
LOCATION DATA Location ID: BP Sample Time 1320	Area Type (circle 8- AØG Penetration depth (cm)		Additional Notes K Brown Surface Uniform dark gray very fine
LOCATION DATA Location ID: BP Sample Time 1320 SAMPLE DATA Sediment type	Area Type (circle 8- AØG Penetration depth (cm) 45 cm Sediment color		Additional Notes K Brown Surface Uniform dark gray very fine
LOCATION DATA	Area Type (circle) 8- AØG Penetration depth (cm) 45 cm	Comments	Additional Notes K Brown Surface Uniform dark

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INTERTIDAL SURFACE SEDIMENT COLLECTION FORM Project Name: LDWAOC3 Task No.: 4

Date:

Task No.: 4 Sampler(s): 2M, NM LDW AOC3

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LOCATION DATA	Area Type (circle): Clam Bead	h	Sampling Method (circle): chovel core other
Location ID: CL	-15-BØE	3		Additional Notes
Sample Time	Penetration depth (cm)	Comn	nents	Brown surface
1335	45	-	-	
				- Uniform
SAMPLE DATA				dark gray Silt
Sediment type	Sediment color	Sediment odo	r	
cobble	brown surface	none	H₂S) 5117
gravel	drab olive	slight	petroleum	
sand (FMC)	brown	moderate	other:	
silt	gray	strong		
clay	black			

LOCATION DATA	Area Type (circle		Sampling Method (circle): shoved core other
Location ID: C	-L 15 - E	\$09	Additional Notes
Sample Time	Penetration depth (cm)	Comments	brown surface
13:41	45cm		
			- nut form
SAMPLE DATA			derke gray solt : Rine sand
Sediment type	Sediment color	Sediment odor	dere gray
cobble	brown surface	none H ₂ S	salt & Rine
gravel	drab olive	slight petroleur	
AD PM C)	brown	moderate other:	gand
silt	and dark	strong	
clay	-black		

Sample Time	Penetration		Additional Notes
MAD	depth (cm)	Comments	Brown surface
1900	45		Brown surface Uniform gray silt /fire sand
AMPLE DATA			- Cim sand
ediment type	Sediment color	Sediment odor	I THE SUITS
avel M C)	drab olive brown	slight petroleum moderate other:	
D _{ay}	gray black	strong	
OCATION DATA	Area Type (circle): Clan Beach	Sampling Method (circle): shove) core other
ocation ID: LL	-15- BA		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Cobble gravel sill the sens lighter gray silt uniform dark
2:2960	45	~	I lighter greey sitt
14291		1	uniform dark
AMPLE DATA			gray silt fire scal
ediment type	Sediment color	Sediment odor	proc Same
	brown surface	none H ₂ S	

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LDW AOC3 4 Project Name: Task No.: NM RM Sampler(s): Date:

LOCATION DATA Area Type (circle): Clarp Beach			Sampling Method (circle): shove core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	720 fine sitt
10:30	45		Zo fine sitt grazy
SAMPLE DATA	Sediment color	Sediment odor	med sand
gravel	brown surface drab olive	none H ₂ S slight petroleum) brown . grap
sand (F M C) silt	grav black	moderate other: strong	, , , , , , , , , , , , , , , , , , ,

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID:	CU15- 0	02	Additional Notes
Sample Time	Penetration depth (cm)	Comments	brown surface
10:48	45		
			consistent
SAMPLE DATA			consistent throughout
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel sand DMC)	drab olive brown	slight petroleum moderate other:	some statter woody debr
silt	Gray dark	strong	woody deb-
clay	black		

Project Name:

Date:

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LDWAOC3 4 Task No.: Sampler(s): NM, RM

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LOCATION DATA	Area Type (circle): Clam (Beach)	Sampling Method (circle): shovel) core other	
Location ID: BP8-A20			Additional Notes	
Sample Time	Penetration depth (cm)	Comments	brown surface	
12:20	45		dark quer	
SAMPLE DATA			sit sitent	
Sediment type cobble gravel cand (F M C)	Sediment color brown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other:	dark groy sint congistant thronghout	
silt	black	strong		

LOCATION DATA			Sampling Method (circle): shove core other	
Location ID: V	198- A16		Additional Notes	
ە Sample Time	Penetration depth (cm) Comments		prown surface	
12:30	45	~		
			- darle grey	
SAMPLE DATA			- dark grey Eilt + fine sand consisent throughout	
Sediment type	Sediment color	Sediment odor	consisent throughout	
gravel (and (E) M) C)	drab olive	slight petroleum moderate other:		
	gray dark	strong		
clay	black		S	

Project Name: LDW AOC3 Task No.: 5/18 Sampler(s): NW Date: Beach LOCATION DATA Area Type (circle): Clam Sampling Method (circle): shovel core other BPS A22 Location ID: Additional Notes brown surface Penetration silt Sample Time depth (cm) Comments consistent thronghout 12:00 45 -SAMPLE DATA Sediment type Sediment odor Sediment color very fine soundy debrie through out prown surface none cobble H₂S drab olive gravel slight petroleum sand (F)M C) brown moderate other: Gray dank silt strong moved due to rig man błack clay Area Type (circle): Qlam Beach LOCATION DATA Sampling Method (circle): shovel core other 15 - B19 (|Location ID: Additional Notes Penetration Sample Time depth (cm) see above Comments HS 1 12:00 SAMPLE DATA

Sediment color

brown surface

drab olive

gray dh.

brown

black

Sediment odor

H₂S

other:

petroleum

moved due to wate

none

slight

strong

moderate

Sediment type

(sand (F) M C)

cobble

gravel

silt

clay

LDW AOC3 Project Name: Task No.: 6115 18 Date: Sampler(s):

Sample Time	Penetration depth (cm)	Comments	Additional Notes
1206	45		target due to
SAMPLE DATA Sediment type	Sediment color	Sediment odor	- C.plap
cobble gravel Sant (F (M C))	brown surface drab olive brown	none H ₂ S slight petroleum moderate other:	
silt	gray	strong	

LOCATION DATA	Area Type (circle): (Clam) Beach	Sampling Method (circle): shovel core other	
Location ID: CC15-ADLe			Additional Notes	
Sample Time	Penetration depth (cm)	Comments	moved due to	
1223	45cm		+: de level	
SAMPLE DATA	Sediment color	Sediment odor		
cobble gravel sand (F) M C)	brown surface drab olive brown	slight P_2S moderate P_2S		
sill clay	gray black	strong		

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Project Name:	LDW AOC3	Task No.:	
Date:	6/15/18	Sampler(s): AV	

Location ID:	Area Type (circle		Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1300	45		moved due to Cobble
SAMPLE DATA	Sediment color	Sediment odor	
cobble gravel	brown surface (none H ₂ S slight petroleum	
	brown	moderate other:	

LOCATION DATA Area Type (circle): Clam (Beach)			Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1259	45	-	moved due to
	10		moved due to (obble
SAMPLE DATA		ļ	
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	
sand (F M C)	gray	moderate other:	

Project Name: LDW AOC3 Task No.: 4 18 JMF Date: 6 Sampler(s):

Area Type (circle): Clam Beach	Sampling Method (sircle): shovel) core other
L15-AØ	8-	Additional Notes
Penetration depth (cm)	Comments	of original location of fishing net embedded deepulin
45		of original location
		- olive to fishing net
		embedded deepufin
Sediment color	Sediment odor	hole
drab olive	slight petroleum	
brown	moderate other:	8
-	strong	
	Penetration depth (cm) 45 Sediment color brown surface drab olive	Sediment color Sediment odor brown surface none H2S drab olive slight petroleum brown moderate other: gray dark strong

LOCATION DATA	Area Type (circle): Clam) Beach	Sampling Method (circle): (shove) core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1305	45		
SAMPLE DATA			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	
sand (FMC)	brown	moderate other:	

Task No.: 4 Sampler(s): AE, JR, AV Project Name: LDW AOC3 6/15/18 Date:

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: BP	7 - RØI		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1255	45		
SAMPLE DATA		ļ	
Sediment type	Sediment color	Sediment odor	
gravel	drab olive brown	slight petroleum moderate other:	
silt (gray	strong	

Location ID: BP	7-305	and the second sec	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1305	45		
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	2
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
Clay	gray	strong	

Project Name:	LDW AOC3	Task No.:	
Date:	6-15-2018	Sampler(s): AE	

LOCATION DATA	Area Type (circle): Clam) Beach	Sampling Method (circle): shove core other
Location ID: C	L15-A01		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
100	45	-	mitam
SAMPLE DATA	Sediment color	Sediment odor	
cobble (brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sang (F)M C)	brown	moderate other:	
silt	(gray Delack	strong	

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle), shovel core other
Location ID:		/	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
SAMPLE DATA	Sediment color	Sediment odor	
Sediment type	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other	
silt		strong	
om	gray black	Aurona /	

			- 1
Project Name:	LDWAOC3		Task No.:
Date:	1115/1	8	Sampler(s): JR/AV
			12.0

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INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

LOCATION DATA	Area Type (circle): (Clam) B	each	Sampling Method (circle): shovel	core other
Location ID:	1-8-6	15-	A02	Additional Not	
Sample Time	Denetration depth (cm)	Co	omments		
10.55	45	1			
		1-33			
SAMPLE DATA				- 1	
Sediment type	Sediment color	Sediment o	dor		
cobble	brown surface	none	H₂S		
gravel	drab olive	slight	petroleum		
sand (F M C)	brown	moderate	other:		
sill	gray	strong			
clay)	black				1

LOCATION DATA	Area Type (circle		Sampling Meth	od (circle): shovel core other
Location ID:	3626	AUS BPT-F	105	Additional Notes
Sample Time	Penetration depth (cm)	Comments		т. Т
1142	45000	-		
11 1 10	- policy		3.5	1
			126	8
SAMPLE DATA	1		1 it	
Sediment type	Sediment color	Sediment odor		
cobble	brown surface	none H ₂ S	11 1	
grave	drab olive	slight petroleum		
sand (FN) (C)	(brown)	moderate other:		1
silt	gray (USI	strong	100	
clay	black			

LDW AOC3 Task No.: Project Name: Sampler(s): AE, JR, AV 6/15/18 Date:

LOCATION DATA	Area Type (circle	: Clam Beach	Sampling Method (circle): shovel core other
Location ID: BP	7- AØ2		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1115	45		
	e ²		
SAMPLE DATA			
Sediment type	brown surface	Sediment odor none H₂S	
gravel	drab olive	slight petroleum	
sand (F M C)	brown	moderate other:	1 P.
silt	gray	strong	
Clay)	(black)		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other Additional Notes
Location ID: CL	15- AØY	<u> </u>	
Sample Time	Penetration depth (cm)	Comments	
1140	45		
SAMPLE DATA			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	
sand (FMC)	brown	moderate other: strong	
Clay)	black		

LDW AOC3 Project Name: Task No.: Sampler(s): AE, JR, AV 6/15/18 Date:

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shove) core other
Location ID: RP7-AIC			Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1155	45		
SAMPLE DATA		- 0.6	
Sediment type cobble < gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	
sand (F)M C)	brown gray	moderate other:	
clay	black	11	

LOCATION DATA	Area Type (circle): Clam Beach		Sampling Method (circle): shovel core other
Location ID: BP	7- A13		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1210	45		
SAMPLE DATA			
Sediment type	Sediment color brown surface	Sediment odor	
sand (F M C)	drab olive brown	slight petroleum moderate other:	
clay	gray'	strong	

Project Name: LDW AOC3 Task No.: Sampler(s): AE, JR, AV 6/15/18 Date:

LOCATION DATA	Area Type (circle): Clam Beach		Sampling Method (circle): shovel (core) other
Location ID: RP7-A12			Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1230	45	·	
SAMPLE DATA	Deallerentereder	Sediment odor	
Sediment type cobble gravel	brown surface drab olive	none H_2S' (slight) petroleum	
sand (F)M C)	brown	moderate other:	
sīt ciaý	Gray black & d c las	strong	

LOCATION DATA	Area Type (circle): Clange Beach	Sampling Method (circle): shovel core other
Location ID:		/	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
	/		
SAMPLE DATA			- /
Sediment type	Sediment color	Sediment odor	
obble	brown surface	none H ₂ S	
Iravel	drab olive	stight petroleum	
and (FMC)	brown	moderate other:	
ilt	gray	strong	

Project Name:

LDWAOC3

Task No .: Aci3

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Date:

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Sampler(s):

LOCATION DATA	Area Type (circle)W18 - BP		Sampling Method (circle): shovel core other
Sample Time	Penetration depth (cm)	Comments	
SAMPLE DATA			
Sediment type cobble gravel sand (F M ·C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment odor H ₂ S slight petroleum moderate other: strong	

OCATION DATA Area Type (circle): Clam Beach		e): Clam Beach	Sampling Method (circle) shoved core other
Location ID: Bt	14+-A	04	Additional Notes
Sample Time	Penetration depth (cm)	Comments	DEPTH
1127	45	1.000	FINCE
			FINESAND
SAMPLE DATA			FINES Q DEPTH + SURFACE FINESAND 15-30cm
Sediment type	Sediment color	Sediment odor	
cobble gravel	brown surface	none (H ₂ S)	
and FM C)	brown	slight petroleum moderate other:	
silt	gray	strong	
clay	(black)		

 Project Name:
 LDW AOC3
 Task No.:
 ACC3

 Date:
 06.15.18
 Sampler(s):
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LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other	
Location ID: BART - AO7			Additional Notes	
Sample Time	Penetration depth (cm)	Comments	BLIL/GREYFINES	
1138	45			
			- ICOBBLE/GRAVER	
SAMPLE DATA			COURSESAND	
Sediment type	Sediment color brown surface drab olive	Sediment odor none H ₂ S şlight petroleum	COURSESAND BROWN	
sand (F MC)	brown	moderate other:		
clay	black			

LOCATION DATA Area Type (circle): Clam Beach Location ID: BP07 - AVE			Sampling Method (circle): show core othe	er
Sample Time	Penetration depth (cm)	Comments		
1148	45			
AMPLE DATA			()	
ediment type obble ravel	Sediment color prown surface drab olive	Sediment odor none H ₂ S stight petroleum		
and (F M C)	brown gray	moderate other: strong		
and (F M C)	brown	moderate other:	-	

INTERTIDAL	SURFACE SEDIMENT CO	DLLECTION FORM	
Project Name:	LDW AOC3	Task No.: AOC3 - tosh 4	
Date:	06.15.18	Sampler(s):	

INTERTIDAL SURFACE SEDIMENT COLLECTION	FORM
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LOCATION DATA Area Type (circle): Clam Beach			Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1200	45		COBBLEO
SAMPLE DATA			COBBLE Q 8 in Jepter
Sediment type	Sediment color brown surface	Sediment odor	
sand (F MC)	drab olive	slight petroleum moderate other:	
silt clay	gray black	strong	

LOCATION DATA Area Type (circle): Clam Beach			Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1217	45	NONE	
SAMPLE DATA	Sediment color	Sediment odor	
Sediment type cobble gravel	brown surface drab olive	none H ₂ S slight petroleum	
sand (FMC)	brown gray	moderate other: strong	
clay	(black)		

4 Project Name: LDW AOC3 Task No.: 18 Sampler(s): JMF Date:

LOCATION DATA	Area Type (circle): Clam (Beach)	Sampling Method (circle): shovel core other
Location ID:	P7 - AOU		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1/20	45		
SAMPLE DATA			
Sediment type cobble gravel	Sediment color brown surface drab office	Sediment odor none H₂S slight petroleum	
(sand (F M C)	brown gray day k	moderate other: strong	
Clay	black		

LOCATION DATA	Area Type (circle): Clam) Beach	Sampling Method (circle) shovel core other
Location ID:	L15-A0.		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1150	45	some rust colored	
		sand noar surface]]
SAMPLE DATA			
Sediment type cobble	Sediment color	Sediment odor	
sand (F M(C))	drab olive brown	slight petroleum moderate other:	
site trace-zome	(gray) black	strong	

Project Name:	LDW AC	DC3		Task No.:	4		
Date:	6	15	18	Sampler(s):	AE	, JMF	

Location ID: B	P+-A03	<u> </u>	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1055	45		
SAMPLE DATA	Sediment color	Sediment odor	
cobble gravel sand (F M (C))	brown surface drab olive brown	H ₂ S slight petroleum moderate other:	3.
silt	gray dank	strong	

LOCATION DATA	Area Type (circle): Clam) Beach	Sampling Method (circle): shovel) core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1110	45	thesheen on white	r
		surface trace	AT I
SAMPLE DATA		Some small wood wi	<u>+</u> \$
Sediment type	Sediment color	Sediment odor	
cobble (gravel	brown surface	slight petroleum	
sand (FMC)	brown	slight petroleum moderate other:	
silt	gray Olark	strong	
clay	black		

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Project Name:

LDW AOC3 06,15,18

Task No.: AOC 3 : 4 Sampler(s): JR

Date:

LOCATION DATA	Area Type (circle): Clam Beach)	Sampling Method (circle): hovel) core other
Location ID: BP	\$7-B0	3 0	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1257	45	-	
SAMPLE DATA			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H₂S stight petroleum	JR
sand (F) M C) silt (clay)	gray black	moderate other: strong	

LOCATION DATA	10	b): Clam Beach	Sampling Method (circle)(shovel) core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1310	45	**************************************	
SAMPLE DATA	Sediment color	Sediment odor	JR 6/15
cobble	brown surfage	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
silt	Gray	strong	
clay	black		

Project Name: LDW AOC3 Task No.: 4 Date: Data: DF JR

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LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): (shove) core other
Location ID:	15-804	0	Additional Notes /
Sample Time	Penetration depth (cm)	Comments	
1320	45		
SAMPLE DATA Sediment type	Sediment-color	Sediment odor	
cobble (gravel	brown surface drab olive	none H ₂ S slight petroleum	10/5/18
sand (F M C)	gray) black	moderate other: strong	

OCATION DATA): (am) Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1402 SAMPLE DATA	45		I NA/
Sediment type cobble gravel sand (F M C) sill	Sediment color brown surface drab olive brown gray black	Sediment odor hone H ₂ S slight petroleum moderate other: strong	JR W/15

INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

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LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other Additional Notes
Location ID: D	Penetration depth (cm)	Comments	
1405	45		IDCation moved out of water. Algae on sed surface
SAMPLE DATA			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor	
sand (F) M C)	brown gray dark	moderate other: strong	

INTERTIDAL SURFACE SEDIMENT C	OLLECTION FORM
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LOCATION DATA): Clam Beach	Sampling Method (circle): (shovel) core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	Polycharetes in top 15 cm
1470	45		
SAMPLE DATA			
Sediment type cobble gravel sand (F)M C)	Sediment color brown surface drab olive brown	Sediment odornoneH2Sslightpetroleummoderateother:	

Project Name: Date:

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LDW AOC3 Task No.: Sampler(s): AV AE

LOCATION DATA	Area Type (circle): (Clam) Beach	Sampling Method (circle): shove core other
Location ID: CL	15-303		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1320	45cm	-	
SAMPLE DATA	Sediment color	Sediment odor	
gravel sand (F M(C))	brown surface drab olive brown	none H ₂ S slight petroleum moderate other:	
silt	stray black	strong	

LOCATION DATA	Area Type (circle): (Clam) Beach		Sampling Method (circle): shovel (core) other
Location ID:	W18- CL	12-H01	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1432	45	~	
SAMPLE DATA			
Sediment type	Sediment color brown surface	Sediment odor none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FM C)	gray	moderate other: strong	
clay)	black	Strong	

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Project Name:	LDW AOC3	Task No.:	4	
Date:	6.15.2018	Sampler(s):	AV, AE	

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: CL	12-HØ3		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Rolychnietos in 15-30 cm
1440	45		
SAMPLE DATA			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor H ₂ S slight petroleum	
sand (F M C)	grav Glack	moderate other: strong	

Location ID: CL	Area Type (circle		Sampling Method (circle): shove core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1450	45		
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
gravel sand (F_M_C)	drab olive brown	stight petroleum moderate other:	
(III)	gray	strong	

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Project Name:	LDW AOC3	Task No.: 4	
Date:	le/15/18	Sampler(s):	

LOCATION DATA Area Type (circle): Clam Beach Location ID: UTZ - GOG			Additional Notes
Sample Time	Penetration depth (cm) 45	Comments	
SAMPLE DATA Sediment type	Sediment color	Sediment odor	JR
cobble gravel sand (F) M C)	brown surface drab olive brown	Image: Second state H2S slight petroleum moderate other:	6/15
sill	gray (black)	strong	

LOCATION DATA Area Type (circle): Clash Beach			Sampling Method (circle): (shove) core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1436	45		
SAMPLE DATA	Sediment color	Sediment odor	
cobble gravel	brown surface drab olive	Fight petroleum	615
sand (F M C) Silt Play	brown Gray black	moderate other: strong	

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Project Name:	LDW AOC3	Task No.:
Date:	6/15/18	Sampler(s): JR + JF

LOCATION DATA	Area Type (circle): Clary Beach	Sampling Method (circle): shove core other
Location ID: C	12 - 404	e	Additional Notes
Sample Time	Penetration depth (cm)	Comments	,
1449	45		- OR 6/15
SAMPLE DATA Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petro	leum
sand (F) (C)	brown Jr	moderate othe	
Sill	gray	strong	
clay	black		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	Some wordy debris
SAMPLE DATA Sediment type cobble	Sediment color brown surface	Sediment odor none H ₂ S	
gravel sand (F)M C) sill clay	drab olive brown gray black	slight petroleum moderate other: strong	94015

Project Name: LDW AOC3 Task No.: 00 Date: Sampler(s): M

LOCATION DATA	Area Type (circle):((Clam) Beach	Sampling Method (circle): (shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	presont prace-som
SAMPLE DATA Sediment type cobble	Sediment color	Sediment odor	
gravel sand (FMC)	drab olive brown gray	slight petroleum moderate other: strong	

L12-H9): (Clam Beach	Sampling Method (circle): shovel core other Additional Notes
Penetration depth (cm)	Comments	
45		
Sediment color	Sediment odor	
drab olive brown gray	slight petroleum moderate other: strong	
	Penetration depth (cm) 45 Sediment color brown surface drab olive brown	depth (cm) Comments US

Project Name:	LDW AOC3	Task No.:4	_
Date:	615.2018	Sampler(s): AG, AV	_

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): (shovel) core other
Location ID: CL12-HØ6			Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1455	45		
SAMPLE DATA	Sediment color	Sediment odor	
cobble gravel	brown surface drab olive	none H ₂ S slight petroleum	
sand (FMC)	brown gray	moderate other: strong	
clay	DIack		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID:			Additional Notes
Sample Time	Penetration depth (cm)	Comments	
SAMPLE DATA		/	
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

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Project Name:	LDW AOC3	Task No.:
Date:	6/16/18	Sampler(s): <u>nm, Rm, PH, SR</u>

LOCATION DATA	Area Type (circle): Clam Beac	:h	Sampling Method (circle): (shove) core other
Location ID: Cl	-\$4-A\$6			Additional Notes
Sample Time	Penetration depth (cm)	Comr	nents	Fine gravel
1349	45			Alle grane
SAMPLE DATA		l		
Sediment type	Sediment color	Sediment odo	r i	G gray silt
cobble	brown surface	none	H₂S	
graveb	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

LOCATION DATA	Area Type (circle	: Clam Beach	Sampling Method (circle): shovel core other
Location ID: $CL PS - A \phi I$			Additional Notes
Sample Time	Penetration depth (cm)	Comments	brown surface
1359	45	-	
SAMPLE DATA Sediment type	Sediment color	Sediment odor	(free sand + sitt (gray) consistent throughout
cobble gravel	brown surface drab olive	slight petroleum	consistent
sand (FM C)	brown	moderate other:	throughout
silt	gray	strong	
clay	black		

Date:	6/16/18	Task No. Sampler(s)	NM, RM, AH, SR
LOCATION DATA	Area Type (circle	e): Clam Beach	Sampling Method (circle): shove) core other
Location ID: C	L10-AØ1	1	Additional Notes
Sample Time	Penetration depth (cm)	Comments	gray surface
1207	45	relocated due to	
			line to med.
SAMPLE DATA	Deathers at a star	Continued and	five to med. brown and arange sand
Sediment type	Sediment color brown surface	Sediment odor	proversionande
gravel	drab olive	none H ₂ S	sano
sand (F M C)	browp + orang	slight petroleum	
silt	gray SU Pace	strong	
clay	black	strong	
	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
	Area Type (circle		Sampling Method (circle): shove core other Additional Notes
			Additional Notes
ocation ID: C	Penetration	2	Additional Notes
ocation ID:	Penetration depth (cm)	2	Additional Notes
Sample Time	Penetration depth (cm)	2	Additional Notes 20-20 cm brown fire to med sand is cm: layer of grave
ocation ID:	Penetration depth (cm)	2	

cand (F M C)

silt

clay

brown

gray

black

other:

sned. brown sand (40-45 cm)

moderate

strong

Project Name:	LDW AOC3	Task No.: 4				
Date:	6/16/18	Sampler(s): 🚺	m, Rr	n, AH	, SR	

LOCATION DATA	Area Type (circle): Clam Beac	h	Sampling Method (circle): shovel core other
Location ID: 1	10-193			Additional Notes
Sample Time	Penetration depth (cm)	Comm	nents	_ some woody delovis
1213	чб		_	- Some woody detoris twoughout med. brown sand
SAMPLE DATA Sediment type	Sediment color	Sediment odor	r	
cobble gravel sand (F M C)	brown surface drab olive	slight moderate	H₂S petroleum other:	
sill clay	gray black	strong	Uner.	2 40-45 an: dork gray/ught J gray fine silt and same

Sample Time	Penetration depth (cm)	Comments	Scattered woody
1216	45	moved due to substrate (too rocky)	Scattered woody debus and concre counces throughout sand top (brown)
SAMPLE DATA Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	- gravel with red fine (inder surface to 4025 mgm) 40-45 cm: black fine
sand (F)M C) silt clay	gray black red	moderate other: strong	5 sheen phroughout couble phroughout

Project Name:	LDW AOC3	Task No.:	
Date:	6/16/18	Sampler(s): NM, RM, AH, SR	

LOCATION DATA	Area Type (circle		Sampling Method (circle): shove) core other
Location ID: 🗲	Up-AP	H alp-1801	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1224	48		
		· · · · ·	- gray coarse sand
			7 sana
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (F M C	brown	moderate other:	20-110-00
silt	gray	strong	35-45 cm fore silt
clay	black		and sand

LOCATION DATA	Area Type (circle	e): Clam Be	each	Sampling Method (circle): (shovel) core other
Location ID: 🚺	L10-B02			Additional Notes
Sample Time	Penetration depth (cm)		mments	Colobles and bricks/bri
1227	45	moved di ray	ue to rip	- Colobles and bricks/bri chunks and med sand
SAMPLE DATA	Sediment color	Sediment o	dor	
cobble	brown surface	none	H₂S	
gravel	drab olive	slight	petroleum	30 cm to 45 cm : grave
and (FMC)	brown	moderate	other:	(invovanent with
silt	gray	strong		30 cm to 45 cm : gravel movement with (coave sound
		1.00		

88.8

Project Name:	LDW AOC3	Task No.:
Date:	6/16/18	Sampler(s): NM, RM, AH, SR

LOCATION DATA Area Type (circle): Clam Beach) Sampling Method (circle): (shove) core other Location ID: BP6-A09 and FD Additional Notes gravel and brick gravel and brick stronghout freet med. sand (brocon) throughout Penetration depth (cm) Sample Time Comments 1234 45 SAMPLE DATA Sediment type Sediment color Sediment odor cobble brown surface none H₂S gravel drab olive slight petroleum sand (F MC) other: brown moderate silt gray strong clay black

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shove core other
Location ID: BP	6-A\$8 (and FD	Additional Notes
Sample Time	Penetration depth (cm)	Comments	Cobble, gravel, bricks
1240	45	mored due to	- Cobble, gravel, bricks dhronghout med t coare brown sand
SAMPLE DATA Sediment type	Sediment color brown surface	Sediment odor	voite redand ovange flatures devoughout
gravel sand (F (1 C) silt	drab olive brown gray	slight petroleum moderate other: strong	Invougnout
clay	black		

\bigvee	-	DW AOC3	*. 	Task No.: Sampler(s):	Mm, RM, AH, SR
]	LOCATION DATA	Area Type (circle	: Clam Beach		Sampling Method (circle): shoved core other Additional Notes
	Sample Time	Penetration depth (cm) 45	Comments	r	- 5 cm: mm red layer
(SAMPLE DATA Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment odor none H ₂ S slight petr moderate othe strong	oleum	black coarre sand and small gravel

ž

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): (shove) core other
Location ID: B	6-404	(and FD)	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1248	45	moved due to bulkhead	med sand (brown)
SAMPLE DATA	Dedimenteder		
sand (F M C)	Sediment color brown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other:	30 cm - 45 cm gravel + black fines + woody delans
silt clay	gray black	strong	+ woody delans

Project Name	e: LDW AOC3	Tas	k No.:
Date:	6/16/18	Samp	her(s): nm, RM, AH, SR
	N DATA Area Type (cire		Sampling Method (circle): shove core other
Location I	001 011		Additional Notes
Sample	Penetration	Comments	and the set of
125	4 45	-	brown
SAMPLE	DATA		- I med. sand (0-5 cm) brown gray silt and clay and woody detors
Sediment		r Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (F M	C) browp	moderate other:	
silt	gray	strong	
clay	black	-	
	IDATA Area Type (circ D: BP6 - AØ3	ile): Clam Beach	Sampling Method (circle): shovel core other Additional Notes
	Penetration	(in the second	brown surface
Sample		Comments	0-10 cm: silt+fne
130	4 45	-	- 10 cm: silt+fne sond, brown
1.0			dark grey, compae
SAMPLE D	АТА		silt
Sediment t	sediment color		
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (F)M	C) brown	moderate other:	
Silt	gray	strong	
clay	black		L

Task No .: 1251-4 Project Name: LDW AOC3 6-16-2018 Sampler(s): NM Date:

LOCATION DATA	Area Type (circle): Clam (Beach)	Sampling Method (circle): shovel core other
Location ID:	3P6-AØ7	<u> </u>	Additional Notes
Sample Time	Penetration depth (cm)	Comments	-] O-5cm brown lorange
1310	45	relocated put of	
		water (target be	ilm Detch of while
		IOW tide fine)	- Patch of white material at a 15 cm belo Swf
SAMPLE DATA		/	B Cm belo
Sediment type	Sediment color	Sediment odor	5-45cm
cobble	Grown surface	none H ₂ S	1 dries
gravel to w	drab olive	slight petroleum	II II are gray
sand(F(M(C))	brown	moderate other:	have based
silt	gray dh.	strong	5-45cm Surf dr. gray brich Gragnents
clay	black		

		Sampling Method (circle): shovel core other Additional Notes	
Penetration depth (cm)	Comments		
		X >	
Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum		
brown gray black	moderate other: strong		
	Penetration depth (cm) Sediment color brown surface drab olive brown gray	depth (cm) Comments Image: Comment of the streng strong Image: Comment of the streng strong	

INTERTIDAL SURFACE	SEDIMENT	COLLECTION	FORM
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Project Name:	LDW AOC3	Task No.: 4	
Date:	6 16 18	Sampler(s): nm , RM , AH , SR	

LOCATION DATA	Area Type (circle): Clam (Beach)	Sampling Method (circle): shovel core other
Location ID:	P6-A91 (0	and FD)	Additional Notes
Sample Time	Penetration depth (cm)	Comments	ager of filamentous
1315	45		acque on top
		9 4	avon fre sand and
SAMPLE DATA			gray fine sand and Sitt
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	-
sand (F M C)	brown	moderate other:	
silt	gray	strong	
clay	black		

LOCATION DATA	Area Type (circle	e): Clam Beach	Sampling Method (circle): shove) core other
Location ID: BK	26-A02	(and FD)	Additional Notes
Sample Time	Penetration depth (cm)	Comments	brown surface wissome fillamen
-1321 HH	45	relocated due to micely substrate	brown surface wissome fillamen algae on surface longanic material invorghant darrigray fille sitt
SAMPLE DATA			darugray fine
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none (H ₂ S)	
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

Project Name: Date:

LDW AOC3 6/16/18

_____ Task No.: <u>4</u> Sampler(s): <u>NM, RM, AH, SR</u>

LOCATION DATA	Area Type (circle): Clan Beach		Sampling Method (circle): (shove) core other	
Location ID: C	-14-807		Additional Notes	
Sample Time	Penetration depth (cm)	Comments	gravel on surface	
1059	45		some coblobe	
SAMPLE DATA			uniformacourse sand.	
Sediment type	Sediment color	Sediment odor	> sana.	
cobble	brown surface	none H ₂ S		
gravel	drab olive	slight petroleum		
sand (F M C)	brown	moderate other:		
silt	gray	strong		
clay	black	ŝ.		

LOCATION DATA	Area Type (circle	e): Clam Beach	Sampling Method (circle): shove) core other
Location ID:	L14-BØ	8	Additional Notes
Sample Time	Penetration depth (cm)	Comments	gravel on surface
1103	45	moved due to tide-	
		to water line	
			untern mar-
SAMPLE DATA			brown medium
Sediment type	Sediment color	Sediment odor	sand
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
0.0	brown	moderate other:	
	brown gray	moderate other: strong	

Task No.: <u>Y</u> Sampler(s): <u>IVM, KM, AH, SR</u> LDW AOC3 Project Name: 6/16/18 Date:

LOCATION DATA	Area Type (circle		ch	Sampling Method (circle): shove core other
Location ID:	CLIY-BO	S		Additional Notes
Sample Time	Penetration depth (cm)		ments	Z brown M-c sand 0-10 cm
SAMPLE DATA	45	võiks (si	uto Nostrate	large gravelrwith gray med-course sand
Sediment type	Sediment color	Sediment odo	r	sand
cobble	brown surface	none	H₂S	
gravel	drab olive	slight	petroleum	
sand (F M C	brown	moderate	other:	
silt	gray	strong		
clay	black			

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shoved core other
Location ID:	L14 - BOL		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1120	45	to substract	Coarse (med.
80.1			coaree (med. sand w) gravel phroughout
SAMPLE DATA	×		7 graver
Sediment type	Sediment color	Sediment odor	throughout
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	· · · ·
sand (F M C)	browp	moderate other:	
silt	gray	strong	
clay	black	24	

Project Name:	LDW AOC3	Task No.: 4	
Date:	6/16/18	Sampler(s): NM, RM, AH, SR	

LOCATION DATA	Area Type (circle	e): Clam Beach	Sampling Method (circle): shove core other
Location ID:	L14 - B9	3	Additional Notes
Sample Time	Penetration depth (cm)	Comments	uniform mroughout
1125	45	substrate	medcoarse sand
. 0		a)	some coldoles.
SAMPLE DATA			(some coldoles.
Sediment type	Sediment color	Sediment odor	7
cobble	brown surface	none H ₂ S	sand is brown
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black	Э.	

LOCATION DATA	Area Type (circle		Sampling Method (circle): shovel core other
Location ID: 🕖	14-1302		Additional Notes
Sample Time	Penetration depth (cm)	Comments	- Inthem
1128	45) Smoughout
			- Wied - Course
SAMPLE DATA Sediment type	Sediment color	Sediment odor	med-coarse sond brown sand
cobble	brown surface	none H ₂ S	brown same
-	drab olive	slight petroleum	
gravel			
gravel	brown	moderate other:	
00			

Task No.: 4 Sampler(s): NM, RM, AH, SR LDW AOC3 Project Name: 6/16/18 Date:

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shove) core other
Location ID: 🖒	L14-BO1		Additional Notes
Sample Time	Penetration depth (cm)	Comments	70-locm
1134	45	mores due to	20-10 cm gred sand brown
			brown
SAMPLE DATA	4 1		coarse brown sand
Sediment type	Sediment color	Sediment odor	sand
cobble	brown surface	H2S	
gravel	drab olive	slight petroleum	
sand (F M C)	brown	moderate other:	
silt	gray	strong	
clay	black	X . 1	

Area Type (circle	e): Clam Beach	Sampling Method (circle): shove core other
-14-AØ1		Additional Notes
Penetration depth (cm)	Comments	3 brown coarsermed
45	moved south due to) surface
	41 - 41	grand - consistent rest of way down
Sediment color brown surface	Sediment odor	rest of way down
drab olive brown	slight petroleum moderate other:	
gray	strong	
	Penetration depth (cm) Sediment color brown surface drab olive brown gray	Image:

Project Date:

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t Name:	LDW AOC3	Task No.:	
	6/16/18	Sampler(s):	
		•	

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LOCATION DATA	Area Type (circle)	: Clam) Beach	n	Sampling Method (circle): shovel core other
Location ID: CL	14-306	0		Additional Notes
Sample Time	Penetration depth (cm)	Comm	ents	Brown surface
1110	45om			gray/brown
SAMPLE DATA Sediment type	Sediment color	Sediment odor		gray/brown coarse sand t small
gravel (sand VF M C)	drab olive	slight moderate	H₂S petroleum other:	grave)
silt clay	gray black	strong		

ocation ID:	Area Type (circle): Clam, Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
SAMPLEDATA			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	
sand (F M, C) silt clay	brown gray black	moderate other:	

Project Name:	LDW AOC3	Task No.: 4	
Date:	06/16/2018	Sampler(s): BB	BC, PC

LOCATION DATA	Area Type (circle P3-CØI): Clam (Beach)	Sampling Method (circle): (thovel) core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1142	45		
SAMPLE DATA	Sediment color	Sediment odor	
cobble gravel	brown surface drab olive	none H ₂ S slight petroleum	
sand (F M C) silt	gray dh	moderate other: strong	
clay	black		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID:	P3-BØ4		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
158 SAMPLE DATA	45		wood chips in sediment
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment odor none H ₂ S slight petroleum moderate other: strong	

Project Name: Date:

Task No.: <u>4</u> Sampler(s): <u>BCIBBIRC</u> LDW AOC3 10/16/18

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: Cl	03-405	~	Additional Notes
Sample Time	Penetration depth (cm)	Comments	- und maste
[130	45		- Wood maste layened
SAMPLE DATA	Cathanatan		- Cediment n/ darleer sitts at
Sediment type cobble gravel sand (F M) C)	brown surface drab olive	Sediment odor none H ₂ S slight petroleum moderate other:	lover
silt clay	gray black	strong	lighter sinds

Location ID: (Area Type (circle	OT.	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1140	45		wet se direr
SAMPLE DATA Sediment type cobble	Sediment color brown surface	Sediment odor none H ₂ S	
gravel sand (FM C)	drab olive brown gray	slight petroleum moderate other: strong	

Date:

Task No.: <u>4</u> Sampler(s): <u>BB, RC, BC</u> LDWAOC3 Project Name:

LOCATION DATA	Area Type (circle		4	Sampling Method (circle)(shover core other	_
Location ID:	LOS 700		-	Additional Notes	
Sample Time	Penetration depth (cm)	Comment	ts	Very rocky - large cobbies mixed with	
1217	45	Transmission		Cobbles miked with Sand	
<i>k</i> =					
SAMPLE DATA				hot fan to.	lie
Sediment type	Sediment color	Sediment odor			Ĵ
cobble)	brown surface	none H ₂ s	s		
gravel	drab olive	-	troleum	vod: to avo vodes & preven Ys cm penetra	vich
sand (F M C)	brown	moderate oth	ner:	10des. Duenen	th
silt	Gray	strong		40.4	1.
clay	black			I Is che penetra	th

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LOCATION DATA	Area Type (circle	e): Clam Beach	Sampling Method (circle): shovel core other
Location ID: B	3-BID		Additional Notes
Sample Time	Penetration depth (cm)	Comments	man d:
320	95		attempting to
			get shovel
SAMPLE DATA			
ediment type	Sediment color	Sediment odor	sa la o
obble	brown surface	none H ₂ S	Sandy and
ravel	drab olive	slight petroleum	Sillity
and (FMC)	brown	moderate other:	
	gray	strong	
lay	black		

.

Date:

Project Name: LDW AOC3 Task No.: BB, RC, KM BC 118 101 Sampler(s): 6

Location ID:	605 Al	9-5	Additional Notes
Sample Time	Penetration depth (cm)	Comments	rodey wet.
1200	45	-	, and the second
			Sandy near
	10		Surface (100 5-10c
SAMPLE DATA Sediment type	Sediment color	Sediment odor	and rocky Isolow
cobble	brown surface	none H ₂ S	bolow
	drab olive	slight petroleum	
	1		I AADING LAND
gravel	brown	moderate other:	prover e reore
gravel sand/F M C) silt	brown gray	moderate other: strong	moved i hole was filling ulinater

	Area Type (circle): Claps Beach	Sampling Method (circle) shovel core other Additional Notes
Location ID:	5 246	Charles and Charle	
Sample Time	Penetration depth (cm)	Comments	uniform gray
1215	45	(The same is a	unitorn gray
			Jandy Timeyhow
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	jav Lid is crackedi
cobble	brown surface	none Has	walked;
gravel	drab olive	slight petroleum	loop certad
and (F M C)	brown	moderate other:	burg sucreg
sill	eray	strong	(replaced lid after sampling comple
lay	black		samoling ande

LDW AOC3 Task No.: Project Name: KM BC BB Sampler(s): RC 6/16/18 Date:

LOCATION DATA	Area Type (circle	Clam Beach	Sampling Method (circle): hove core other
Location ID:	03-204		Additional Notes
Sample Time	Penetration depth (cm)	Comments	silt the sand uniform
1142	45	1	throughout
			·organic debris top
SAMPLE DATA			- 5cm
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H2S	
gravel	drab olive	stight petroleum	
sand (F)M C) (brown	moderate other:	
clay	gray black	strong	

LOCATION DATA	Area Type (circle): Clam Reach	Sampling Method (circle): shovel core other
Location ID: BA	3 Doto	BØ6	Additional Notes
Sample Time	Penetration depth (cm)	Comments	- growel to sand on Surface . uniform sitt/clay throughout
1151	45	(Surface
			Sing Sitt day
			Howshatt
SAMPLE DATA	1		1000000
Sediment type	Sediment color	Sediment odor	
cobble	(brown surface)	hone H ₂ S	
graveD	drab olive	slight petroleum	
sand (F M C)	brown	moderate other:	
sili)	gray	strong	
CIAN	black		

LDW AOC3 Project Name: Task No.: BC BB Sampler(s): RC KM Date:

	Area Type (circle): Clam Beach	Sampling Method (circle): hoven core other
Location ID: BF	3-B03		Additional Notes
Sample Time	Penetration depth (cm)	Comments	310cm sond/sitt > to organic debris
12.08	45) toganicalebrs
-			
SAMPLE DATA			Sclay/cosplet
Sediment type	Sediment color	Sediment odor	2 monvel
Cobble	brown surface	H2S	10. 1
gravel	drab olive	slight petro	leum
sand (F M CD	brown	moderate othe	throughout
Sill	gray	strong	110
retay	Diack		

LOCATION DATA	Area Type (circle): Glam Beach	Sampling Method (circle): shovel core other
Location ID: C	-03-A01		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1222	45		27 cm sand w/some
			22cm sand w/some gravel
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	(charles
eobbie	brown surface	none H ₂ S	gravel toobble Course sand
ravel	drab olive	slight petroleum	Course sand
and (F)M C)	brown	moderate other:	
silt	gray	strong	
clay	black		

Project Name: Date: LDWAOC3

Task No.: <u>4</u> Sampler(s): <u>6B, BC, RC</u>

LOCATION DATA	Area Type (circle): Clam (Beach)	Sampling Method (circle): shovel core other
Location ID: BI	3-BO9		Additional Notes
Sample Time	Penetration depth (cm)	Comments	Could not dig deep
1300	38	ALCONTRACT.	Could not dig deep change before hole filled up, and cover would not
SAMPLE DATA			cover would not penetrate because of
Sediment type cobble gravel sand (F M C) silt	Sediment color brown surface drab olive brown WigWY gray	Sediment odor none H ₂ S slight petroleum moderate other: strong	cover would nor penetrate because of coarse sand, so me could only get to 38 cm
clay	black		

LOCATION DATA	Area Type (circle): (Clam) Beach	Sampling Method (circle): shovel (core) other
Location ID: CL	03-A06	<u> </u>	Additional Notes
Sample Time	Penetration depth (cm)	Comments	[scation moved
1343	45		Slighty towards showeline from
SAMPLE DATA			to avoid rocks
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	د
sand (F)M C) (silt) (brown gray	moderate other: strong	
clay	black		

K, RC, BB 18 116 Sampling Method (circle): shove core other LOCATION DATA Area Type (circle): Clam Beach BPZ Additional Notes Location ID: Penetration Coavse sidence Sample Time Comments depth (cm) deepest layer (35 cm +) way black Fiber sand at surface Carse sand at ~ 15 - 30 cm 30 SAMPLE DATA Sediment odor Sediment_color Sediment type brown surface) none H₂S cobble drab olive) slight petroleum gravel brown moderate other: sand (F MC silt strong gray black clay

Task No.:

Sampler(s):

INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

LDW AOC3

Date:

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Project Name:

ocation ID:		1	/	Additional	otes
Sample Time	Penetration depth (cm)	Comment	ts		\searrow
<u> </u>					\frown
SAMPLE DATA	Sediment color	Sediment odor	\rightarrow		
cobble	brownsurface	none H ₂		\times	
gravel sand (FMC)	brown		etroleum her:	$\langle \rangle$	
silt	gray	strong	X		
lay	black				

Task No.: 4 Sampler(s): BB BC RC LDWAOC3 Project Name: Date:

LOCATION DATA	Area Type (circle): Clam Beach)	Sampling Method (circle): (shovel) core other
Location ID: B	23 - B#= (ST	3 208	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1048	45		
SAMPLE DATA Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (F M C)	brown	moderate other:	
silt	gray	strong	
clay	black		

V	LOCATION DATA Location ID: B	Area Type (circle P3 - DØ1): Clam (Beach)	Sampling Method (circle): shovel (core) other Additional Notes
	Sample Time	Penetration depth (cm)	Comments	10cahren moved
	1102	45		location moved upnuer and insho so we could sample Secause of high
	SAMPLE DATA			
	Sediment type cobble	Sediment color	Sediment odor	
top->	gravel sand (F) M C)	drab olive brown	slight petroleum moderate other:	
	silt	gray black	strong	

Project Name:	DWAOC3 0/16/18		KNO: 4 Hor(s): R.C. R.M. B.C. B.B.
	Area Type (circle):	Clam Beach	Sampling Method (circle): phovel core other
Location ID: BA	SVOS		Additional Notes
Sample Time	Penetration depth (cm)	Comments	relocated at of water
1104	45) organic debris throughour
			- retocated out of water organic dubris, throughou glass fragments Uniform inno course

sand

7 gray, silt five savel mix

E Constantino de la constante de la constante

other:

petroleum

200m

Sediment odor

none slight

moderate

strong

INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Sediment color

Grown surface

drab olive

Drown

gray black

Location ID: BP	3.800	BØ8	Additional Notes
Sample Time	Penetration depth (cm)	Comments	- Sand to gravel on surface Scan dark gray sand/s.
131	45		JScm dark gray sand/s.
SAMPLE DATA Sediment type	Sediment color	Sediment odor	trow sand/silt mix throughout Organic debris throughout
gravel sand (F M C)	drab olive	moderate other:	mix throughout
	Gray	strong	throuhout
clay	gray black	strong	throughout

and

SAMPLE DATA

Sediment type

sand (F M C)

cobble

gravel

silt)

clay

Project Name:	LDW AOC3	Task No.:	
Date:	4/16/18	sampler(s): RC KM BC BB	

Sampling Method (circle). shove core LOCATION DATA Beach) Area Type (circle): Clam other Location ID: BP3 - ADI P Ø **Additional Notes** exclocated due to impenetivable sediment in 20 cm deep . sand to cabble uniform throught Penetration Sample Time depth (cm) Comments UZ 1232 SAMPLE DATA Sediment color Sediment type Sediment odor cobble H2S brown surface none gravel drab olive slight petroleum sand (F M C) brown moderate other: siłt strong gray black clay

LOCATION DATA): Clam Geach	Sampling Method (circle) shovel core other
Location ID: BP	3-807		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1254	45		gravel
SAMPLE DATA	Sediment color	Sediment odor	
cobble grave	brown surface	none H ₂ S slight petroleum	fine, med., course sand
sand (F M C)	gray	moderate other: strong	
clay	black		

INTERTIDAL SURFACE SEDIMENT COLLECTION FORM

Date:

Task No.: 4 Sampler(s): PC LDWAOC3 Project Name: KM BC BB

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel sore other
Location ID:	3-803	<u> </u>	Additional Notes
Sample Time	Penetration depth (cm)	Comments	top 5cm brown -rest of sample dark
1312	45		-rest of sample dark
			- Gray
SAMPLE DATA	1		- Uniform Sandt gravel throughout relocated due to riprop
Sediment type	Sediment color	Sediment odor	3
cobble	brown surface	none H ₂ S	indiscated due to
grave	drab olive	slight petroleum	T. avan
sand (F M C)	brown	moderate other:	. 4.04
silt	Gray	strong	
clay	black		

OCATION DATA	Area Type (circle	: Clam Beach	Sampling Method (circle): shove core other
Location ID:			Additional Notes
Sample Time	Penetration depth (cm)	Comments	$\neg \Box$
<u></u>			
SAMPLE DATA		ł	
Sediment type	Sediment color brewn surface	Sediment odor none H ₂ S	
gravel ,	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

LDW AOC3 Task No.: Project Name: 6 16/1 Sampler(s): < 4 Date:

LOCATION DATA	Area Type (circle)	Clan Beach	Sampling Method (circle): shovel core other
Location ID:	CLIZ-(503	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1350	45		
SAMPLE DATA			
Sediment type cobble C gravel	Sediment color brown@urface drab olive	Sediment odor none (H2S) slight petroleum	
sand (F M C) slit clay	gray black	moderate other: strong	

OCATION DATA	Area Type (circle	: Chang Beach	Sampling Method (circle): shovel core other	-
Location ID:	/		Additional Notes	
Sample Time	Penetration depth (cm)	Comments		
< /				
SAMPLEDATA				
Sediment type	Sediment color brown surface	Sediment odor none H ₂ S		
gravel	drab olive	slight petroleum		
sand (FMC)	brown	moderate other:		
silt	gray	strong		
clay	black			

Project Name:	LDW AQC3	Task No.:	
Date:	6/110/18	Sampler(s): <u>AE</u> , AV, JR	

LOCATION DATA	Area Type (circle)	: Clam Beach	Sampling Method (circle): shove core other
Location ID: (117-GD)			Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1340	45		
SAMPLE DATA			
Sediment type cobble gravel sand (F)M C)	Sediment color brown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other:	
silt (clay)	gray	strong	

OCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID:			Additional Notes
Sample Time	Penetration depth (cm)	Comments	
SAMPLE DATA	/		
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (F M C)	brown	moderate other:	
silt	gray	strong	
SIIL			

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Project Name: Date:

LDW AOC3 6.16.18

Task No.: 4 Sampler(s): UP

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel (core) other
Location ID: C	LIZ-CIØ	*	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1235	45	Garristang	
SAMPLE DATA			NONE
Sediment type	Sediment color	Sediment odor	1 m
cobble	brown surface	none H ₂ S	10
gravel	drab olive	slight petroleum	
sand (F M C)	brown	moderate other:	
SIL	Gray	strong	
clay	black		

LOCATION DATA	Area Type (circle	: (lam) Beach	Sampling Method (circle): shovel core other
Location ID: CL	-12 - DO	61	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1246	45		
			DR
SAMPLE DATA			
Sediment type cobble	Sediment color	Sediment odor	6/16
gravel	drab olive	stight petroleu	m /
sand (F (M) (F)	brown	moderate other:	
stit	gray	strong	
clay	black		

Project Date:

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ect Name:	LDW AOC3	Task No.:	
) :	6/16/18	Sampler(s):	

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): hover core other
Location ID: CL	-12-EØI	e	Additional Notes
Sample Time	Penetration depth (cm)	Comments	- Relocated, from COBBLE/gRATEL
1315	45		- COBBLE/ gione
SAMPLE DATA	-6		Se
Sediment type	Sediment color brown surface	Sediment odor none H ₂ S	
gravel sand FM C)	drab olive	slight petroleum moderate other:	
silt clay	gray black	strong	

LOCATION DATA	Area Type (circle	b): Clam Beach	Sampling Method (circle): shovel core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
SAMPLE DATA		1	
Sediment type	Sediment color brown surface	Sediment odor none H ₂ S	
gravel sand (F M Cy	drab olive brown	slight petroleum moderate other:	
silt (gray black	strong	

Project Name:	LDW AOC3	Task No.:	
Date:	6.16.18	Sampler(s): TR	

LOCATION DATA	Area Type (circle): (Clam) Beach		Sampling Method (circle): shovel) core other
Location ID:	-12 - DOZ			Additional Notes
Sample Time	Penetration depth (cm)	Comme	nts	
1254	45			
SAMPLE DATA				or/
Sediment type	Sediment color brown surface		l₂S	
gravel Sand (F MC)	drab olive		etroleum ther:	
silt clay	gray	strong		

Location ID: C	LIZ-ED	2	Additional Notes
Sample Time	Penetration depth (cm)	Comments	- Relocated due to COBBLE + RIPRAP
1329	45	-	COBBLE + RIPRAP
SAMPLE DATA	Dediment esta-		
Sediment type	brown surface	Sediment odor	
gravel) sang(F/M(C))	brown	slight petroleum moderate other:	
silt	gray	strong	

Project Name:	LDW AOC3	Task No.:	
Date:	6/16/2018	Sampler(s): JR	

LOCATION DATA	Area Type (circle): Clam) Beach		Sampling Method (circle): (shove) core other
Location ID: Cl	12-DØ4	<u> </u>	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1301	45		
SAMPLE DATA		[
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleun	n /
sand (FMC)	brown	moderate other:	
silt	gray	strong	
clay	black		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID:			Additional Notes
Sample Time	Penetration depth (cm)	Comments	
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FMC)	brown	moderate other:	
silt	gray	strong	

6.16.18

Sampler(s):

LOCATION DATA	Area Type (circle): Clan Beach	Sampling Method (circle): shovel (core) other
Location ID: CL	12- 006	E.	Additional Notes
sample Time	Penetration depth (cm)	Comments	ALGAL MAT ON TOP
1214	45		
			LOC IN
SAMPLE DATA Sediment type cobble	Sediment color	Sediment odor	LOC IN WATER LANOVED P INTUND P COULENT COULENT COULENT COULENT
gravel	drab olive (brown	slight petroleum moderate other:	COURSE SAND
clay	gray black	strong	

Task No.: 4

LOCATION DATA			Sampling Method (circle): shove core other	
Location ID:	-17-CI	24	Additional Notes	
Sample Time	Penetration dëpth (cm)	Comments		
1226	45			
SAMPLE DATA			NUMO	
Sediment type cobble	Sediment color brown surface	Sediment odor		
silt	brown gray	slight petroleum moderate other:	4	
clay	black			

Project Name:	LDW AOC3	Task No.:
Date:	6/16/18	Sampler(s): AE, AU

Location ID: CLIZ-GØZ			Additional Notes	
Sample Time	Penetration depth (cm)	Comments		
1107	45			
SAMPLE DATA	3			
Sediment type	Sediment color brown surface	Sediment odor		
jravel	drab olive	slight petroleum		
and (FMC)	brown gray	moderate other: strong		

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: CL	2-004		Additional Notes
Sample Time	Penetration depth (cm)	Comments	
(159	45		moved due
			moved due towater
SAMPLE DATA			
Sediment type	Sediment color brown surface	Sediment odor	
gravel	drab olive	slight petroleum	
sand (FCMO)	brown	moderate other:	2
silt clay	gray black	strong	

LDW AQC3

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Project Name: Date:

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LOCATION DATA Area Type (circle): Clam Beach Sampling Method (circle): shovel (core) other Location ID: S C12.CO Additional Notes Penetration depth (cm) Comments Sample Time 2 10 L 10 SAMPLE DATA Sediment odor Sediment type Sediment color H₂S cobble brown surface none drab olive slight gravel petroleum sand (F/ M brown moderate other: silt strong gray clay black

Task No.:

Sampler(s):

1F

LOCATION DATA Area Type (circle): Clam Beach			Sampling M	Sampling Method (circle): shovel (core) other		
Location ID: Cい	Location ID: CL1Z-CØ8			Additional Notes		
Sample Time	Penetration depth (cm)	Comments		when any able to water		
ec 1225	40			to 40 cm		
¹⁰		inter a	440.4	Algue covered surface		
SAMPLE DATA				0		
Sediment type	Sediment color	Sediment odor				
cobble	brown surface	none H ₂ S				
gravel	drab olive	slight petroleum		10		
sand (F(M(C))	brown	moderate other:				
silt	gray	strong				
clay	black					

		6 Death	Sampling Method (circle): shovel (core) other
	Area Type (circle)		Additional Notes
Sample Time	Penetration depth (cm)	Comments	De Alertand with
1255	40		Only able to penetrate to 40 cm
SAMPLE DATA			penetrate to 40 cm
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	
sand (F M T) <	sbrown gray black	moderate other: strong	

LOCATION DATA	Area Type (circle)	Clain Beach	Sampling Method (circle): shove) core other		
Location ID: CL	12 096	C	Additional Notes		
Sample Time	Penetration depth (cm)	Comments			
1308	45010	1.20			
		-			
SAMPLE DATA			Je Je		
Sediment type	Sediment color	Sediment odor			
cobble	brown surface	none H ₂ S			
gravel sand (F(M))	drab olive for the draw of the	slight petroleum moderate other:			
silt	gray	strong			
clay	black				

INTERTIDAL	SURFACE SEDIMENT		
Project Name:	LDW AOC3	Task No.:	
Date:	0110118	Sampler(s):	

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LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle), shovel core other Additional Notes		
Sample Time	Penetration depth (cm) 45	Comments	moved off of Cap		
SAMPLE DATA Sediment type cobble gravel sand (F M C) silt	Sediment color brown surface drab olive brown	Sediment odor none H ₂ S slight petroleum moderate other: strong			
clay	gray black	stong			

LOCATION DATA	Area Type (circle): Clam Beach	Sampling Method (circle): shovel core other
Location ID: LC	W18-CLI	2-07-	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1218	45		
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble	brown surface	none H ₂ S	
gravel	drab olive	slight petroleum	
sand (FMC)	(brown)	moderate other:	
silt	gray	strong	
clay	black		

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		4	
roject Name:	LDW AOC3	Task No.:	
ate:	6/16/18	Sampler(s): AV	

LOCATION DATA	Area Type (circle): Clam Beach		Sampling Method (circle): shoved core other
Location ID:	DEATHS- 1	(L12-01)	Additional Notes
Sample Time	Penetration depth (cm)	Comments	
1237	45	-	
SAMPLE DATA			
Sediment type cobble gravel	Sediment color brown surface drab olive	Sediment odor none H ₂ S slight petroleum	
sand Co (D)	brown gray	moderate other:	
clay	black		

LOCATION DATA	Area Type (circle): Clam Beach こになっていみ	Sampling Method (circle) shove core other Additional Notes
Sample Time	Penetration depth (cm)	Comments	
(250	45		
SAMPLE DATA			
Sediment type	Sediment color brown surface	Sediment odor	
gravel	drab olive brown	slight petroleum moderate other:	
silt	gray	strong	

Project Name:	LDW AOC3		Task No.:	4	
Date:	6/10/	18	Sampler(s):	A	\checkmark

LOCATION DATA	Area Type (circle): Clam) Beach	Sampling Method (circle): shovel core other
Location ID: LD	W18-C	LTZ OOS	Additional Notes
Sample Time	Penetration depth (cm) 45	Comments	
SAMPLE DATA Sediment type	Sediment color	Sediment odor	
cobble gravel sand () (1) (1) (1)	brown surface drab olive brown	none H ₂ S slight petroleum moderate other:	
silt 🥵 🖓 clay	gray black	strong	

LOCATION DATA	Area Type (circle)	: (Clam) Beach	Sampling Method (circle): shovel core other
Location ID:	CL12-FG	b)	Additional Notes
Sample Time	Penetration depth (cm)	Comments	- Moved due to
1338	45		I move a due to
			Cubble
SAMPLE DATA			
Sediment type	Sediment color	Sediment odor	
cobble gravel	brown surface	slight petroleum	
sand (F M C)	brown	moderate other:	
silt	Gray	strong	
clay	black		

Project Name/Number: MOC3	/TASK 4 Weath	er. Overcast ew: BC, Kristen
Date: 6/14/	18 Cre	W: BC, Kristen
Sampling Method:	el Chand collected) Bank	ID:
Composite Sample ID:	F	
Location ID: BNK1-1	Sample Time: 0945	Sample Depth: 10 cm
Location Description (coordinates NGAN GNA OF Ke	or distances from landmarks; elevation): Magg (Sland, Vegetation l	sent.
Sample Description (i.e., including	ı grain size, color, odor):	Y
7		
Comments: all sand	, fine to med. g vegetated bank	Pain, intom
Duranhout;	regetated back	
(de la contra de	of santie	- 1 1
	or distances from landmarks; elevation);	Sample Depth:
	or distances from landmarks; elevation);	Sample Depth:
	or distances from landmarks; elevation);	Sample Depth:
Location Description (coordinates	or distances from landmarks; elevation);	Sample Depth:
Location Description (coordinates Sample Description (i.e., including	or distances from landmarks; elevation);	Sample Depth:
Location Description (coordinates Sample Description (i.e., including	or distances from landmarks; elevation);	Sample Depth:
Location Description (coordinates Sample Description (i.e., including Comments:	or distances from landmarks; elevation):	
Location Description (coordinates Sample Description (i.e., including Comments:	or distances from landmarks; elevation): grain size, color, odor): Sample Time:	Sample Depth:
Location Description (coordinates Sample Description (i.e., including Comments:	or distances from landmarks; elevation):	
Location Description (coordinates Sample Description (i.e., including Comments:	or distances from landmarks; elevation): grain size, color, odor): Sample Time: or distances from landmarks; elevation):	
Location Description (coordinates Sample Description (i.e., including Comments: Location ID:	or distances from landmarks; elevation): grain size, color, odor): Sample Time: or distances from landmarks; elevation):	
Location Description (coordinates Sample Description (i.e., including Comments: Location ID:	or distances from landmarks; elevation): grain size, color, odor): Sample Time: or distances from landmarks; elevation):	

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BANK SOIL C	Bank	10	
	0614.15	pm- Weath	W: AV, JR, AE, TD
Date:		Cre	D: BANKZ
Sampling Method:	hand collect	Bank I	D: DAMEZ
Composite Sample IC	<u>~~//k</u>		
Location ID:	-BNKZ-1	Sample Time: 1215	Sample Depth: 10 cm
		s from landmarks; elevation):	
Below OF	222 on ripra	p slope (step)	
Sample Descriptio Gray, cla Brown	n (i.e., including grain size, c 1)/grawl, C-M-F	sand, no odor	
Comments: MDKd	from target or	rip rap slope	
		-1	
Location ID:		Sample Time:	Sample Depth:
	on (coordinates or distances	Sample Time:	Sample Depth:
Location Descripti	on (coordinates or distances n (i.e., including grain size, c	s from landmarks; elevation):	Sample Depth:
Location Descripti Sample Descriptio		s from landmarks; elevation):	Sample Depth:
Location Descripti Sample Descriptio		s from landmarks; elevation):	Sample Depth:
Location Descripti Sample Descriptio Comments:		s from landmarks; elevation):	Sample Depth:
Location Descripti Sample Descriptio Comments: Location ID:	n (i.e., including grain size, c	s from landmarks; elevation): color, odor):	
Location Descripti Sample Descriptio Comments: Location ID:	n (i.e., including grain size, c	s from landmarks; elevation): color, odor): Sample Time: s from landmarks; elevation):	
Location Descripti Sample Descriptio Comments: Location ID: Location Descriptio	n (i.e., including grain size, c	s from landmarks; elevation): color, odor): Sample Time: s from landmarks; elevation):	

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BANK SOIL COLLECTION FORM

Project Name/Number: Date: Sampling Method: Composite Sample ID:	POC3 tosk G/13/18 trame1 N/A	Crev	er: <u>Partly Claudy</u> w: <u>N. Maas</u> D: <u>Bank 3-3</u>
Location ID: Bdn	- 3-3	Sample Time: 1020	Sample Depth: 10 CM
JUST North Sample Description (i Gray / brown Comments:	of overpass (.e., including grain siz n sand, v	nces from landmarks; elevation): by r(ge?) near old pil ze, color, odor): no odor revult, gravel surface, s ed on QAPP require	wrounded by cobble
Location ID: BOY	¥ 3-1	Sample Time: 1038	Sample Depth: 10cm
Sample Description (i	.e., including grain siz	ear sopport pilings (a, color, odor): 2/medium sand, sm	all gravel
back in Sample Description (i gray 1 bro	(coordinates or distan <u>Crech inlef</u> .e., including grain siz	Sample Time: 0945 aces from landmarks; elevation): along west bank re, color, odor): Course (med Sans, g 2 at Surface	Sample Depth: 10cm (1-2ft) Slightly higher elevator Than creek ravel. No odar.

BANK SOIL COLLECTION FORM

Project Name/Number:	DUWAMISH AOC	- 3 Weather:	ARTLY GOUDY, 60"
	6.13.18		J. RHEUBEN A EDGINGTO
	TROWL		BANK 4
Composite Sample ID:			
Location ID: BNK	4-1	Sample Time: 0923	Sample Depth: OCM
Location Description BデTルモモハ	n (coordinates or distances fi ARMUREDSHE	rom landmarks; elevation): 2E + BARGE, RIPR	AP + GRAVEL PRESENT
Sample Description	(i.e., including grain size, col MED SAND, SOM	or, odor): WE GRAVEL, Brown	J, NO ODOR
Comments: New	Ē		
Location ID: BNI	24-2	Sample Time: 09 30	Sample Depth: 10 CM
Location ib. D. C.		Bampie mile. 0 190	
RIPRAP	(i.e. including grain size col	EBELOW, CORREE	+ GRAVEL PRESENT
FIMIC S.A	ND, GRAVEL, FI	or, odor): LOTS OF COBBU	WIT LOLOR BELOW
	WED BIC BIG		
			19 A.
	.4-3	Sample Time: 0930	Sample Depth: 10 CM
Location Description	n (coordinates or distances fi わりんていてっていい	rom landmarks; elevation): WDFLAT, PILIア省S,	BARGES
•	(i.e., including grain size, col MCSAND, R	or, odor): JST COLCR, DARK PRE	and, NO o DOR
Comments: ROL	KS + METAL DE	BRIS A DIACENT	

BANK SOIL COLLECTION FORM

Project Name/Number:	6/12/18		crew: TD, SR, NM, KM
ampling Method:	grab N/A		ank ID: BNKS-+ KM
omposite Sample ID:	N/A		
ocation ID: BNIL	5-1	Sample Time: 1235	Sample Depth: 10 cm
ocation Description (Mar Oswar		nces from landmarks; elevation): ay Park	
Sample Description (i.e	e., including grain si	ize, color, odor): fine and i organic i	medium sand, trace fines, matter, greyich-brown, no od
Comments: (+//ec	ted field du	olicate and extra ma	terial for grain size QC
	ted field du	obiente and extra ma	Sample Depth:
ocation ID:			-
ocation ID: ocation Description (coordinates or dista	Sample Time:	-
ocation ID: ocation Description (Sample Description (i.e	coordinates or dista	Sample Time:	-
Location ID: Location Description (Sample Description (i.e	coordinates or dista	Sample Time:	-
Location ID:	coordinates or dista	Sample Time:	-

Sample Description (i.e., including grain size, color, odor):

Comments:

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	nnt soil / T	leather: 60s, Sunny
Date: 6/15/18		Crew: BC, RC, RM, NM, RM
Project Name/Number: <u>AOC3 ba</u> Date: <u>6/15/18</u> Sampling Method: <u>grab</u>	hand collected)	Bank ID:
Composite Sample ID: N/A		
BNK		
Location ID: 6-1	Sample Time: 1445	Sample Depth: 0-10 cm
	sh gruss, Joration covered	in forbs
Sample Description (i.e., including g ກຸບ ບຽບາ, brown,	soil w/ fine sand	
w Su	m vrage	
Comments: none		
Location ID: BNK-6-2	Sample Time: 1):30	Sample Depth: 10 CM
Just west of abor		
JUST West of abox Sample Description (i.e., including g	ndoned boat	lt silt, brown surface, No odor
JUST West of about Sample Description (i.e., including g Jork gray. Layer of	rain size, color, odor): Fine sand	lt silt, brown surface, No odor
JUST West of abor Sample Description (i.e., including g Lark gray. Layer of Comments: NONE	ndoned boat prain size, color, odor): Fine sand filamentaus algae on top	No odor
JUST West of abor Sample Description (i.e., including g Lark gray. Layer of Comments:	rain size, color, odor): Fine sand	It SIH, brown surface, No odor Sample Depth:
JUST West of abor Sample Description (i.e., including g Lark gray. Layer of Comments: NONE	ndoned boat prain size, color, odor): Fine sand filamentaus algae on top	No odor
JUST West of abor Sample Description (i.e., including g Lark gray. Layer of Comments: NONE	ndoned boat prain size, color, odor): Fine sand filamentous algae on top Sample Time: r distances from landmarks; elevation):	No odor
JUSH West of above Sample Description (i.e., including g Dork gray. Layer of Comments: NONE Location ID: Location Description (coordinates o	ndoned boat prain size, color, odor): Fine sand filamentous algae on top Sample Time: r distances from landmarks; elevation):	No odor

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Field Notes

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02.23.18				T.Do	08.23.18					T.Do.
0730	Anne at H	inter	Island		0853	Allemo	15.1	FOCK IN IN	us, reje	ded.
0.20	Meet up w/	·			0855	Allen	+ lo ar	16 erunt	, <1 cm	in corner
	Ed Slow	AMI	1 Dua	ield	0.0.0-	rei	erfel	an comple	1,	
	ALSO W/ RAC	hel cra	wifford (1	() intering)	0857	MAN	Ba to "	Dutfall	T107	Paul
	and Kristen	Kerns (SACE O	versight?	0902	Alens	1 31	+ cock	in mus	, rejected
0745		s and p	Gtt.	7	2903	Allenio	2 00	count	in aus	withed
	Weather cl	ear, 20)'5.			Dut	no sedin	rest ser	interel .	unsun
0750	Nealth of :	alty by	hefing.		0906	Atternot	3. Put	ty I only	n al age)	, rejected
0300	Head to Ou	+Call 8	134.		0907	Ma	ed sliph	the de	tanget.	.900
0807	Allempt 1	25'10"	FOCK in	aws, reject.	OGID	Attempt	4.7	cin se	taside	Gar
0810	Attempt 2,	reneutal	, washe	dout, Ban		poter	ctial Ke	Pina		100
0814	Attempi3,	rejected	wush	dout 13rm	0930				z cm se	liment
	More of tan	pt 1		, .			ely), re	17. IT.		
0010	Allempt 4,	ejected,	unshed or	+3cm.	0933	Atemp	+6,110	im sli	ghtty a	ner
	Attempt 5,					50.A.	from	outfull.	, 5.5A	deph
0824	Attempt 6,	rejected,	only roc	KS.					about u	
0830	Move on to	ovtfall	me			to Kee	n- Deci	and bu	fer qua	the
0845	Attempt 1 rejected.	7'7", 101	Kinjaws	wusheloot		simpl	e is th	e last	grab ()	-10 cm
	rejected.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Terth	stipa	from	50ft.	distance
0847	Attempt 2,	1 vock,	rejected			from t	rifull	VS. 7	cm fro	m
0849	Alfend 3	ON in il	uns rent	ted					m gitt	
	Mand slightl	n of ta	wart.							WK-FD
0951	Attemp 4, 1	ocks in Jai	us, some	Sidimit		also o	ollected		and Sheel.	
	washed out, <	. Ban, r	ejected.		1015				UP yu	is for
÷ .			M					,		in the Rain .)

02.23.17 02.23.17 T.DO. TDO Attempt 5 Talked to Kristen Porewater Deatons. 1245 1040 Est javes from Amara Head about Keeping sample from to 1'st die ramp to pick op more air for prevenistic sampler and fiel 4th grab (taken about 50 ft from ourfall) instead of trying for boat. Z more times, she agreed ble Head to location 179 for pulsus 1135 we got >10 cm, and it was sidiment. close enough to target values. Grab allempt 1, 24 10, over-penetrated 1141-305 Head to Tocation 189 (PWISMS sediment) rejected. 1144 Altempt Z, over penetrated, rejected. 315 Attempt 1, 82, 15 cm on one half 1148 Attempt 3, Zulan, accepted. not enough vol so will reject and Also collected extra VOL for try again. Attempt. Z, 13 cm same as previous lab grain size QC. 1318 1208 Head to location 183 rejected. 1212 Not accessible b/c of barges 1320 Attempt 3, rock in jaws, rejected. 1324 Attempt 4, 12 cm, same as before 1215 Outfall zitt also not accessible ble of barges. rejected. 1220 Head to Outfall ST' Ave S. 1328 Attempt 5, Zycon, accepted. 1232 Attempt 1, 6ft, 3cm, rejected. 1340 Head to Outfall 2109 1233 Attempt 2, 6 cm, rejected. 355 location 2 on land, called 1235 Attempt 3, 6 cm, Washed out, rejected Suice to ask about moving location. Move slightly off target. OK to do so as long as w/in 1403 Attempt 1, 5'9", 15 cm, [2109-1] accuptory, Retentickain, 1239 Adempt 4, 16 cm, on one sile, will keep to see if better grabs.

T.D 02.23.17 02.28.10 TDD 1426 At 2109-2 (relocated to in-woder) Arrive at Harbor Island Manua. 0700 1427 Evab attempt 1, 4, 15cm, accepted K. Mc Peek, T Do (WW) 1445 Head to 2003 outfall Meet up up Gravity: E. Sleen, P. Jenkins 1502 Anne at 2003, not accessible during OTIO N. Maas & J. Phenien anives, load iower Fide. supplies. 1505 Head to Location 169 (pw/sms) 075 Rachel Cranford annes (Cleaning). 1510 Attempt 1, 21, rocks in jaws, rejected 0730 Remy Mathonnet & Cleanneys) 1515 Allempt Z, 18., accepted. and Nate Malmbary (DPA-USATE) 1530 Head back to marina. annes. RSS (Enic Rober) amis. 1545 Anive at manine. Offload Weather: overeast, 40's. supplies/samples. and of on-water Kate, Jenna, Remy, Nate, and day. BRIC & Andrew will continue composite sediment sampling. Ninn, Rachel, That, Ed & Pete will resume outfail & pw scrupting. 23.13 0740 Health and Safety briefing; head up over to collect samplis 0815 Anvive at location 187 (SMS) - PN 04029 Altempt 1, 22.3 ft, 23 cm, allept. Colletted fre & duplicate UDW18-55-187-FD also. OGID Head to Location 188 - PW Rite in the Kain

0223.18 120 02.28.18 a-0915 Attempt 1, 17.7. Pt, 23cm, accept. from 50-100 ft from outfall. 09725 Head to Evifan Ditca #2 (Target coordinates under 0935 Target location on land (in blackberry manna dock. bush and rip rap). Relocated in 1101 Attempt 1, 5.8 A., 14 cm, accepted field to win 50 ft of outfall about 90 A. for outfail (2100 A-2) coordinates. Head to Outfair 2101 1115 0941 Attempt 1, 8.5. ft. roces in jaws, reject. Allempt 1, 6. 4. A., rocks, vejected. 1121 0944 Allemot 2, 21cm, accept, 15m from Allempt Z, ZOCM, accept. 1123 outfall lingue to get closer 1135 Head to South Park Manua to b/c of vip rap shore line). pick up more jars from Amara 0955 Head to Outfall DUNSD#3 and take Which bathroom break. Target on oprapland. Relocate w/in SDft. 1145 Head to Location 186 (Pw)(SUS) 1009 Astempt1, 0.5 ft. 3 cm, reject. 1209 Allempt 1, 9:7.5t, 16 cm, accept. 10/1 Attempt Z, Ocm, reject 1223 Head to Location 185 - Pw 1015 Attempt3, collect by hand at Shouline 1227 Attempt 1, 10.6 ft., 18cm, accept. Oft depth, 10cm. accept 1242 Head to Outfail 2215 1025 Head to Orthau Delta Marine Riprap bank, moved off - 40ft from artfail Access blocked by Yacht's dock lines. 1252 Allempt 1, 49 A., 10 cm, but 1030 Head to 2100.A washed out from rocks in jans, reject. 1037 Attempt 1, 7.6 ft, empty/rock, reject. 1254 Allempt 2, 10 cm, but only gravel reject 1038 Allempt 2, empty proce. reject. 1258 Allenp 3, roces, reject. 1039 Attempt 3 16 cm, accept, 41Ft from outfall. (2100mA-1) 1259 Move slightly downstream to alterrate aven 1055 Second sample will be collected 1300 Attempt. 4, rocks, reject Rite in the Rain

10							1				
02.28.15					TAD	02.28.18					11
1301	Allempt	5, roci	is, wash	ed out r	eject.		access	Will	octur	to 15	The-
1303	Allempt	6, rock	5, washe	dout, 1	eject.		another	- date			La
1305	Stator	n abo	wheel in	+1 fux	her	- 134	Dutfail				>
	notice	Head	to Dut	fail Ch	en Scapes B					- up kin	
	near =	>11p4			~			can't	get upi	. SOFA.	of artfail.
1323	Attempt	1,9.9	ft, 160	in, all	ept				matte.		d and a
1332	Head to	o loca	ition (8	i3 and Q	21.fall 2114		2507			auess, er	ciept
1340	Aver bl	o cked	by nul	tiple ba	vegs			6PS r	udings	in well	wate
	and the	j boat	s, Davro	n pass	ageway			inde	- (STA	re-brie	dge.
	along 6	ante	Slocked	by doc	Klines.		2510	NOt a	cessill.	can't	get
12110	Alota	f cran	e activ	ity area	-head.			prist k	onidge.		
1261	Head to	WHE	all Daw	in touds			outfails	Glacie	r NW-G	BP and	X
11105	Attempt	1, 16.	O FT I	7 cm. a	icepst.			GenBi	odiesei	in sli	02
1405	Head to	locas	ion 180	2- PW			-	curren	stly m	slocked	
1410	Attempt	1000	5.4.1	4.5 cm	allest.		Reoccupy	PW loc	ation 1	78-no	issue
1427	Head to	1 17	-Charles		· · · ·		KLOUUPY	PW 100	whiter 1	77-00	issue
1442	Attempt Head to	leco	5-PT - , 2	+an,al	cept		Reverpy	RU loc	ation 1	Heno	issue
14476	Atkunpt 1	. 75	ri Tu	- PW	- 4		Redeupy	AU De	which]	75- no	issue
1448 4	Alternat	2 50	T-1 ice	n, rga	x.		Ketacup,	PW loc	action [74-no i	ssue, tide
1450 A	Attempt	z βc	n, vercer	a main	Querdal		Recoupy	PWID	cation 1	-13 - n0 1	ssile
	Hempt :	, oc	en, coor-	2 gmm	c, washad		Reocup	PW 10	cartion	72- no	issue
14527	Deput .	tore	ETTA (D)	+fail	k.		Rever	phu le	Ciction	171-10	issue
ir.	reoccopy	Dane	water	station	Sfor	K	Leveup	2002	cation	170-no	Issue
	11	- P0-0			100		otfails	10054	nd ted	Ctr D-V	tide)
										Riteir	the Rain .

02.28.18 03.01.18 TDO 1530 Head back to marine. Anive at Harbor Island Marina 17710 1540 Anne atmanina. Offload supplies/ K. Mc Peck, N. Maas, J. Rheuben, samples; work on COG. TDO. (Wind ward) 1600 Depart mariner, End of on-wader pantly dordy, 40's. field day. 0715 Mict of Goardity (E. Stant P. Jenkins) and Cleanuarys (R. Crawford). Load supplies and prep. Jake Williams (USEDA DErsight, 0730 TELEDA.USACE) amines 0740 Health & Safety briefing, depart manua, head down to resme adempts and location 182 0800 Arme at Location 182 - PW Atempt 4, 5.6 ft, 7 cm, stoped, reject 0801 Attempt 5, 21 cm, accept, -10ft. of. 0803 0820 Head to location 178 (SMS)-PW 0830 Attempt 1, 31,8ft, overperentate, reject. 0834 Attempt 2, g cm, reject 0839 Attempt 3,22an, accepted Collected field deplocate LDW18-55-178-FD, because sample (and field dup) For bocation Rite in the Rain

14 01.	18 7	03,01.1	x 15
	ibt may be discarded, and		for which / bathooon lovent.
	re-locatul)	145	At manua.
0853	Head to Location 176 notic Location 50 is free of barge.	ed 1210	Depart marine Head to location 172-PW
	will collect it first.		Astempt 1, 7.4 A, 19 cur, accept
0400	At Location SD	7.30	Head to location 23, target
0904	At Weation 176-PW	pt	anovently right up against end of
09116	At Weation 176-PW		barge, Can get as close as 2m
0405	Atempt 1. 41. 5 Gt 13 cm allert		w/ target.
0940	Head to Location 175-PW	1243	Astempt 1, 24 A., 15 cm, accept
0451	Attempt 1, 41. Oft. 22 cm, accept	- 1305	Head to Location 170 (Sus)-PN
10 35	At Location 173 - PW	1310	Attempt 1, 15.4ft, 19cm, alleft.
1028	Attempt 1, 35.6 ft., 24.5 cm, a	ceept. 1325	Head to Location 174 (SMS)-AN
1043	Head to Location 171-PW	1332	Attempt 1, 2.0 ft, 3cm, reject.
1048	Attempt, 40,5.9, 18cm, all	ept 1334	Atempt 2, 11.5 cm, accept.
105	At Watton 010	1410	Head to WHEali 2507
110.4	Attempt 1, 13.9. ft, ben, refee	+ 1419	Attempt 1, 6, 8 f., 23 cm, allest
1110	Hornot L. I Cun, reject	1428	Discussion w/ Jake (USACE) about
1114	Attempt 3, 14 cm, washed out ig	cq	Outfail 2510. Unusle to access
	rolls in pus, reject., coarse mater	kil	Deation b/c of road/bridge. Cannot
1120	Move slightly off tanget ~ 4m, 17	•	get under in ressel to get whin
1122	Attempt 4, asphalt in jaws, washed o	ut, Vereet.	50fl. of target /ortfail coord.
1102	Attempt 5, 15 cm, accept, 1723.	ft.	Startion abandoned.
1140	Head to Aarbar (sland starin	er 1430	Checking Outfail 2509 to confirm
		×	Rete in the Rain .

16							1	i n	
03.01-	18		T.D	03.02.18	3				T.DO
	that we can	get w/ 50.ft. 0	F	0700		at Hart	orlsian		
	outfall /tong	at coord. Close	stwe		30'5 (ordy	or cours		<i>n</i> .
	could get is	~ 80.A. right	at		Windy to	l' Kati	Mc Pa	e an	a
	shoveline / or	tfall chennel i	ntersection.		to (Think	Jean	vi Rheer	bonst	2
	Jake uso ob	sirved site cond	itians			Nin	n Maas	100	
	and agreed it	re couldn't get a	lost enorgh.				Do.	Sca	yuse
1445	Head to DUTE	all fed Otts.			Guarte		Joan		
1456	Attempt 1, 13,2	ft. 8.5 cen, wash	ed out,		charing	Pata	To k	30	ayusi
	rejected	1.	,		Class.	(eu P	Jenkin	Hlennet	-RS
1459	CONTRACT CONTRACTOR	cm, rock in jaws	withed		Canoto	uys. re	my Ma	HUMACI	
	everythin	yout, reject.		naih	local	(and)	ichel Cor	upor	Cayuse
1501	Attempt 3, rou	ck in jaw, empty	rencited	070	load g	opplies	Jegpi .	¥'1-	
1503	Move to alte	over + avact,	,	0 + 10	RSS A	WIVES :	Encra	ner	
1504	Askingt 4,16.80	I. rock in jow, r	erect.	A730	V .t.	K.	Andres		
1506	Atempt 5. 11.	5 cm, juws again	xfrom	0170	Male	lems	COSAG	E TAI	wersight)
	rock but will	Keep pending e	The move				- Ca		
	autempt for k	pester quality sa	mete.	0775	Debral	Diuist	- Wity	- KS	
	(~4) Q. from	n ortfall coord		25	Depart	man	na lau	usc) +	
1516	Allemot lo. NL	10 A from woord,	ul cina		Health	and y	after	metr	g. Head
	accept. Will	discound Asking	+ 5	~	to colle	a sam	sles at c	slacies	
1530	Head back to	manna	· · · ·	97427	propert	175.	2 24	\	
1540	Arrive at man	ina. Offloud sa	under	UFFF	At loca	ution 1	TT FW		
	where on cols.	Vince. Off	in proj -	0744	Attemp	+ 1, 12.	761.20	cm, ac	rept
1600	Depart marine	. End of on-wate	to day.	000	AT 100	ation u	2.+6		
		100-		VOUL	Attemp	TT 1, 19.	3-17,24	tcm, ac	cept.
-	03	01.18						Riter	the Rain .

18 03.02.14	, I I I I I I I I I I I I I I I I I I I	5 Dr	03.02.18	19
0815	At Outfail Glacier NW-C	TDD	09.32	Attempt A, empty, reject.
0826	Atlempt 1, 20.4. ft., 25.5.		0934	Aden a E cock in and sent
004	accept	cm,	0935	Attempt 5, rock in jaws, reject.
0840		und and		Alleapt 6, rock in jacos, reject. Outfall abandoned after the 4
0.0	barry. Cannot get w/i			additional attempts,
	of coordinates, Stipping	auntil	0950	At Location 041- must hand collect.
	we get alternate rand	onized		Location on sand bar (7 satellitis)
	coundinates.			BPS. Lood -122, 34834 47, 55864
0845	At Location BL	c	OUS	Collect sample to 10 cm depth.
0844	Allempt 1, 24.8.A., 20an	accept.	1005	At artfall 2003
0903	At location B2 laterna	te location)	1010	Adempt 1, lasft, empty, reject.
0906	Attempt 1, 24.99. Bun,	unished out		Havget is upland, so moved to
	reject for beter qua			in water, below outfall, ~ 40.A
0910	Attempt 2, 17 cm, allept			-from outfall, Krisen agreed.
0922	At Dutfail GenBiodiesel	· · · · · · · · · · · · · · · · · · ·	1012	Allempt Z, empty, reject.
0424	Attempt 1, 8.0.A., rock in]	aus, reject.	1013	Attempt 3, rock in jaws, riject,
0927	Attempt 2, empty, reject			~50 ft. from outfail
	Instead of 3rd attempt at.	target	1014	Attempt 4, rock in jaws, reject.
	coordinates - (nprap), w		1015	Attempt 5, rock in jaws, reject.
	moving to location with		1019	Alternat b, which a out gravel, reject
	radius of ortfall coordina			Outfail 2003 abandond.
	(busulted w/ Knisten Kems	, she	1030	Got okay forom EPA (via Susie)
	agreed.			to collect alternate locations
0431	Atempt 3, 15.4 ft, rock,	reject.		at 183, 197 and outfall 2509
	27			Rite in the Rain.

20	10		-	12 17 10		21
	.18		TIDO	03.02.18		1.20
1010	Head opmen	to theighto s	ce if		inaccessible, barges in likey.	
-	Delta Mann	es OF is acce	SSIAC		(at alt. 2)	
	duising lowe	r tide than	other	1316	Attempt 1, 26.3 ft., 16 cm,	accept
		>		1333	Head to Location 060	-
1110	Unable to ge	t indere dock	lines.	1336	Adempt 1, 37,9.A., 28.5 cm, accel	pt
	Kristen agree	s-too low.		13.50	Head to location 059	
-1115	Head to toca	tion 187 (new	2	1352	Allempt 1, 38.94, 12 cm, acce	pt
	target) to re	sample - PW	(SMS)	1405	Head to location 062 (at)	20-
1124	Attempt 1, 4:	2 ft, 9 cm, re	rect.	140	Adempt 1, 37.9 ft, 29 cm, au	cept
		in, land weshed			(original location, barge moved)	
1129	Allemot 3, 28	in, wished out,	reject.	1424.	Head to Location 013	
1131	Attempt 4.11	cm, accept.	1		Attempt 1, 25. 1 ft, 14 an, ac	iest
1150	Linch break	at S. Park Man	hin .		Head to outfail 2509. Will	
120	Head to to	aton 183 (SM	SPW		collect the best sample we a	
		9.2.ft., 20cm,			get as close to attail/tavge	
1230	Head to new	2509 locator	outfall		coordinates as possible, per	-
		n still maccessi			conversation if susie.	
		ess within 50.	D .	1450	At aufai 2509 - 22 A fr	om
		sit's too far '	• • • • • • • • • • • • • • • • • • •		target coard.	
1250	Head to Low	timplez.		1453	Allengt 1, 3.4.A., Bcm, reje	cot.
		2 indereath !	sarge.	1455	Allemost Z, 11 cin but washed at,	
	Head to Loca		J	1457	Allemp 3, rock in jours, reject.	
		o. t. ft. Bem, a	cect	1500	Attempt 4, 10 cm, will set asid	le
1300	Head to los	attor 49 (alt	1) location	1507	Allempt 5. Fem. reject (fault	ner
),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Attempt 5, Fem, reject (farth	asus
24					hile in.	the Main.

2203.08.18 TDO 03.02.10 1509 Attempt 6, 13 cm, accept ~ 2894. af 0800 Avrile at 1st All S. ramp 520 Head down iver to location 52 (Sug S. Replinger, T. Du. 1532 Attempt 1, 20.7 ft, 27 cm, accept Meet up up Gravity. (alternate vandom location) E. Sloan, G. Buillic 545 Head back to manina. Weather, 40's, light vara: 1555 Annue at mannie. affload supplies, 0805 Head up to Location 139 to samples; workon cocs re-sample. Health & Safety 1645 Depart marrie Ed of on-water lonefry. 0840 At Location 1351 dai Atempt 1, 12t, D A, 29cm, accept. 0046 Head up to Delta Manne Offall 0858 to see if we can access 0405 At Delta Manue outfail 0907 Allempt 1, 11.2ft., 29.5 cm, alapt Head to artfall Zuit. 0920 Site still blocked . Sampling 0425 complete. Head buck to bast varip. End of sed. sampling Amile boat varip. 0945 03.08-18 Rite in the Rain

K. Meleck 2/22/18 2/22/18 AOC3 Surface Sediment Sampling Pay 1 0730 Arrive Harbor Island Maring Crew: Thai Do Windward Kate McPaele Remi Mathomet-Clearways Eric Parker Research Support Andrew Muth Services Knisten Kerns - USACE Weather : 30°F, sunny 0745 Load boat and prep for sampling 0800 Health and safety briefing : boat safety, Sediment exposure High : 0900 11.5' Tides : Low: 1552 1.3' 0820 Decon sampler and equipment Deport Harbor Island Marina tor 55-01 0830 Collect grob 1 @ SSODI; washfout -0840 unsuccessful ; water deptn : 41.5 0845 Collect grab 2 @ SS-OTT Washed-out and cobbles in jaws; water Septh: 41.5ft 0849 Collect grab 3 @ SSOOI; wished-out and cobbles in jaws ; water depts: 39.4' 0858 Move within 10m and collect grab 4, @ 55001 deptn: 44.4'; Nek in jaws

. Mycek 2/22/18 0901 collect grab 5@ 55001, depth: 45.41. Washed-out 0905 collect grab 6 @ 55001, depta: 44.3' successful, penetration depth: 16 cm collect grab 1 @ SSO2, deptn: 26.6' 0921 successful, pinetration depth: 23cm 0937 Arrive SS-003, location under sailboat mared ~ 20 ft from target Water depth: 31.7ft . 0939 Collect SS-003 grab 1, depth: 31.7ft penebration depta: 20 cm, Successful collect SS-004 grab 1, water depta: 43.3ft 095Z ponetration depth : 25cm , Successful Collect SS-008 grab 1, water depth: SI. 1ft 1005 unsuccessful: rock in Jaws collect SS-008 grab 2, water depta: SI.Ift 1009 Unsuccessful: washed out collect SS-008 grab 3, water depth : So. 8 ft 1012 Unsuccessful : washed out 1023 move within 10 m and collect grab 40 SS-008, water depth: 53.2Ft Unsuccessful: washed out Rete in the Rain .

17	K. Mepsek	
4	2/22/18	K. M420× 2/22/18 5
1029	collect 55-008 grab 5, water depth: 50ft	1220 Depart Marino for SS-032
	successful, penetrotion depth: 16 cm	1230 collect SS-082 grab 1, water depta: 17.184
1043	collect 55-007 grab 1, water depta: 49.7ft	Successful as a la trade , 29
	successful, penetration depta: 26 cm	1240 collect 55-033 arel 1 water deate: 429 CM
1056	collect SS-006 grab 1, water depth: 46.7ft	Just and April 12.114
	successful, penetration depth: 26 cm	Successful, penetration depth: 17 cm 1250 collect SS-034 grab 1, water depth: 32.9ft
1108	check access @ SS-016 : OK	Successful Denetration days: 22 c
	check access @ SS-017: obstructed by barge	Successful, penetration depth: 22 cm 1258 collect SS-035, grab 1, water depth: 37.2ft
1///	call S. Migrody to discuss barge @	successful, penetration depth: 25 cm
	55-019 . she will contact General	1308 collect SS-036 grab 1, water depth : 31.1ft
	Recycling, and decided to more to	
	composite 5 locations for next	pener copia. Et cm
	round of Sampling	and the state of the state
1116	collect SS-025 water depth: 26.4 ft	and any account factored Island
	successful, penetration depth: 25 cm	1335 Collect SS-038 grab 1. water death: (2'-
1125	collect SS-026 grab 1, water depta: 40.3 ft	
H29 KM	unsuccessful; insufficient penetration	1342 collect SS-042 areb 1 water deates: 18:554
1129	collect SS-026 grab Z, water depth: 40.3ft	
	Unsuccessful; winnowed	Collected -18ft from target-barge
1132	collect SS-026, grab 3, weber depth: 40.3ft	17 Way
	successful, penetration depth: 15 cm	1351 collect SS043 arek 1 unter depth: 26 cm
1144	collect SS-027, grab 1, water depth : 42.8ft	12 9.481, white ogta. 201311
	successful, penetration depth: 23 cm	1400 checked SS-052: not accessible due to
1/55	return to Heibur Island Morina For lunch	
7	break	barges; could sample ~16 m south of target
		Rite in the Rain.

6	K. M. 42ek 2/22/18	2/23/18 AOC3 surface sediment sampling 2/23/18
1402	called S. M'Grady; decision to hold off on	Day Z
	Sampling SS-052 until record approved	0720 Arrive Heiber Island Merina, meat CRW
	to sample accessible area nearby	Crew: Jenna Rheuben Windward
1410	collect SS-051 grab 1, water depth: 12.8 ft	Kate McPock
	successful, penetration depta: 30 cm	Remi Mathonnett - Clearways
1427	collect 55-064 grab 1, water depth: 35.0ft	Gric Parker & Research Support
	unsuccessful; washed out	Androw Moth / Services
1431	collect SS-064 grab Z, water depth: 35.0ft	Weather: 28°F, partly sunny
	successful, penetration depta: 21 cm	Tides: High: 0946 11.2'
1441	collect 55-069 grab 1, water depth: 32.0ft	low: 16 53 0.7'
	Successful, penetration depta: 30 cm	
	collected field duplicate : SS-069 FD	0740 Load boat
1500	checked SS-070: not accessible due to	0800 health + selety bricking
1500-KM	barges; could sample - 34.5 m west of	0810 deport Harbor Island Marina, decon
	target, did not sample	Sempling ogvipment
1502	sent S. McGrody text message re: 55-070.	0821 collect SS-038 grab 1, water depth: 8.2ft
1510	return to Herber Island Marina, unload	successful, penetration depta: 25 cm
1525	off-water	0854 collect SS-065 grab 1, weter deptn: 34.4ft
		successful, penetration depth: 26 cm
	Km 3/22/18	0905 check access to 55-066: barge blocking
	2/22	torget - 28.3 m off location;
		E. Parker contacted barge - will depart
		later today; try sampling next weak
		0920 collect SS-067 grap 1. water dente: 41 951
		0920 collect SS-067 grab 1, water depth: 40.9ft successful, perutration depth: 23 cm

8	K. McPeck 2/23/18	K. Me Peck 2/23/18 9
0936	collect 55-068 grab 1, water depth: 32.5 ft	1208 collect SS-115 grab 1, Water depth: 23.6ft
-	Successful penetration depth: 26 cm	SUCCESSFUL and the land 177
0956	collect 55-106 grab 1, water depth: 26.6 ft	1215 check access @ 55-116, blocked by barge -
	successful, penetration depth: 24 cm	~ 30 m off target
1010	check access @ SS-107 : barge blocking-	notified S. MeGrody, will wait to sample
	"7 m from torget	1223 Collect 55-117 grab 1, water depth: 5.9ft
	called S. McCroody to confirm OK to sample	Unsuccessful - Washed out, cobbles in jaw
1018	collect 55-107 grab 1, water depth : 14.5ft	1226 collect 55-117 grab 2, water deptm: 5.9ft
	successful, peretration depta: 25 cm	Unsurged I - unchada the little in the
1028	head to South Part Marina for bathroom break	Unsuccessful - westedout, cobbles in jaw 1228 collect SS-117 act 3 when last : 59.01
1054	collect 55-108 grab 1, water deptn: 25.8ft	The state of the s
	Successful, penetration depth: 29 cm	Unsuccessful - washed out, cobbles in jaw
1104	collect SS-105, grab 1, water depth: 27.9ft	target location heavily cobbled, moved
	successful, peretration depth: 22 cm	(232 collect SS-117 grab 4, water death: 11 SCL
1114	collect 55-110, grabl, water depth: 12.1ft	1232 Collect SS-117 grab 4, water depta: 12.5ft Successful, penetration depta: 20 cm
	Successful, penetration depth: 29cm	1245 Junch break
1120	collect SS-111, grab 1, water Jepth: 9.3Ft	
	Successful, penetration depth: 27 cm	, why depth . 13.5 TT
1128	collect SS-112 grab 1, water dopta: 11.94	. 1321 collect SS-119 scale 1 histor depth: 22 cm
	successful, penetration depth: 23cm	, or office off
1139	collect SS-114 grab 1, water depth: 15.4ft	1327 Collect SS-120 grab 1, water depth: 5.9ft
	Successful, penetrotion depth: 26 cm	Successful perpetation to an in the
1148	collect SS-113 grab 1, water depth: 26 cm m collect SS-113 grab 1, water depth: 14-34	1340 collect SS-121 grab 1, water depth: 1.9ft
	not successful - over-ponetrated 14.0	
1153 v	not successful - over-ponetrated 14.0 Collect SS-113 grab 2, water depth: 14.0ft successful, penetration depth: 27cm	Successful, penetration deptn: 27 cm Rite in the Rain.

K. McPeck -De-10 2/23/18 02.2618 TDO collect 55-122 grab 1, water depth: 22.2.4 1350 Arrive at Harber Island Marina. 0715 successful, penetration depth: 25cm T.DO, N. Maas KM collect SS-123 grab 1, water depta: Mut vip N/ Granity: E Sloan, P. Jenkins 0720 1400 check access@ SS-123 - need to wait read up supplies/egpt. for higher tide; not sampled 0750 Kisten Kevns (USACE) anics The 1405 Collect SS-124 grab 1, water depth: 160ft FRucinel Counter (Cleaning) ames Successful, penetration depth: 25 cm Harth & Safety briefing 1414 collect SS-125 grab 1, water depth: 5.0ft 0740 Head out to location 5 successful, penetration depth: 24cm 0750 Attempt 1, 41 8" (41,7), 18.5 cm, accept 1433 collect SS-126 grab 1, water depth: 13.9A 0800 Head to Location 4 successful, ponetration depth : 25 cm 0809 Attempt 1, 26.1 ft, 22 cm, accept 1446 head back to Herbor Island Maring 0822 Head to Location 10 The 1510 Arrive Harber Island Marina, unload 0825 Attempt 1, 23.2 A, 20 cm, accept boat 0840 Head to Location 10 1530 off-water 0845 Altempt 1,57.6 ft, rocis in jews, reject. 0850 Attempt 2, debris in jaws, washed at, reject. 0856 Attempt 3, 16 cm, accept 4m 2123/18 0905 Head to Location 14 0913 Atempt 1, 49.0pt, 19 cm, accept 0930 Head to Location 39 0941 Attempt 1, 9.7 ft., 22 cm, accept 0952 Head to location AD, SUS smuple 0956 Attempt 1, 9.6 A. i7cm, accept 1012 Head to location 45 Rete in the Rain .

12 - 2 02.24.15	-70-	PT . 7 (n 18)	-				13
	Aller II and Di II	02.26.18	d I		1		Tibo
1015	Attempt1, 9.7 ft, 16 cm, accept	1300					
1024	Head to Location Ale		contin				1.1
1028	Attempt 1, 9.9 ft., 16 cm, accept		Avrive a				
1040	Head to location 47	1348	Attempt	1, 8.4	ft, 170	m, wash	ed out
1045	Attempt 1, 9.7 Gt., 12 cm, accept		from sli	guthe ope	en jaws	bleof	oars
1055	Head to location 48		miterial	rejec	ted la	hes was	hed out)
1101	Attempt 1, 15 9 ft 13 cm, most washed	1355	Allempt				
	out/sloped, reject.	1407	Head to	, ibrea	tion 17	27	
1105	Attempt 2, 18 cm, accept.	1404	Attempt	-1,26.6	. Ft. 20	cm, a	cent
i115	Location 41 inaccessible, on land	14 Z:Z	Head to	o locas	tion 12	£	ť.
	during current conditions. Would be	1426	Allempt	1. 22.4	d. 24	aur au	wot
	difficult even during high tide.	1433	Head +	o loca	tion 17	9	-Q-
1117	Head to location the to scout/ocion .	1439	Attempt	1, 28,7	24.25	cm ac	icent
	accessibility.	1446	Head to	1 Lorat	tion 13	D	FI
1118	Westion 49 under barge Checking		location				sel to
	Locution 52 40 check accessibility.		acces .				
1122	Location 52 still underneath barge.		target.		J		
		1500	Location	131			
14	barrie.		Attempt		7210	un all	ept
1125	Head to location 11	1513	Head to	locati	on BZ		-Fi
	Attempt 1, 49, 8 pt., 20cm, allept.		Attempt				Sugar
1145	Head to location 12	1520	Attempt	2 OP	TO DO	vo co co un	, vyen
1150	Attempt 1, 26.5.ft, 17cm, allept.	1525	Attempt	3 160	a acc	2 -t-	
1155	Break to re-finel vessel.	1530	Head to	Irrat	133	p	
	state to		ind 10	un	mis	-	2
						Rite	n the Rain.

14 02.26.10 TIN 02.27.18 THO Allempt 1, 9.0.A., 19 em, accept. 1539 Arrive at Harbor (Stand Manne 0700 1345 Head back to marina. N. Maas & T Do (Windward) Arrive at menora, Offlood samples 1610 Meet up uf Gvarity: 1030 Deput for lab. End of on-water E. Sloan & Pete Jenkins (cloudy) Load supplies, prep for day (405 wind. 0705 dary. Nate Malmboug (USACE-EPA 0730 oversight) anives 0745 Remy Mathonnet (Clearways) auriles. Depart marina to recon locations in Slip 3 0750 Health and Safety briefing, in transit. 0810 In Slip 3. Location 914 completely blocked by a bange. Location 93 also blocked by concrete bridge Can get to w/in~ 5m of target. Conserted w/ Nate and he agreed we could sample here. 0825 Attempt 1, 19-8 ft., 24 cm, accepted 0840 At seattle Dist Ctr (outfall) 0843 Attempt 1, 9.9 ft. 9cm, set assile 0855 Attempt 2, 25 cm, accept. 0915 Head to Location 145 can only get win 12ft of taget b/C of mooved vesses in method

16			
02.27.18		02.27.15	·
OED	Attempt 1, 10ft., over renetvated, reject.		Head to Location 153
	(Consuited uplate, he agreed this		Allempt 1, 13.9 ft, 17.5 an, accept.
	Pration was reasonable given	(145	Head to Location 159 70
-	access (im. tations)	1157	Atempt 1, 29. 4Gt, 18.5cm, accept
0952	Attempt 2, 21 cm, augst.	1206	Head to Location 160
1005	Head to location 149	1210	Atlempt 1, 6.7ft, 19 an, accept.
1011	Attempt 1, 22.1 ft., 20 cm, accepted	1220	Head to Location 158
1022	Head to Location 150	1773	Attempt 1, 23.9. ft., avergenetrate, reject
1024	Attempt 1, 9.1 A., overpenetrated, rejec	t. 1226	Allemp Z, debnsin jaus, ocject.
1027	Attempt 2, 17 cm, accepted		Allempt 3, 16 cm, accept
1030	Recon Locations 146 \$147.	1241	Head to Location 157
	Location 147 is under barges (3	1245	Allempt 1, 17.8 A., 14.5 cm, accept
	ticd up side - by - sile	1256	Head to Location 156
	Location 146 is just up against a		Attempt 1, 8.8 ft; bun, reject.
	barge (ted up against 2 other	1300	Attempt 2, itan, accept.
	barges). Maybe able to get, w/in	1308	Head to Location 161 (SUS wation)
1020	a few meters.	1311	Attempt 1, 5.9 ft glocm, accept.
1054	Head to Location 151	1320	Head to Location 162
1043	Attempt 1, 23.1 ft. 15 cm, accept.	1325	Attempt 1, 4.5ft., <10 con, rejected
1054	Head to Location 152	1 328	Attempt 2, 9 cm, rejected.
1057	Ailempt 1, 15.9 ft, overpenetrate, reject	t. 1332	Allemont 3, 8 cm, rejected
1100	Alempt 2, 245 cm, accept.		Unable to collect sediment from target.
1107	Head to Location 154 12		Too - havd - packed Mared off target
mo	Attempt 1, 8.1A, 18 cm, accept	! ! ! ! ! ! ! !	~ 25H. Nate Water Okayed.
			Rete in the Rain .

18							19
02.27.14	K TDC	02 27-18	5				The
1342	Attempt 4, 5:3 A. 11 cm, accept.		laction	is alon	g the c	very.	
1350	Head to Location 163	1535	Anive	at men	va Bri	jin to	Doload
1355	Attempt 1, 11.1 ft., 20 cm, accept		Sampl	es/soppl	DC .	Jun 15	eff week
1403	Head to Location US	1545	Denno	FIMA	in-Grd	afor	-water
1405	Allempt 1, 17.5. Pt, 20cm, reject 4c		field	day	n	- ot - o .	
	of coarse materials, washed out with		9	d.			
	jaws slightly agape.					/	
1408	Allempt Z, 20 cm, reject - same as			94			
	ibefore.				/		
143	Astempt 3, empty punchedout.	-	1		N		-
	Move slightly off location ~ 15 ft,			X	17.		
1410	Attempt 4, 76.14. roce in jans, wished		-		4		
	out, reject.			1/2	X		
1470	Atlempt 5, 3cm, reject.	Ĩ.	A	1/5			
1424	Addempt 6, 2cm, reject. Station			V ~			
	aborted for relocation		VV				
1428	Head to Location 164						
1430	Attempt 1, 16. 8 Gt, wood in jaws,		X				
	washed out, reject.		/				
1433	Attempt 2, 20cm, allept.		/			-	
1440	Head to Location 155						
	Attempt 1, 18.9. At, Zicm, accept						
1455	Head back to marina. Take						
	photos of some bauge-blucked						
	production and a second					0	2
						Kite i	in the Rain.

20 2/28	-/18 K. MCP2 2/28/1			K. marek 2/28/18
0705	Arrive Harbor Island Maring, prop + low	1 0905	Arrive upper basin, prop boat	10
	J. Rheuben Windward Supplie	1	go under bridge to access	
	K. Mgeale /		166, 167, 168	
0730	meet boat and : and Remy Mathemat) , 0916	Arrive SS-166	
	Gric Parker Research Support	0920	Gllect 55-166, 8.4ft,	
	Andrew Moth Services		grab 1 not accoptable - w	ashed out
0730	neet USACE (ERA ARTSight):	0922	collect SS-166 Stab Z, 8.4 A	
	Nate Malmbarg		accept	
0745	H+S briefing	0930	collect SS-167 Srabl, 9.5Ft,	28cm
Weather :			accept	
Tides:	Low: 5.7' @ 0950	0938	collect 55-168 grabl, 12.44	4
	High: 11.1' @ 1500		not acceptable - washed on	4
0800	Deport Harbor Island Maring for SS-139	0940	Collect 55-168 grab 2, 12.4	ff. 25cm
	decon sampling equipment in route		accept	
0830	Arrive SS-134	0952	arrive SS-165 : location a	Hempted
0833	Collect SS-134 grab 1, water depth: 10.5	<i>ft</i>	Yesterday	
	penetration deptn: 26 cm accept	0958	Collect 55-165 grab 1 @ -0	ft off
			target to avoid previous s	
0843	Collect 55-139 grab1, 10.6ft, 27 cm		locutions, 11.0ft, 280	m
	accept		accept	
0852	collect 55-136 grab 1, 14.9 ft, 26 cm	1015	Collect 55-140 grab 1, 18.1 +	4.26 cm
	accept	÷	not acceptable washed out, b	
0858	head to upper basin to recon SS-166		in jaws Km branch in juw	
	to SS-168 - accessible under bridge		in jaws Km branch in jaw accept Washed out- of grad	cceptable
	only during low tide	-	no winnowing fines	no lors of

K.met	eek		K MCO. ak
22 2/28	118		K. McPeck 23 2/28/18
1025	collect SS-139 grab 1, 6.6 ft, 24 cm	1151	Collect SS-102 grab 1, 12.9 ft
	accept		not accepted: over penetrated
1034	collect 55-138 grab 1, 18.5 ft, 29 cm	1153	collect SS-102 Brab Z, 12.9ft, 29cm
	accept	+ 12.01	accept
1042	collect SS-137 grab 1, 18.4 ft, 25 cm	1204 1201- KM	collect SS-101 grab 1, 28.2 ft, 25 cm
	accept		accept (SMS loc.)
1050	head to South Park Marina for rest	1237	collect 55-100 grab 1, 18.3 ft, 26 cm
	stop		accept
1105	head to SS-105	1246	check access @ 55-079: blocked by
1/15	Collect SS-105 grab +, KM SS-105		nbarge, closest available location
<u> </u>	temporarily blocked by barge,	Inpacific	nbarge, closest available location " to sample is ~ 16.5 m off figet;
	head to SS-104		not sampled. Sent photo tos macarody
11/8	collect 55-104 grab 1, 26.0 ft,	+ 1251	collect SS-098 grab 1, 7.4 ft, 28 cm
8	not accepted : over penetrated		accept
1122	collect 55-104 grab 2, 26.0 Ft, 23cm	1301	check access @ SS-096: blocked by
l	accept	"Kenai	Abarge by -26 m off target ;
//33	collect SS-105 grab 1 : - 3.6 m off	Trader	not sampled. Sent photo to S. Migrody
	target due to barges	1306	collect SS-092 grab 1, 35.6 ft, 25cm
	22.4 Ft, 26 cm		accept
	accept	1320	Collect 55-091 grab 1, 8.6 ft, 22 cm
1141	check access @ SS-103 : blocked by		accept (SMS loc.)
	barge (B/G Mayal), "36.5 m off	÷ 1337	collect 55-089 grab 1, 23.0ft, 25cm
	target . not sampled Sect photo La		accept
	K. Mcp. S. McGrody	1348	collect 55-087 grab 1, 24.7 Ft. 28 cm
4	K. Mc Peak Z/28/18		accept Rite in the Rain.
			The in the nume.

					K.M. Peek 2/28/18	3/1/	10					Mcfeelc 1/18 25
1358	Collect	55-0	85 grat	1, 35	3ft, 29cm	• •		e Harbon	Island	Marina	unload	
		rept	1					hesben		5		
1415	Meet a	Franky	boat to	exchan	age supplies			creek			-	
1422		-			ocked by				+ Clen	way CR	Matho.	net)
	1		m from							Research		1
			nt phito	(T-1)					/	Senice		
1429					4, 25 cm	1730					of Seattle	1
(1429)	acc					6745	hee	Hn + Sa	kets has	6.00	a and	
1441	check	access a	9 55-09	o: uno	er 1st Ave	Weathe		41°, svn	000	n'g		
	-				lin 10m			ow: 103				
			actly or					kgh : 155				
	picir	195 (N.	abutmen	tof east	(can)	0755					0.00	-011
1442	collect	55-09	o anh	1 35.0	ft, 23 cm	0812	1.1			11.752	for SS	
	acc	ept.	-8 m	off to	met.	0819					ocked by	
1453			Harbor Is			0011					d locar	
1554 KM	1504 0					0820			106 ST		(55-094	
-			out C			0000		Gr SS-			rd locat	IVA L
1515	off-wa					0822		1		110		- 11
/	011					COLL					re-rando	
									20.04	penet	ATT M dep	ta: 28cm
		(and				10839		accept				
		1	MAR					742 33-1	16; sti	11 blocked	1 by bar	0e
			1	2/28/		0840	pr	acoed to	re-rand	omized /	OC. 1 for	55-116-
				-6	<u>م</u>	deul		1000		y Same	-	
						0841	pr	acced to	re-rai	ndomized	loc. Z fo	r 55-116
<u></u>					~						Rite	in the Rain .

26 K.M 3/	14feek 11/18		6. McPeek 3/1/18 27
0842		1008	collect 55-143 grab 1, \$ 10.8 ft, 28 cm
	100. 2, water deptn: 24. 2 ft		accept (SMS location)
	penetration depth: 26 cm	1019	chick access @ SS-144 - blocked by
	accept	4	barge but can sample - 4m from
0856	Arrive SS-130 - Scope access in South		target
	park Marina, where target coordinates	1023	Conect 55-144 5reb 1, 12.1 ft, 24 cm
	are located; can sample within 10m		-4m from target, accept
	of forget	1032	Collect 55-148 grab 1, 9.3 ft, 27 cm
0909	collect SS-130 grab 1 @ target location		accept
	w/in 10 m (in Sister Parte Marina)	1039	check access @ 55-147 - blocked by
	-3.5 m off target		barge, not sampled
	9.1 ft; not accepted over-penetrated	1041	check access @ SS-146-blocked by
6913	collect 55-130 grab 2 - 3.5 m off target		barge but can sample win 10 m
	9.1 ft, 28 cm	1042	collect SS-146 grab 1, 14.0ft, 27cm
	accept but need to resample for		accept, sampled whin 10m
	extra SMS volume		of target
0928	Collect SS-130 grab 3 -3.5m off turget	1056	re-chick access @ SS-147, can
2	8.8 ft, 25 cm		Sample ul in 10 m from the back
-	accept		of barges
0957	check access @ SS-141 - blocked by	1058	collect SS-147 grab 1, 12.6 ft,
	barges; not sampled Sent phito		not accepted - over-penetrated
	to S. McGnody	1107	collect 55-147 grab 2, 12.7 ft, 26 cm
1000	Collect 55-142 grab 1, 2.8 ft, 23 cm		accept, sampled whin 10 m of target
	accept	1112	boat mantenance
			Rite in the Rain.

28 K.M. 3/1		K. McPeelc 3/1/18 29
1123	head to S. Park marine for rest break	1253 collect SS-096 grab 1 @ re-randomized
1145	head back to SS-141 to sample re-	10c. 1, 18.4 ft, 26 cm, accept
	randomized location	1303 check access @ SS-088, target is unles
1155	collect SS-141 grab 1 @ rerandomized	boat house in small marina, can
1	location 1, 12.8 ft, 25 cm	Sample whin 10 m - Duwamish Marine Center
	accept	1305 collect SS-088 grab / w/in 10m of
1215	arrive 55-103, target still blocked by	target, 18.9 ft, 25 cm, accept
	barge, proceed to re-Pandomized loc. 1-	1314 check access @ 55-086, blocked by
	blocked by some barge	barge but can sample w/in 10 m
1217	proceed to re-randomized loc. 2;	1316 collect SS-086 grab 1 win 10 m of
	accessible	target, 23.0 ft, 27 cm 1-7.2 m
1218	collect 55-103 grab 1 @ re-randomized	accept
	loc. 2, 17.1 ft, 26 cm, accept	. 1328 check access @ SS-070; still blocked by
1228	arrive 55-099, target still blocked by	barges, proceed to re-randomized
	barge, proceed to re-randomized	10C.1 - also under barge
	100.1	1330 proceed to re-randomized loc. Z
1230	collect SS-099 grab 1 @ re-randomized	blocked by barge; bit possible to
	10c.1, 25.5ft, 26 cm, accept	Sample whin 10 m
1239	arrive SS-097, torget still blocked	1335 head to re-randomized loc. 3
	by barges, proceed to re-randomize	1340 collect SS-070 grab 1 @ re-random-
(7)//	10C.1	12ed 10C. 3, 44.4 ft, 22 cm,
1241	collect SS-097 grab 10 re-randomized	accept
1201	10c. 1, 30.6 ft, 23cm, accept	1350 check access @ SS-066; Still blocked by
1250	by barge, proceed to re-randomized	barge. Proceed to re-randomized loc. 1;
	loc. 1	also located under barge Rite in the Rain

30 /C. / 3/	MCPeek 1/18	3/2/18 K. mepeek 3/2/18 31
1353	proceed to re-randomized loc. 2	0700 Arrive Harborlsland Marina, Unload cars
1356	collect SS-066 @ re-randomized loc. 2	J. Rheuben & Windward
	38.0ft, 23 cm, accept	K. McPeek
	collected -7.3 m off target	0715 Meet Clerway: Remi Mathonnett
1407	meet Granity boat to pass off	0730 maet RSS: E. Parker and A. Muth
	samples collected by other boat:	load boat
	55-016, 55-023, 55-050;	meet Debra Williston Claing County)
	labeled jars	Weather: 40°F, claudy
1416	collect 55-031 grab 1, 15.6ft,	Tides: Low: 3.9'@ 1119
	19 cm accept	Hist: HALA USA
1435	collect SS-030 grab 1, 13.7ft, 20 cm	, 0740 heathand safety briefing
	accept	0747 depart Haybor Island Maring
1442	collect 55-029 grab 1, 21.8 ft, 14 cm,	0802 Arrive SS-083
	accept	0805 collect 55-083 grab1, 8.2ft,
1454	Collect 55-028 grab 1, 38.2 ft, 27 cm,	not accepted: insufficient ponetration
	accept	0810 collect 55-083 grab 2, 8.244,
1500	head back to Herbor Island Marina	not accepted: insufficient penetration,
1506	Arrive Harbor Island Manina,	add weights to grab sampler
	off load	0818 collect 55-083 grab 3, 8.2 ft,
1515	off water	insufficient panetration - not accepted
		0822 collect SS-083 grab 4 W/in 10m, 9.4ft
	Cate mugo	insufficient penetration + washed out -
	tate myself 31-118	not accepted
	ille ille	0825 collect SS-083 grab 5 ulin 10m, 8.7 ft.
		Sume cobbles; keep boul of sample and item
		Sume cobbles; Feep boul of sumplementations

32	K. McPeek 3/2/18		K.prq 3/2	aek. 118 33
0825	try again. Call S. McGrody; 2 more attempts	0951	collect SS-075 grab 1, 36.0A	4 77cm
0833	Collect 55-083 grab 6 w/in 10 m, 13.4ft,		accept	
	partial weshout but acceptable to use 19cm	1001	collect 55-076 grab 1, 17.7 10	7 25 cm A
	non-walked out parties of grab. Keep	1010	check access @ SS-074 ac	rescible
	boul of sample and try again.	1014	collect 55-074 grabl, 7.6ft	23cm
0842	Collect 55-083 grab 7 w/in 10m., 12.9ft		accept	
	not accepted - washed out	1023	collect 55-073 grab 1, 38.9.	ff
	homogentu/process grab 6		not accepted: ares-penetrate	2'
0845	call S. Mcmody: agrees + keep grab 6	1029	collect 55-073 grab 2, 38.6	Ft. 28 cm
	and will discuss if new coordinates are		accept	//
	næded	1041	collect 55-071 grab 1, 27.11	74
0856	check access @ SS-084: barge work		not accepted - washed out	
	in area, will return later	1044	allect 55-071 grab 2, 26.3	SFL 14cm
	check arcess @ SS-080: accessible		accept, location is sloped	
0900	collect SS-080 grab 1, 28.5 Ft, 27cm,	1055	Received re-randomized locar	tions for
	accept		079 and 083	
0911	Collect 55-078 5rab 1, 19.9 ft, 25 cm	1059	Arrive 083	
	accept	1101	Collecta 083 grab 8 @ re-ran	domized
0923	check access @ SS-079: blocked by		. loc. 1 , 25.2 ft , 29 cm , a	ccept
	barge "55 m from target ;	1107	dispose of previously collec	ted
	not sampled. Sent photo to S. McGray		Sample for SS-083 (grable) per
0926	Collect SS-084 grab 1, 30.4 ft, 27 cm	1	S. MiGrody; disposed of o	n-location
	accept		(where collected)	
0937	collect 55-077 grab 1, 36.1ft, 28cm,	1118	collect 55-079 @ re-random rue	d loc. 1,
	accept		37 SEL 240 and 1	En the Rain .

3/2	2)18	K. mereek 35 3/2/18 35
1129	Head to Harbor Island Marina for rest stop	1350 check access @ SS-OS6: not accossible -
1212	Arrive SS-013	located unker pier: not sampled
1214	Collect SS-013 grab1, 37.3 ft, 26 cm	1353 Check access @ SS-OSS: OK
	accept	1354 check access @ SS-054: OK.
1225	Collect \$5-017 grab 1, 47.1 ft, 26cm	1355 Chuck access @ SS-053: OK
	accept. Cable cought in jaws but	1356 check access @ 55-044: OK
	grab is acceptable (and not washedowst)	1358 collect 55-044 grab 1, 6.7 ft, 13cm,
1239	Collect 55-018 grab 1, 23.7ft, 22cm	accept, 10.1, 19 m,
	accept	1407 collect 55-053 gmb 1, 43.4 ft, 25 cm
1249	Collect 55-020 grab 1, 27.3 ft, 21cm	accept
	accept	1418 collect SS-OSY grab 1, S.Z.Ft,
1257	check access @ SS-019 : Still blocked	not accepted : washed out
	by barge. Proceed to re-randomized	1420 collect 55-054 grab Z, 5.2.Ft,
	10c.1 - blocked by some barge but	not accepted : washed out, rocks in jaws
	can sample whin 10 m	1423 allect 55-054 grab 3, 5.2 ft
1301	collect SS-019 w/in 10mof re-	not accepted: washed out
	randomized lac. 1, 44.1 ft, 27 cm,	1428 collect SS-054 gras4 w/in 10m 3.7A
	accept	not accepted : washed out
1311	collect 55-021 grab 1, 45.6 ft, 25 cm,	1430 collect 55-054 grab 5 wlin 10 m, 10.3 ft,
	accept	not accepted: washed out, rocks in jaws
1321	Collect SS-022 grab 1, 42.0ft, 13 cm,	1433 Collect SS-054 grab 6 u/ in 10m, 6.9ft
	accept	not accepted : asashed out
1333	collect 55-024 grab 1, 37.8ft, 27 cm,	Contacted S. McGrody; will move on
	accept	Until hear back
		Rite in the Rain.

36	K. McPeek 3/2/18	37
1444	Collect \$5-055 grab 1, 40.7 ft, 25 cm,	
	accept	
1456	Collect SS-056 grab 1 @ R-randomized	
l	10C. 1 Ctarget is under a pier), 36.6 ft,	
	25 cm, accept	
1504	Check access @ SS-057: still blocked by	
	barge, proceed to re-randomized loc. 1-	
	also blocked by same barge	
1507	Proceed to re-randomozed loc. 2 - also	
	under barge but can sample whin 10 m	
1509	Collect SS-057 @ re-randomized loc.2,	
	within 10 m, 32.5 At, 25 cm, accept	
1520	check access @ SS-058: still blocked by	
·	barge, proceed to re-randomized loci	
1524	Collect SS-058 @ re-randomized loc1,	
	35.0ft, 28 cm, accept	
1533	return to SS-DSY to sample at re-	
	randomized loc 1.	
1534	collect SS-OSY grab 7 @ re+randomized	
1534 p	10c. 1, 17.3 ft, 13cm, accept	
	Small part washed-out; used non-	· · · ·
	Wished out parties of Sample	
1546	Head back to Harbor Island Manna	
1557	Arrive Harbor Island Marina, unload	
1615	off-water _ lay 3/2/18	Rite in the Rain .

2 5·16·2	2018 S. Replinger
	- Clam tosse collection-day 1
0920	
	for clam tossie collection:
	Weather 50s, across
	Crew: S. Replinger, T. Do, J. Rheiben,
	N. Mass, L. McReen (WW)
<u>å</u>	Rached Crawford (Cleanuays)
	Chad Furulie (Granh), knisten
	Low tide: -1.7 st 11:46 am (USACE)
0940	425 brefine
0950	Depart boat ramp & prop for sampling.
1005	Arrive at clumming area 6.
1023	Collect sediment for outfall 2510.
	(LDW18-SJOT-2510)
1035.	Finish processing sediment.
1037	Conduct claim collection demo.
1040	Start clam collection
1155	Finish claim tissue collection. Record GPS
C DOTE:	Coordinates
1201	Collect CPAH sediment for All
	(LOWIS-SSCL-AII)
1230	General notes regarding COG area:
	- clams "obundant of all sizes,
	-encountered many small claims
	while disging at shows

5.15.2018 S. Ruplinger - area closer to creek very muchy and less accessible to yetting sheh. - clams most abundant under bridge near water. -Sedinent generally fine I red. send wi silt. 1238 - Finish processing clams and sectment. Local supplies onto boat. 1245 Depart Clam area COG. Head to scope out ability to sample arf211 2119 1255 Arrive at beach to sample affall 2114 Necessary to walk along Shere behind barge (303 Collect 1018-3307 2119. Process Sample; and whith for bout to return. 1320 Boat armes; lood supplies and head back to built mamp. 1330 Amic at boot ramp Official supplies. End & on-water day. 1345 Depart bout ramp. End of field tay. Jup 3 5. 5. 2018 Rite in the Rain.

2406.12.18 06.12.18 TAD UZ-At 1st Ave boot ramp. 0715 1120 Meet op w/ other fear. See other bos, sunny. Meet up w/ Pete Jentine logbooks for details to end of day for continuing efforts Ci & Rachel 1250 Head back to boat rainp. - Remy Mathomost 1310 Annie. Offload forganie. USAGE - Kristen Kcons 1320 End of on water day, Windward - Suzanne Replinger - Kate Me Perk - Mille James - Aavon Edgington - Brian Church -Amira Vandenait -Nina Maas - Jerma Rheuben Teva Stat - Lowanne Read. Hearth & Safety lotiefing 0820 0830 Head to CLOG/BPS to denne and stant sampling. Unableto access BPS-AOI without boat chop of 3PS-BOI underwater along pipe at ip rap wall Did not collect Bank samples 4-1, 4-2, 4-3 Rite in the Rain

36		K. McPeek 3/2/18	June 12	7018		-	61. K.1	12/18 Meroele 37
1444	Collect 55-055 grab 1, 40.7 ft	, 25 cm	Interhold		+ sampl	ny Day	1	
	accept	,	. 0800 Arr					
1456	Collect 55-056 grab 1 @ R-range	lomrud				for sump		
	10C. 1 (target is under a pier),.	36.6A,			Sunny			
	25 cm, accept		985 N		1040			
1504	Chick access @ SS-057 : still 61		11 ml 11			Doy K. 1	Mipeek,	N. 19 455
	barge , proceed to re-randomize	d loc. 1-				Vandens		
	also blocked by same barge	8-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1.			Younes .		
1507	Proceed to re-randomized loc. 2 -	also				(Irran ty		
	under barge but can sample win							S (llardag)
1509	Collect SS-057 @ re-randomized					(USACE)		
	Within 10 m, 32.5 ft, 25 cm		2			(Terras	++)	
1520	check access of SS-058: still b		0815 H+			er boat		oling
				itity				5
1524	barge, proceed to re-randomized	1 loc 1,			Art. 5 br	at ramp		×
	35.0ft, 28 cm, accept		0842 Arn	VE CLOG	for der	me of sa	nding	
1533	return to SS-054 to sample at	re-	te.	chnique	+BP5	lig demi	hilec	
	randomized loc 1.					mple colle		
1534	callect SS-OSY grab 7 @ re+rai	domiad	· /a					s
1534 pm	10c. 1, +7:5 ft, 13cm, accep	of .	A			s @ CL		
	Small part washed-out; used ,	101-	1			mule w		
	Wished out portion of San	ple .			7, heids	A	57	<u> </u>
1546	Head back to Harbor Island Marin	29				mples, r	nark loro	Lons
1557	Arrive Harbor Island Maring, unla	ad				the s box		
1615	off-water - 10m 3/2	118	1306 Arrive	1st Are.	sboat ra.	mp, off-u	rater Rite	in the Rain

² S. Replinger 6-12-2018 Sikeplinger 6-12-2018 Only able to collect down to LOW ADC3 Intervided Sed - Day 1 23 cm at CLO4-A05 (inded on feld 0750 Arrive at 1st Are S bust ramp firms Prep for sampling. 1110 Depart CLO4 and head back to Weither: sunny, 603 Tide. low ride at 10.40 (-1.9 ft) group of CLO9/11/13 + BPS. Return to CLO9 & reconverse "1 other Crew: S Replinger, T. Do. L. McRock, 1122 teams. Pick up one team. N. Mass, J. Rheuben, A. Vandenort, 1130 Arrive at CLII (BP5 (mddle). B. Church, Aaron Edgington, M. Yames SR, NM, AE, RM, JR, MY, HK, LR disendent (Windura) to collect samples. Pete Jenmos (Granty) Remy Mattorine Rochel Crawfe 3 (Cleaning) 1150 Finish of CLII BP05, Collect all Knoten Kenns (USACE) 6 samples. 1155 Boot amires. Rinse supplies and Lorraine Reed (Terrasitat) 0815 Conduct HRS briefing to cour 602. 1200 Arrive at CL13/BPO5 (suth) Begin boot and semping 0840 Arrive at CLO9 / BP5 to begin collecting samples. Calleet at CL'ens BP samples as Sampling demo. far upstream as Dunanish Waleoney 0945 SE, NM, LP, HK, EM departs head to CLO4 to collect sediment. Park. 1230 Finish collecting CL + BP samples 0955 Amerit Clot. Begin sediment Find BNKS9 Sample and cullect collection. Sample (including FD and extra 1100 Finish collecting sedment. Unable to GS Sample for lab Cac) known kenns collect sediment at Click-A06 due Observed BNKS-1 Collector. to rip/rap slupe in this area and absence of reposed sediment. Rite in the Rain

5 Replinger S. Peplinger 6.13 2018 6-12-2018 LOW ADC3 Intertidal Sediment - Day 2 Consilied QAPP regarding chileria 0820 Arnive at 1st Ave 5 boat ramp. for bank sul locations. Kristen agreed Prop for sampling. that target location net criteria, so proceeded I sample calledon. Weather overcost, 605 Tide: - 2.8 at 11:22 am Finish Sample contection. Loud beat and 1245 Crew: S. Puplinger prop supplies for Wednesday sampling. Depart CLI3/BP05. Here & 1st Ave S TOG 1253 K. McReek bridge (Windward A.Edgington 1310 Arriveat 1st Are S budge. Organize supplies for Wednesday. Officera supplies. N. MODS 1320 Crew departs. End of field day. J. Rhenben B. Church M. Yarnes Lorraine Recd (Terrastat) REMY Mathonnet } (Clearways) Rochel Crawford 6.12.2018 Pete Jermins (Granty) Depart 1st Aus boat ramp 0850 Conduct HES briefing and review notes from 6/11 sampling. 0900 Arrive at CLO7/ north part of BP4. Prep for sample collection. (SR, LR, NM, RM) 0915 Begin collecting samples: CLO7 (6 jors), BP4-ronn (7 jors), and 3 bank soil Samples. Retein the Rain

26 06-13-13 06.13.18 Anne 1st Are beat launch OKDO Continue eduction BB& allsamples 1025 PERP supplies, 60's, cloudy 1345 End of collection. Acad back WW. Slephing to pick up other creas and T.Do head to boat ramp. K Mi Ruk Amin at boat rang. Offload 40 A Edgington End of on water day. 1445 N. Maas B. Rheuben B -Church M. Janes Tenalat lonaine Keal Cleannays - R. Mattionitt. R. Craufed Gravity, P. Jenkis 0850 H/S brief Depart For ste 0930 Rayin collecting BNK4-1, 4-2 \$4-3 Samples Begin collecting BP and CL samples. (3P5-A01 4BOI) 0945 BTS-BOI against ionwate bourier wall and oip rap. Not a beach location is against steep riprap slope and mound barge. Relocated upstream to beach wear. Rite in the Kain

K. Mcfeek 38 K. MelseR June 13, 2018 6/13/18 6/13/18 Intertidal sediment sampling : Day 2 1255 Arrive CLO3, begin sampling 0830 Arrive 1st Are 5 beat ramp, meet Granty transect C, finish transect C and collect and prepare fir sampling roordinutes; not able to sample forther Weather: 50s, cloudy due to tide Tide: 1000 0 1122, -2.8 ft 1400 Deput CLO3 head bade to 1st Aire S Crew: S. Replonger, T. Do, K. Meleek, N. Mans boat samp J. Rheuben, B. Church, A. Edgington, Arrove 1ST Are S boat ramp, vaload 1420 M. Yarnes, (Windward) off-water Pete Jenkins (Gravity) R. Mathennet. R. Crastord (Clearways) Lotraine Read (Turristat) 0845 HAS briefing, depart 1st Ave 5 bout ramp 0925 H. Mepoele, M. Yarnes, R. Crawford arms 0925 CLOS, begin sampling @ CLOS, collect coordinates Locations CLOS-COI, CLOS-A02 relocated due to riprap Could not collect CLOS -A01 - loated on riprop slope with no nearby options to relicite 1122 Finish CLOS Arrive (106, begin sampling @ CLOB 1144 (106-ADI and -AD3 located on reprap relocated to nearest sampleable lac. 1240 Finish CLOG, had to (603 Rite in the Real

6 S.	Replinger 6.13.2018	S. Replinger 6-13-201	7 8
	Finish collecting samples at CLO7 + nugh	1345 Depart BP5/CLI3, Head to pick up	
	area of BP4. Successfully collected all	kate & arew at BP3/Ci03.	
	6 CL sumples, 7 BP samples and 3 bank	1400 Pick up pare & Crew	
	Sort samples.	Head back to beat ramp.	
1115	Depart beach. Head to CLOB + south	1420 Arrive at 1st Aves. Bridge Offload	
	part of BPA to coile ut samples:	Supplies	
	CLO3 (6 jars) + BP4 (8 jars).	1490 Crue departs. End at field day. /	- C
1120	Arrive at CLUS/BPA-South. Official		
	supplies.		
1135	Bayin collecting samples at aus BP4-5.		-
	-Numerous Clam shows in this		
	arra. Several locations moved die		
	to soft substrate around creek, as		
	hoted on field fams.	and market	
	- Endence of prop scour at Suth	$\mathcal{N}, \mathfrak{S}$	
	end of CLOS/BP4.	2 Jun	
1303	Finish collecting samples at CLUS/BP4 with	<u> </u>	
	Successfully collegest all 6 CL and all		
	8 BP Simples. Finish checking jarat		
	fams.		
1310	Boar arrives. Contact have + Thai to		
	Check progress. Decide to head to		
	BP5/CLISto help Thai finish.		
1330	Arrive at Send of BPS. Shart collecting		
	Samples.	Rete in the	Rain

28 TID 06.14.15 06.14.18 TDO Arrive art Harber Island Marina Rick up other team. 0850 1250 (Could), Meetup w/ Rete Head to CLO1/BP1 300 Jenkins (Gravitz). Load supplies 1310 Begin samply. End sampling. and egyst. 1353 60°s, overcast. 1405 Head back to marine Arrive. oppload. WW: S Replinger 1420 K. Mckel 1440 End of field day N. Maas J- Rhauben A. Edgington M. Yames B. Church 06. A-Vandevoit T- DO CW: R. Mathomet R. Courfard. Terrastat: L. Read KC: Debra Williston Note: moved CLOI-BOI 0920 H/S briefing Depart for Kellogy from tribulary closer to ion confluence b/c not Island. Anine Kelling Island. Drop off a clamating exposure and. 0530 OK'd by Derbra Willitter. 1 team. Beyin sampling Ogys Completed sampling at Kerlogg (dand. 1200 Rite in the Rain.

S. Replayer S. Replinger 6.14.2018 8 6.14 2018 LDW ADC3 - Intertial Sediment - Day 3 0935 ited to keilogg island 0850 Arrive at Horber Island Manna. 0940 Arment Rellagy island. Other two Prop for sampling. crus depart to begin sampling. Weather overcost, 60s 0945 Begin sampling, starting with Tide: - 3.4 ft at 12:07pm transeets G. H. and F. Oren: S. Replinger Then proceed to transects D+C. T. Do 1250 Firsh of CLO2 + get picked up by In McPeer beat. Jon other two crais J. Rherben (Windward) already on the boat Six somples actual N. Maas 1300 Depart CLO2/BPZ. Knoken departs B. Church Head to CLOI + BP1. Gr) M. Yarnes 1310 Start collecting samples at CLOI/BPET. A. Edgington Collect definite sample at A. Vandervort BP1 (2-1602 jours per hole). Lorraine Reed (Terrastat) Joined at beach by Elly Hale (ErA), Remy Mathomet } (cierrys) who was present to observe Rachel Chawker J Sampling. Rete Jenkins (Granty) 1355 Finish callering samples of BP2 + CLO Depart Harbor Island Marina. Head to 0920 405 Depar BP2/CECHI. Head back to Havber Island. Hanar Island Manna. Conduct HES briefing. 1420 Annuat Harber Island Manna, Offluid sample, 6930 Arrive at Horning 1 towe Park and meet 1440 Crew duports. End of field day. up of Knisten kerns kate's crew departs to begin sampling. S. Replinger 6-14-2018 Rite in the Rain ,

K. NCPECK K. McPerly 6/14/18 June 14,2018 6/15/1841 June 15, 2018 Interndal Sidiment Sumpling : Day 3 Intertidal sediment sampling: Day 4 0850 Arrive Herber Istand Munna, meet Granty, 0915 Arrive Harbor Island Marina, meet Granty, prepar for sumpling prepare for Sampling Wistner: 50s, cloudy Weather: 60s, sunny Tide: 100 @ 1207, -3.4 Ft Tide: 100 @ 1253, -3.5Ff Crew: S. Replinger, T. Do, K. Mefeck, N. M. as, Crew: S. Reglinger, T. Do, K. McPeek, N. Maas, J. Rheuben, A. Vandensort, B. Church, T. Rhosben, A. Vandework, B. Church, A. Edgington, M. Yarnes (Windward) A Edginston (Windward) Peter Jenkins (Gravity) Pete Jenkins (Granty) R. Mathomet, R. Crastord (Chernisys) R. Mathinnet, R Crawford (Clourusugs) Li Reed (Terrastet) 6 Reed (Terrastat) D. Williston (King lanty) J. Florer (Port of Southle) Doport Harbur Island Manna 0905 Sean Conway (Bueing) 0930 Arrive OLOZ, most Korsten Kerns (USALE) 0945 Depart Harber Island Marina, K. McPoek, M. Yarnes, B. Church, R. Crewford, 0935 flts briefing K. Kerns begin sampling CLOZ, BPZ, Head to CLIS + CLIG and BNKI-1 K. Mclock, B. Church, K. Crawfird arrive 1035 CLO2-AOI relocated due to riprap CLIG, begin sampling Finish sampling CLOZ, BPZ, BNKI-1 1220 Relocated many points due to deep, sinking K. Keins departs Sidiment (past Mid-calf) 1235 Depart CLOZ CLIG-AOZ MICCAED due to Mp rap 1305 Arrive CLOI, BPI Finish CLIG, head to CLIS to belp other 1415 begin Sampling grup 1400 Finish CLOI, BPI; depart Depart 6215, pick up other crew and head back to Harbor Island Maring Recenter Rein 1510 1420 Arrive Harbor Island Manna, Unload, off-

30 06.15.18 06.15.18 TO TOO 0915 2200 1315 Complete sangling. Head Anjoe Hurber Island Marina - Cooch. Meet up w/ P. Jenkins (brainty) to C12. 1330 Begin sampling at C12 land supplies. 60-70s - ptly classly 1500 complete sampling at CIZ. L@ 12:53p. WW: 5 Replingen 1515 Picked up by boat Head to marine. 1600 Awive at Harlow Island K McBuk Marina. Offload. N Maas J Rheuben 1615 End of on-water day A Edgington B Church A Vandemast TU T-Stat L. Read CW R Mathanet Boling S. Conway Portos. J. Florer 0930 4/5 brefing Prep 0925 Deput marina for turning basin, CL15 & 3P7 1040 At 3P7/als- begin sampting. 1230 Completer Head to C13/15P5 to pick up remnant samples. 1245 Completer Ambre. C13/BPS. 1250 Begin sampling Rite in the Kain

10 S. Rep. yer S. Repinger 6/14/2018 6/15/2018 Notes regarding 6/14/2018 sampling -> LDW A0C3- (ntertital sediment - day 9 CLO2 -Six samples not collected 0915 Annue at Harber Island Manna. for mis ana. Prep for sampling - HOI and IOI not collected due Weather Sinny, 605. to placement of targets in Tide: -35 FF at 12:53 area that was not in the Crew: S. Replinger intertital (plants/shulos T. Do covered area) K. McReek (WINAWARA) - C\$6, C\$8, D\$8, and DOA not N. Maas J. Kherber ecileers duc to muchy substrate. BP2 - all somples collected to issue. B Church CLOS - all samples. Collected. Bused on A. Edgington conversioning 7 Debirar - Linaine A. Vandurvar , (and Elly itale), mored Cloi-BØI Lorraine Read (Terrastar) Rochol Crawford } (Cleanning) Romy Mathonnet } (Cleanning) Closer to interfided area where Clam shows present. Taget was Sean Conway (Breing) in freshneter orecl (not rep. if Interfidor area). Interfidor layer Pete Jenkins (Granny) should be adjusted. Juanna Florer (Portof Seattle) BP2-all samples collected 470 0945 Depart Harbor Island Manina. Head to Issue (induding FD). forning basin to collect samples at CLIS, CLIG, BP7. and BP8. 020 Arrive at CLIS (Sart) + BPS. Crew ofs R. NM, RM, LP, SC departs. Rite in the Rain

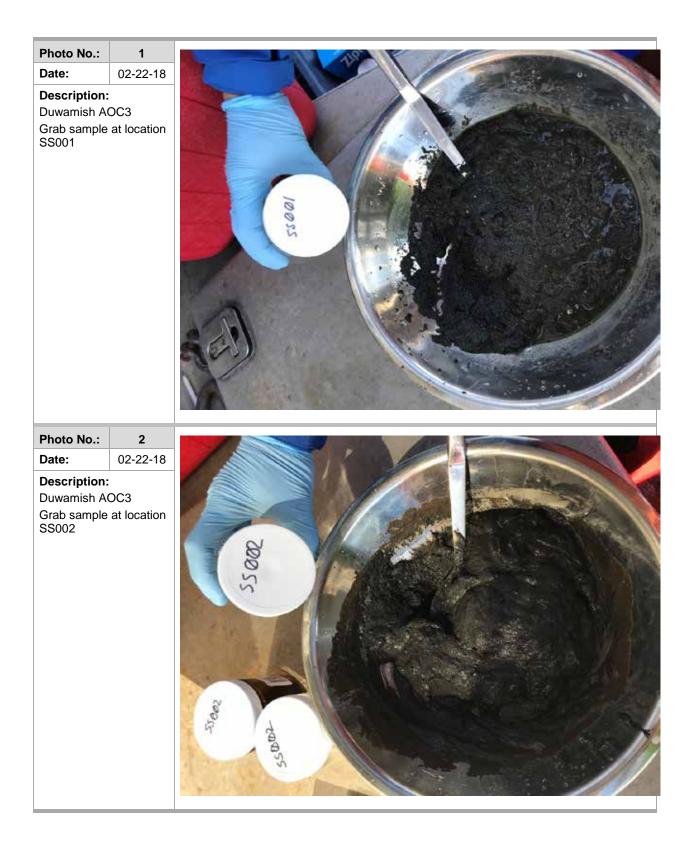
32 06.16.19 06.16.18 TID TD 0940 Ambe at HI, Maina, Prep. 1570 Crew deputs. End of an Weather WO's, ptly clorely Water Field day (5.5. on -water WS) -3.2Pt@ 1341 Com 5 Replinger K. Mc Rek . J. Rhenbers . A Vardenait ww N. Maas A. Edgington B Church A. Handey · B Bergquitt. CW R. Crawford R. Mathomet Gravity P. Jenkins J. Wilson. WW T.D 1030 Deput manine for CL12 H/S briefing 1055 Annie CL12, begin sampling. 1400 Compteted Sampling. Head to other crews. 453 Annie mann. offlord supples and samples. Rite in the Rain .

42 6/15/18 K. M. Peek 6/16/18 JUNE 16,2018 1600 Arrive Harbor Island Martin, Unload, Interfidal sediment Sampling . Day 5 off-water 0945 Arrive Herber Island Murina, meet Granty, prepare for sampling Whether: 60s, overcast Tide: 100 @ 1341, 3.2ft Crew: S. Replager, T. Do., K. Heleek, N. Mags. J. Rhesben, A. Vandewort, B. Church, B. Berginst, A. Hauley, A. Edgington (windward) R. Mathennet. R. Crawford (Clearways) P. Jenkins, J. Wilson (Grownity) 1020 His briefing 4 J. Wilson Depart Harbor Island Manina on Muzama -1030 B Berguist, B. Church, f. Crawford, K. Mcfeek Hend to CLO3, BP3 Arnue (103, BP3 - begin sampling 1040 1440 Finish sampling at Clos, BP #3 head back to Herber istand Maring Amore Holder Isind Manne, unload boots, 1455 off-water Kangen 6/16/18 Rite in the ,

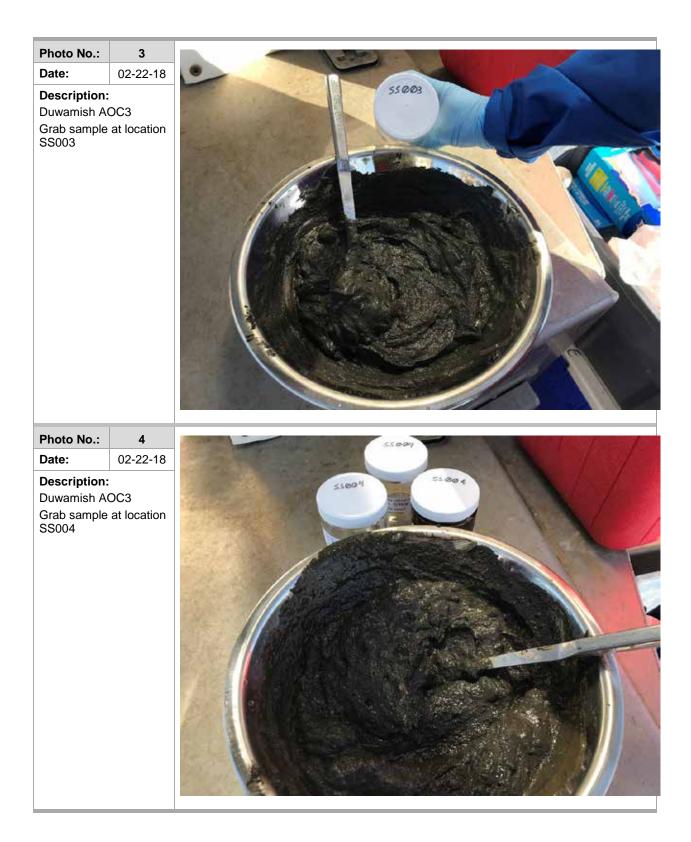
6.16.201813 S. Replinger S. Replinger 6.15.2018 0940 Arrivat Harbor Island Manna. 1025 Begin collecting samples at BPS+ CLIS. Also coilet BNKG-1 and Prop for sampling. BN1-6-2. Weather: Successfully collect all samples Tide: -3.2 ft at 1341 Crew S. peplinger from this area. 1510 Depart CLIS/BP8 Head to pick up T. DO K. McReak other crew at such end of CL12. N. Maci J. Rherben 1315 Pick up Thai forces. Riose supplies (Windusva) and head back to Harbor Island A. Edgington manna. B. Church. 1600 Amive at Harber Island Marina. A. Vandenvert Olflood Supplies. Attauley B. Berggust 1615 Oren departs. End of field day Recher Crawford 2 (cleanings) Remy Mathonnet Pek Jenhins ((Granty 5: perpir 32 2018 Jeff Wilson 1030 Depart Harbor Island Manna Suranne + Thai's crews on boat of Peter kate on Boat of Jeff unloon. 1033 Candult HRS briefing Simples remaining: CLOS/BP3, CLI2, CLIA, CLIO/BPG, and one sample at each of CLO4+CLOS. Rite in the Rain.

14 S. Replinger 156-16-2018 1950 Arrive at Samend of CU12. SR, MM, RM, and Alt begin collecting Samples 1140 Finish collecting Samples at CL14. All 9 samples collected successfully 150 Bout armes. Wash supplies and head downstream to CLIO/ BPG. 1205 Amre at CLIO/BPG to collect 6 clam samples and 9 BP Jamples (+FD) 1335 Depart CLIO/BPG. Successfully Collected all samples. Head to collect I sample each at CL04 + CL05. 1345 Arrive at CLOG Collect one sample. 1355 Depart CLOG and head to CLOS. 1357 Arrive at CLOS. Collect on sample. 1903 Depart CLOS, Head to recet up in other crews 1455 Armean Son Harber Island Marine Official & wash supplies 1510 are departs End of an-water time. 5. pepling 6.16.2018 Rite in the Rain

Photos











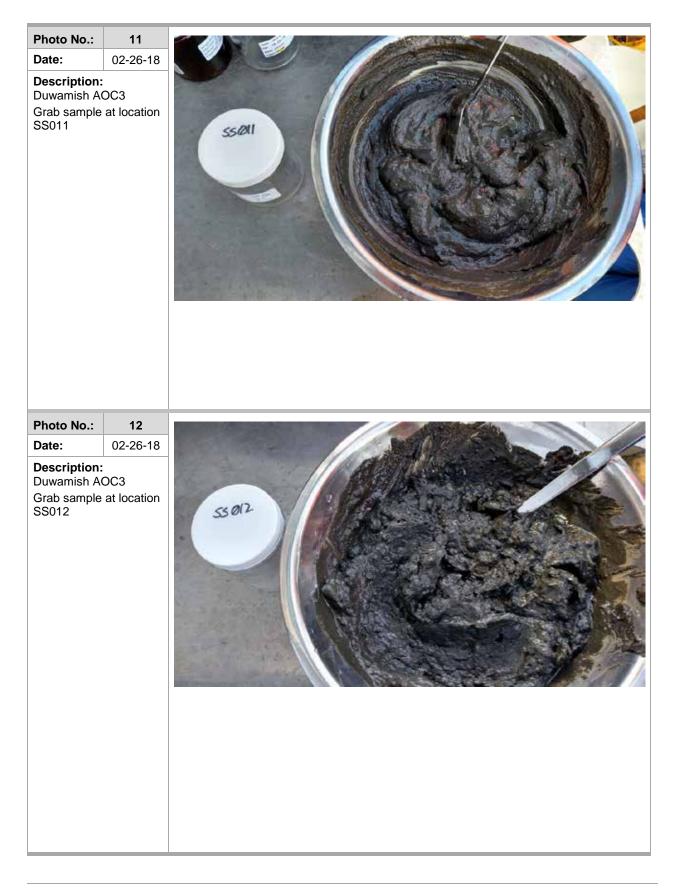


















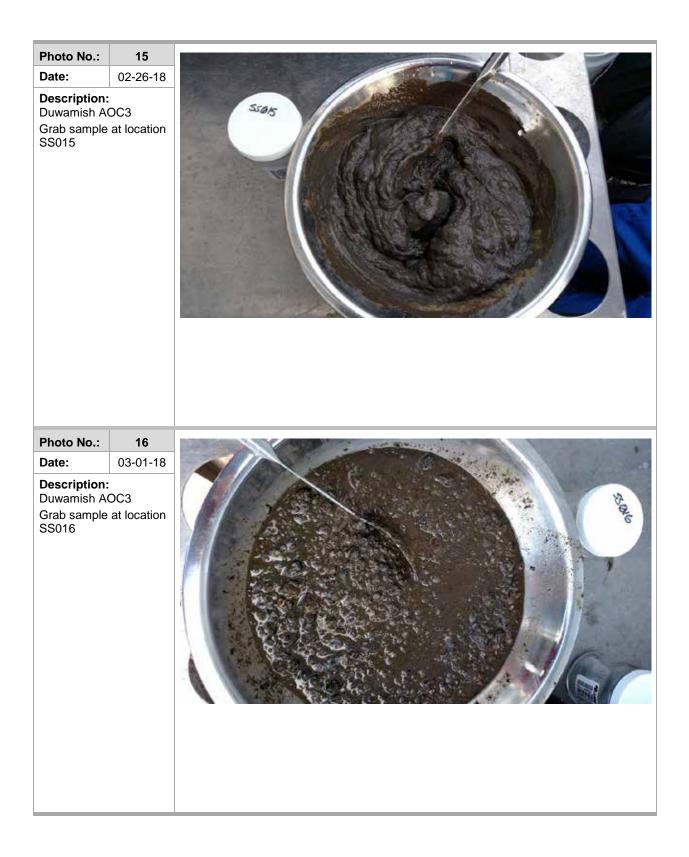




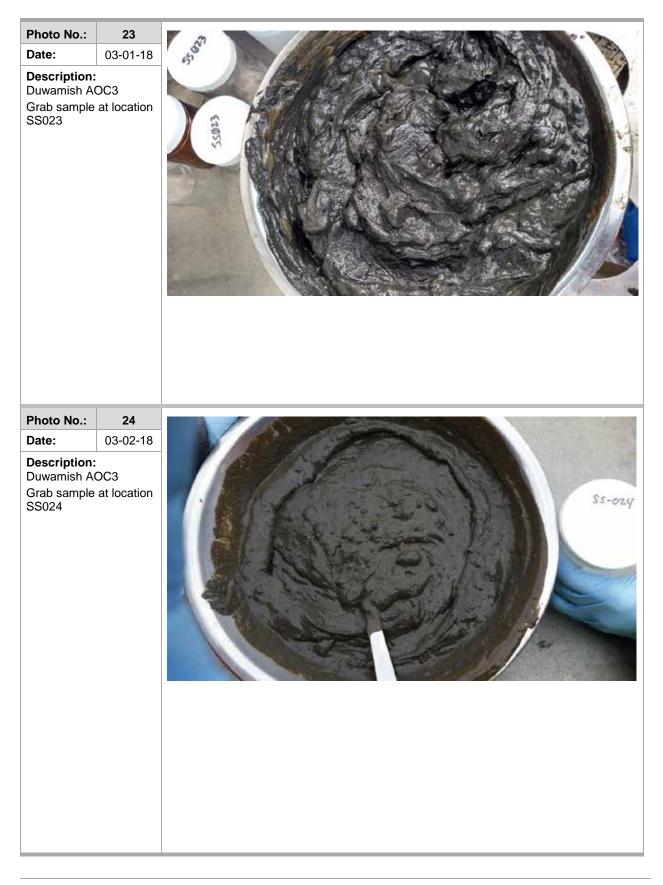






Photo No.:	21	
Date:	03-02-18	Har-SZ
Description: Duwamish Ad Grab sample SS021	DC3	
Photo No.:	22	No photo available
Date:	03-02-18	
Description: Duwamish Ad Grab sample SS022	DC3	









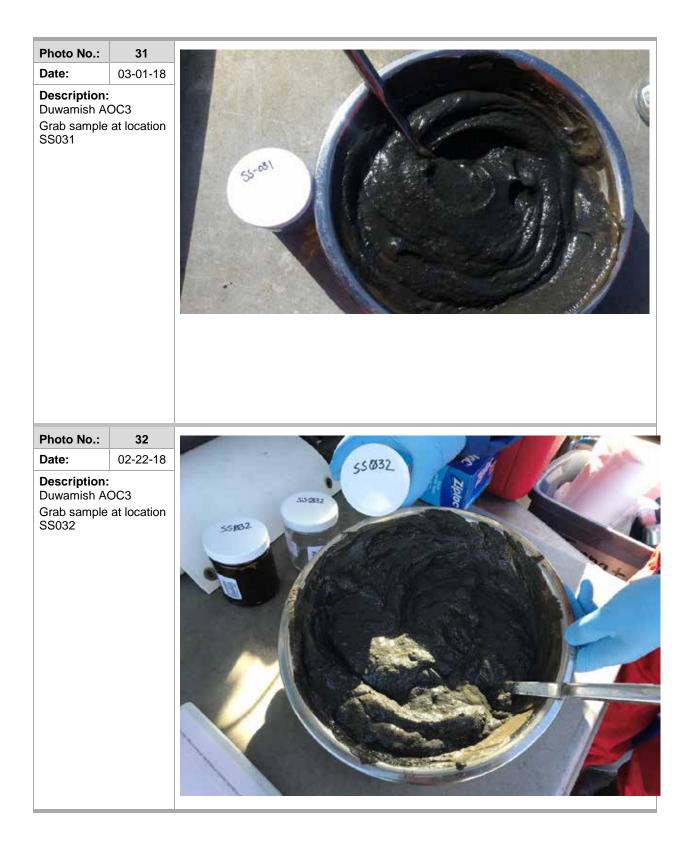












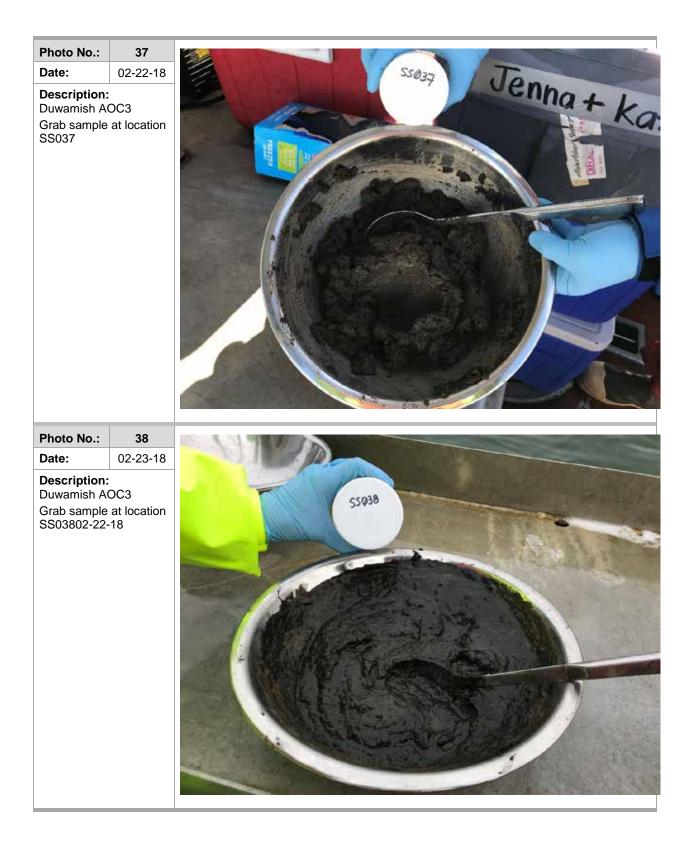




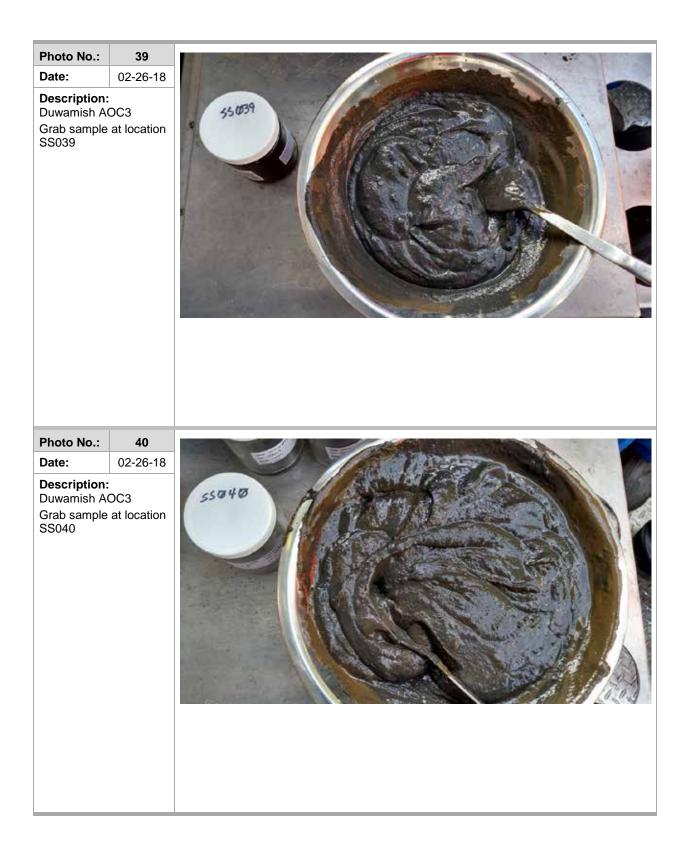




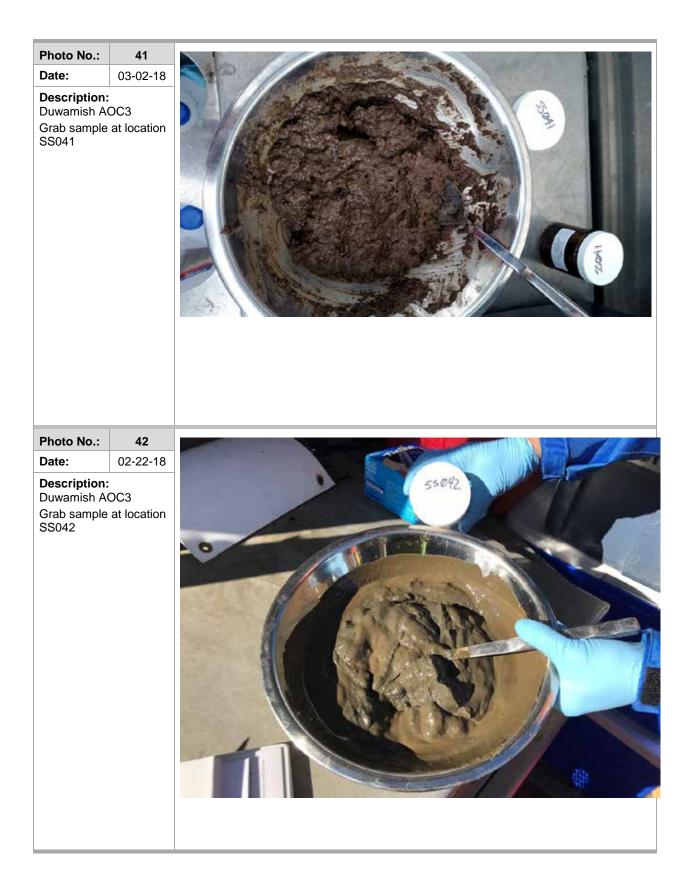




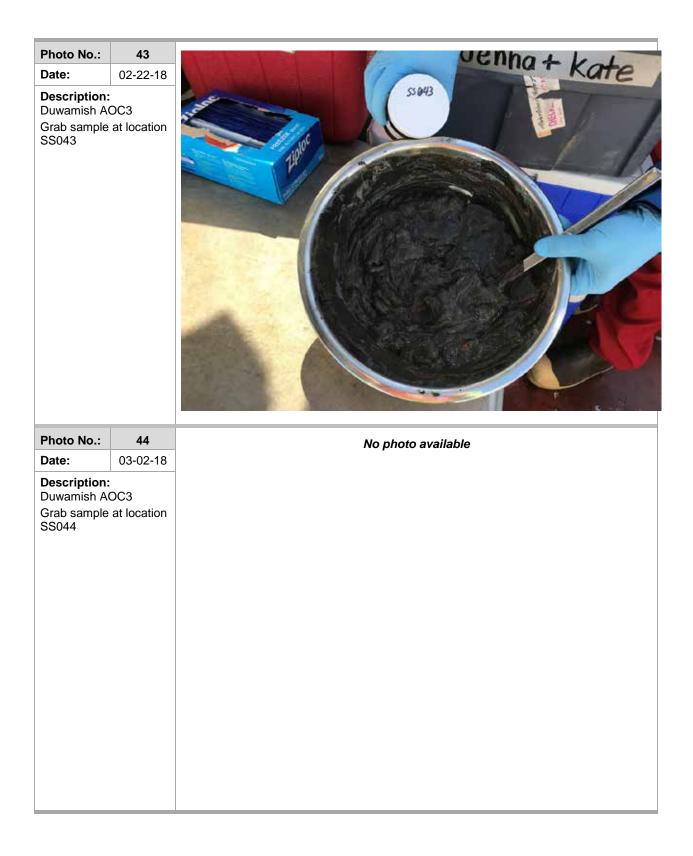




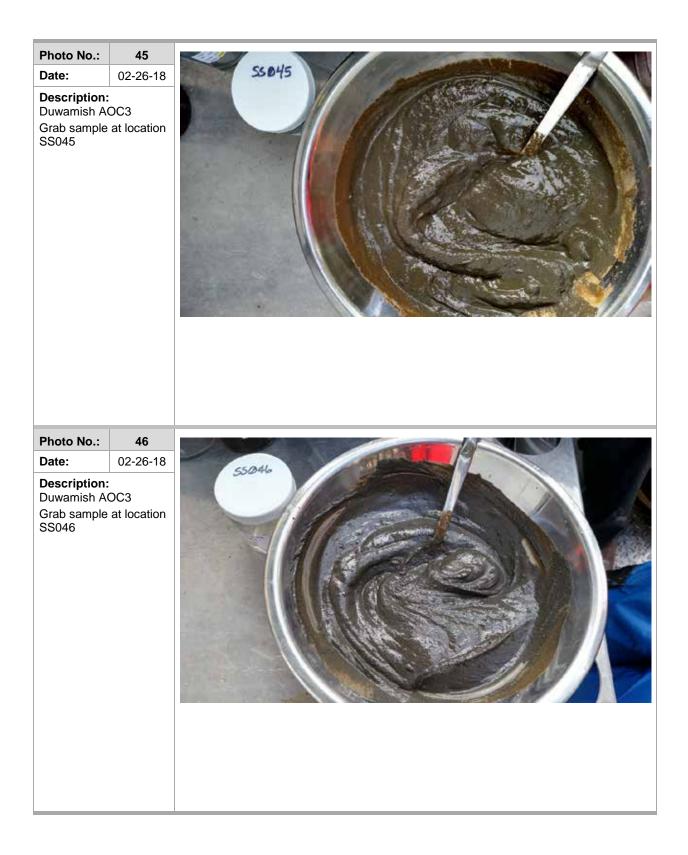




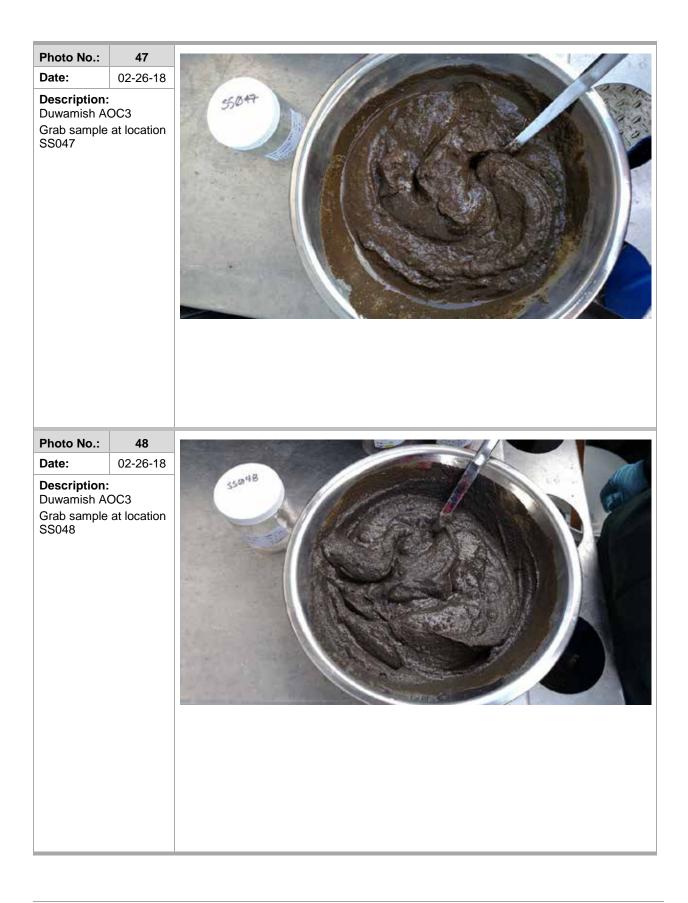




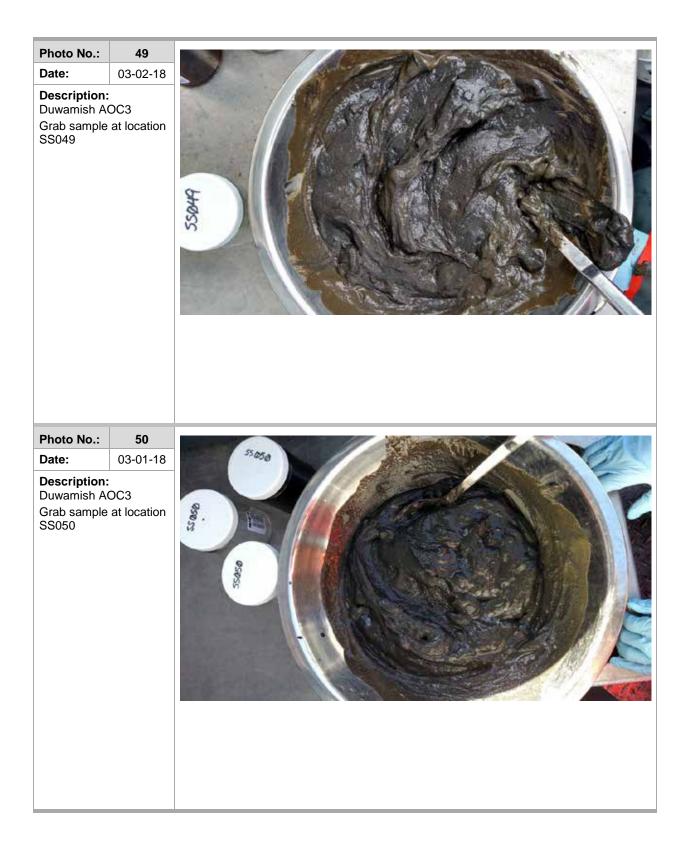














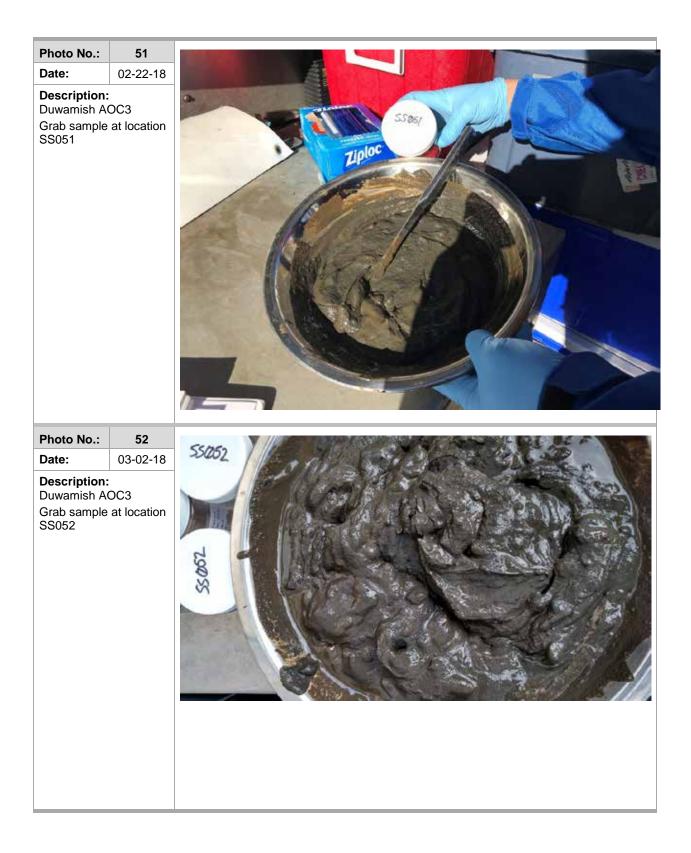
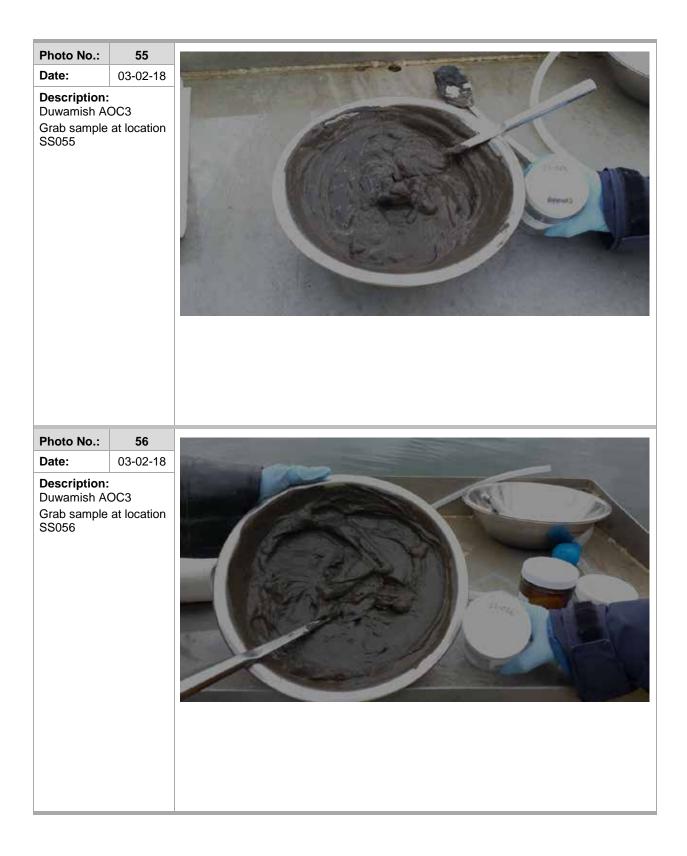




Photo No.:	53	
Date:	03-02-18	
Description: Duwamish A0 Grab sample SS053	DC3	
Photo No.:	54	No photo available
Date:	03-02-18	
Description: Duwamish Ad Grab sample SS054	DC3	

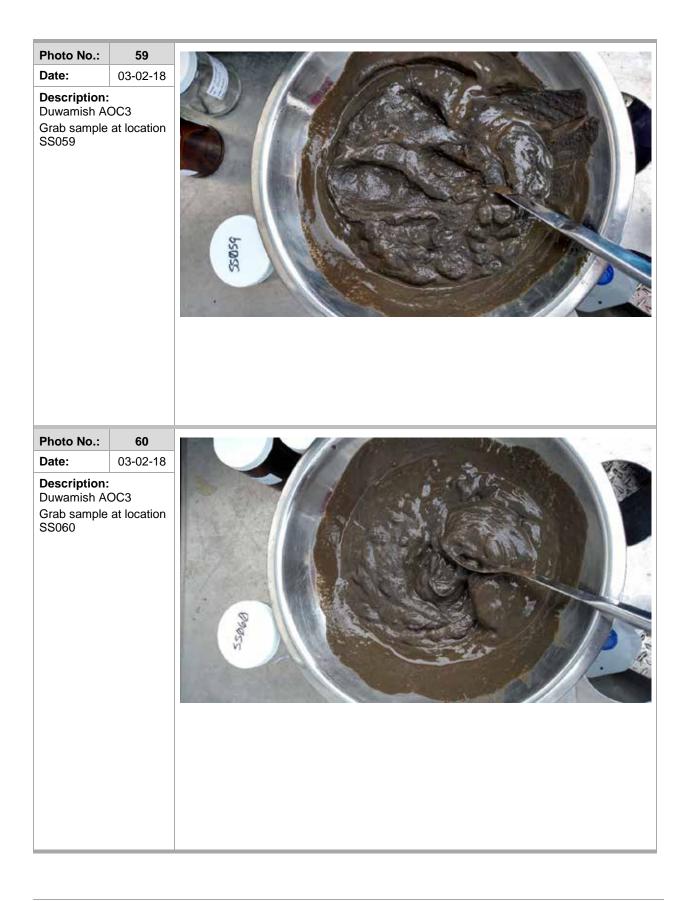




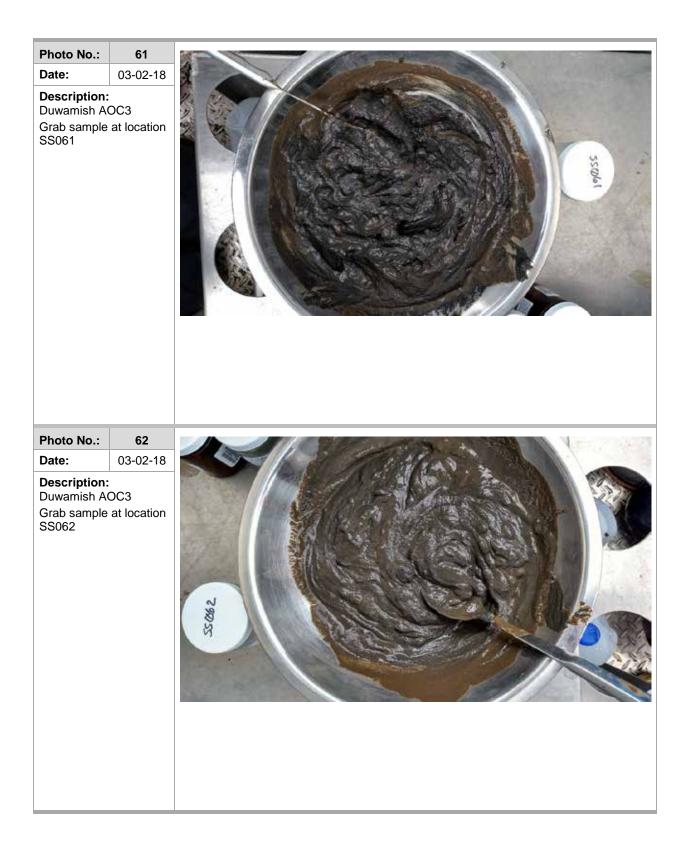




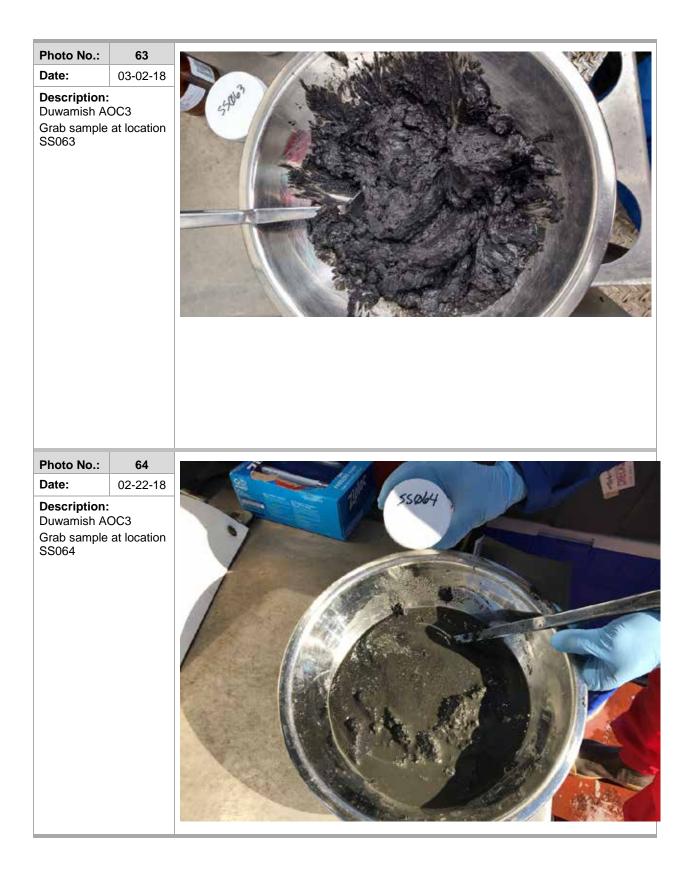




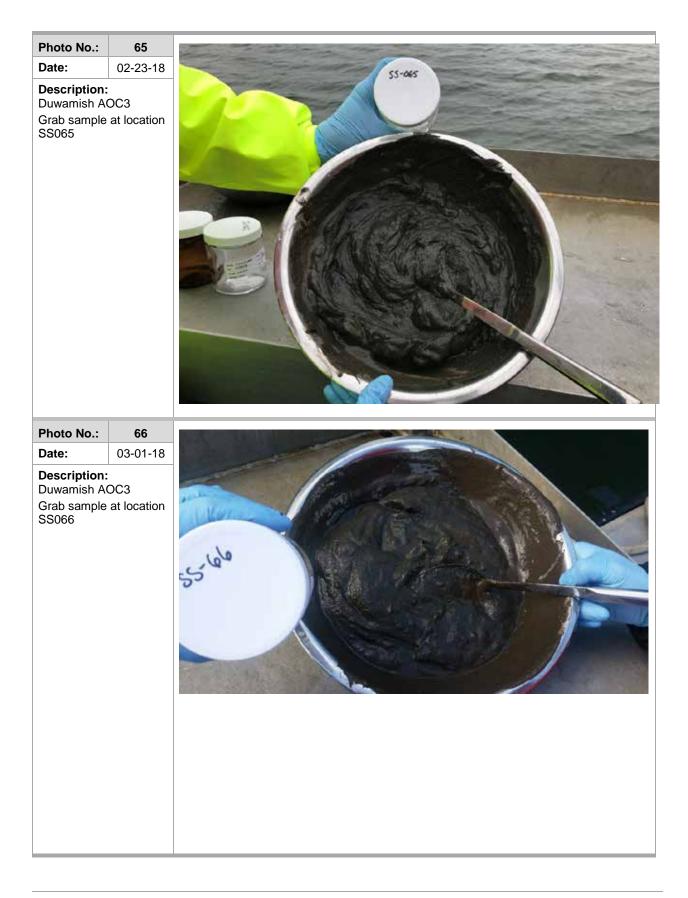














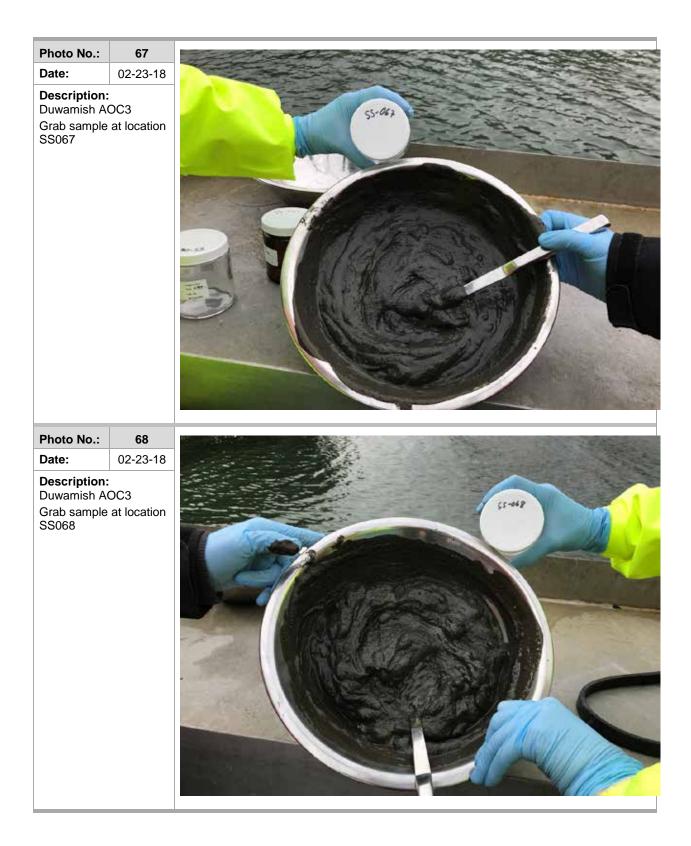


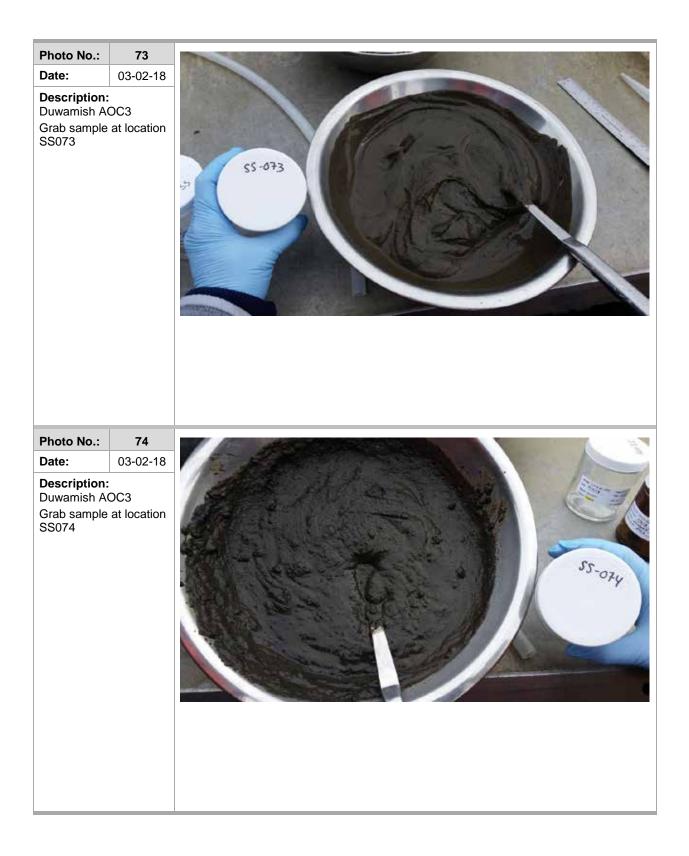


Photo No.:	69	
Date:	02-22-18	
Description: Duwamish A0 Grab sample SS069	OC3	
Photo No.:	70	No photo available
Date:	03-01-18	
Description: Duwamish Ad Grab sample SS070	OC3	















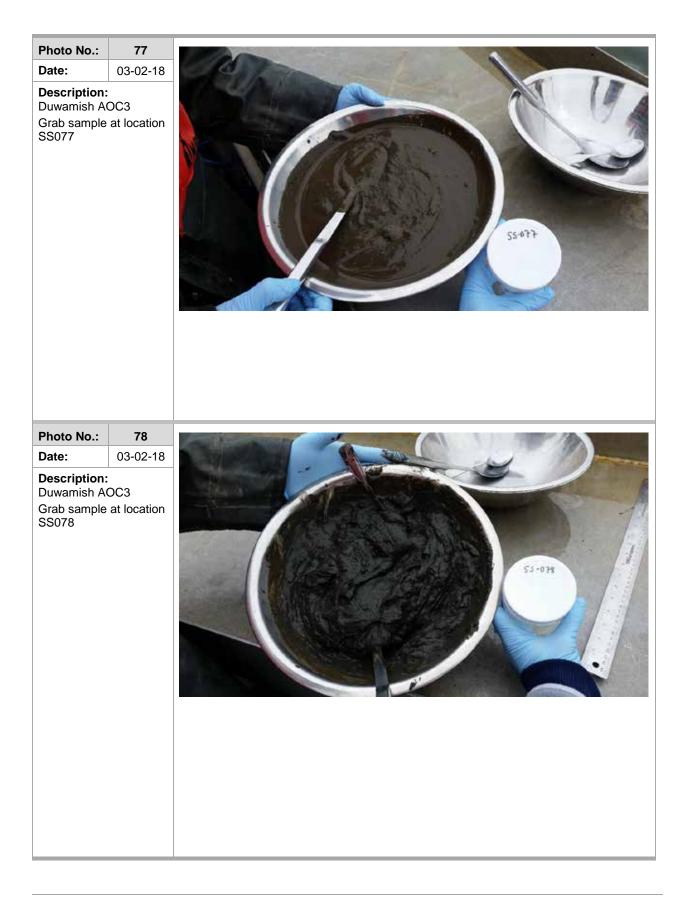
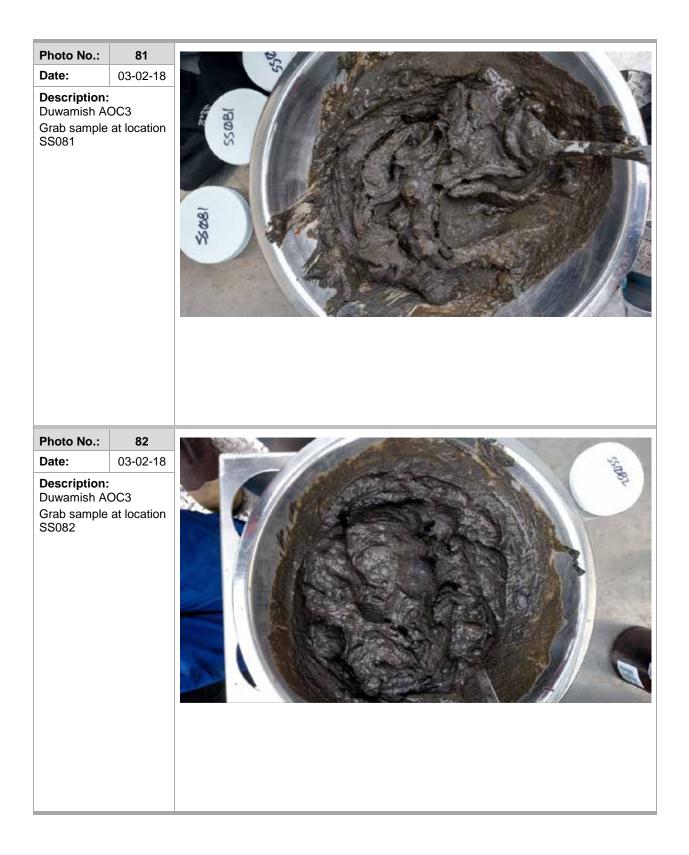


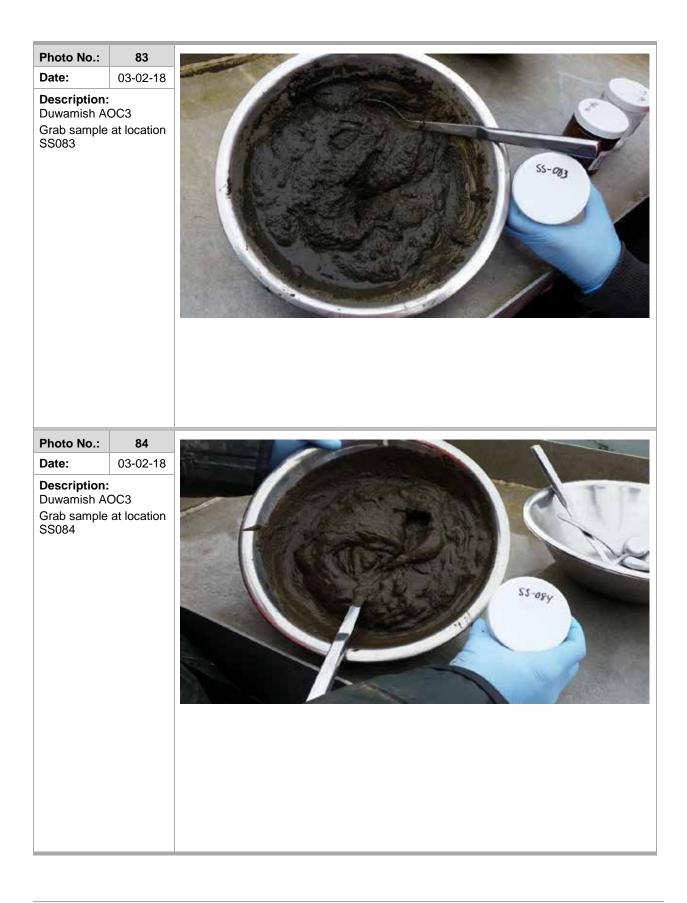


Photo No.:	79	No photo available
Date:	03-02-18	
Description: Duwamish A(Grab sample SS079	DC3	
Photo No.:	80	No photo available
Date:	03-02-18	
Description: Duwamish AOC3 Grab sample at location SS080		

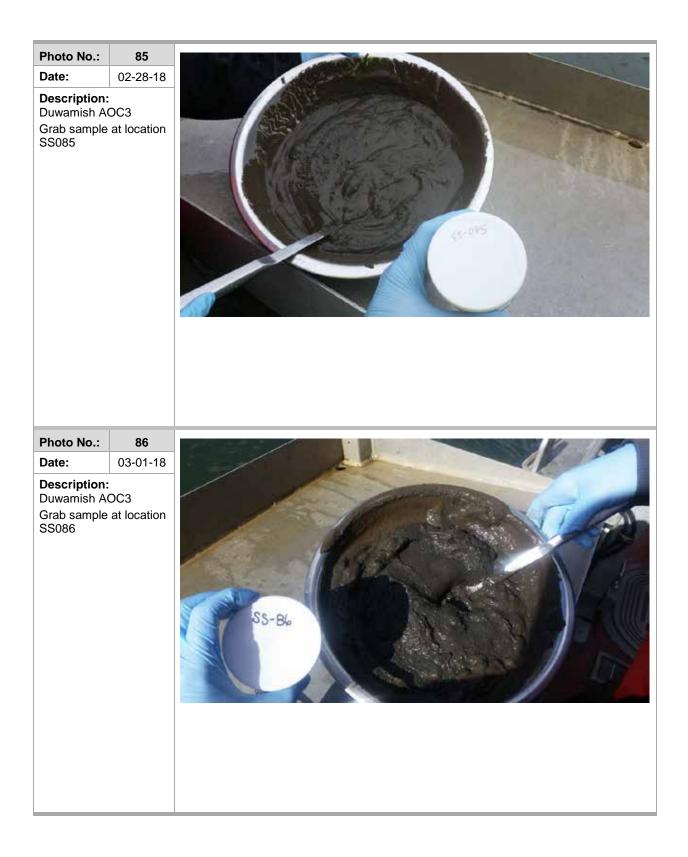
















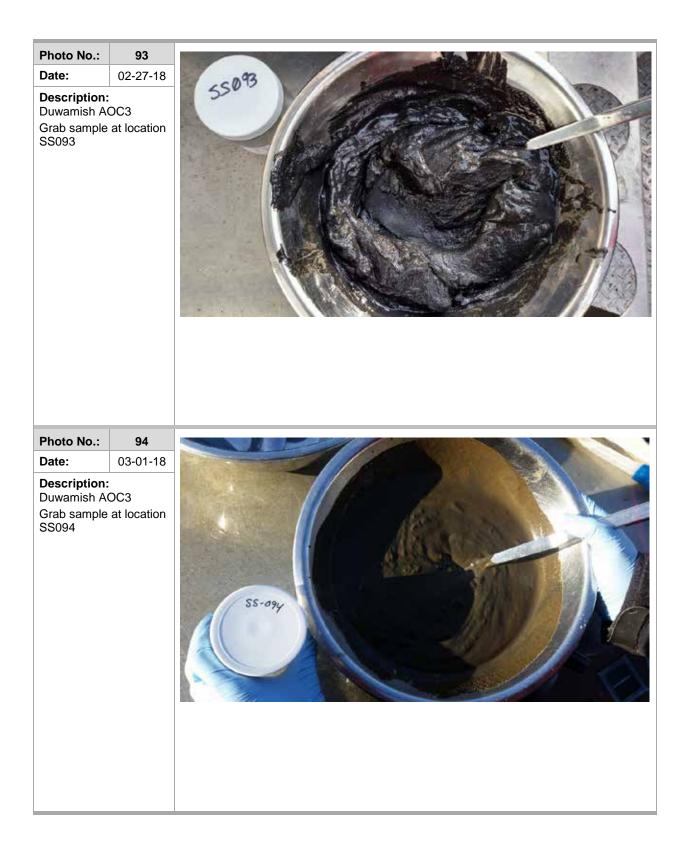










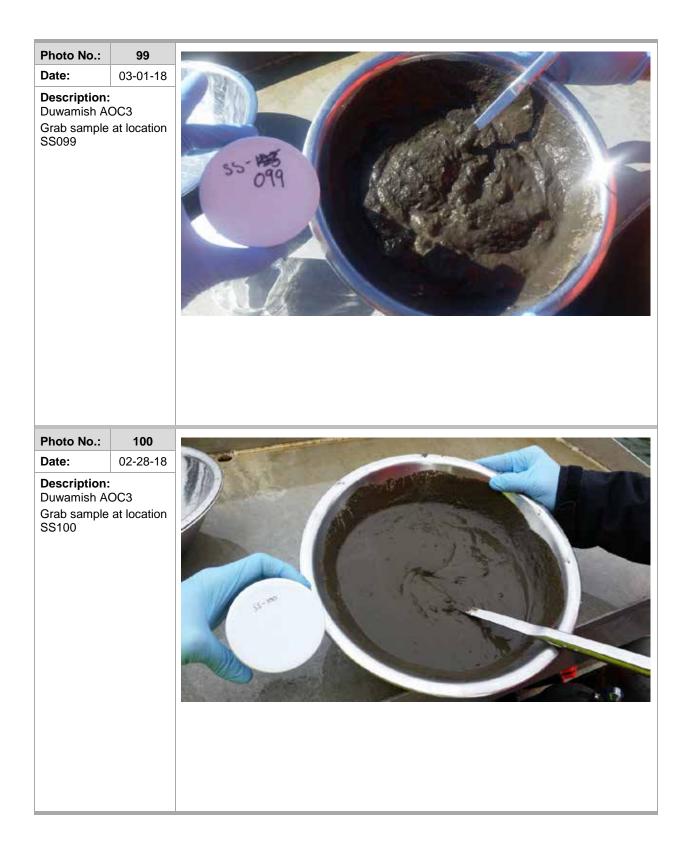




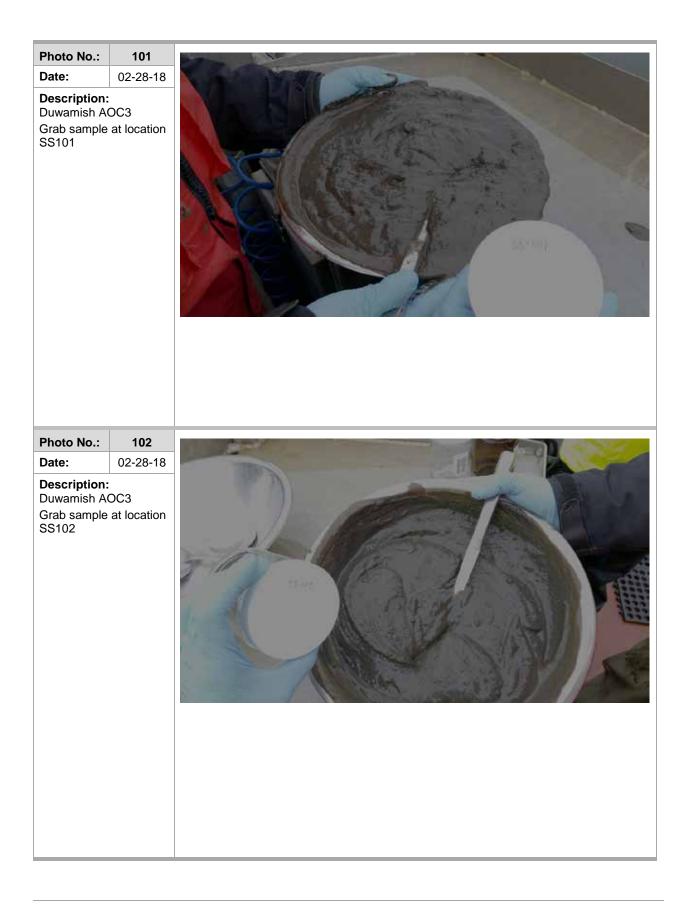








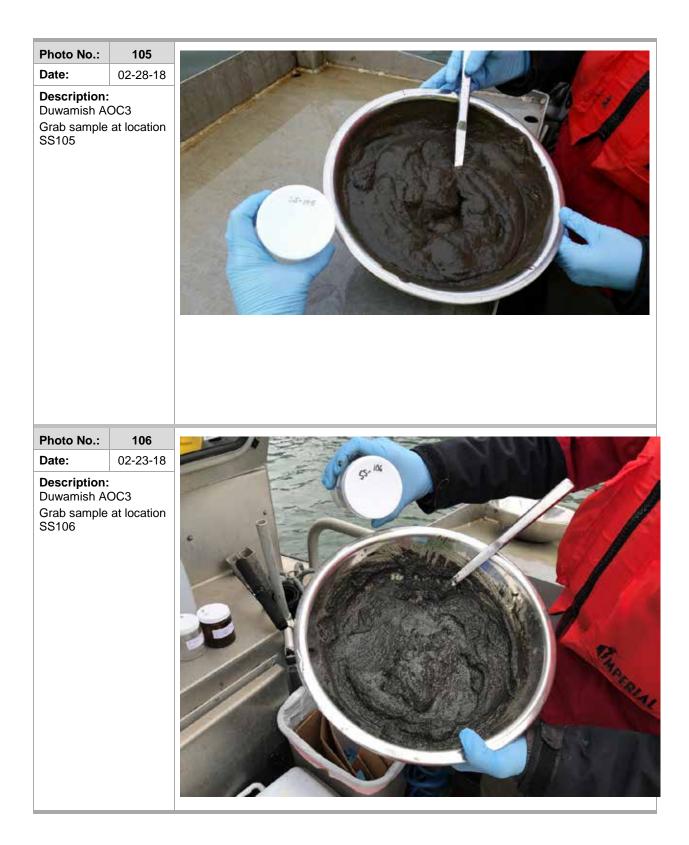




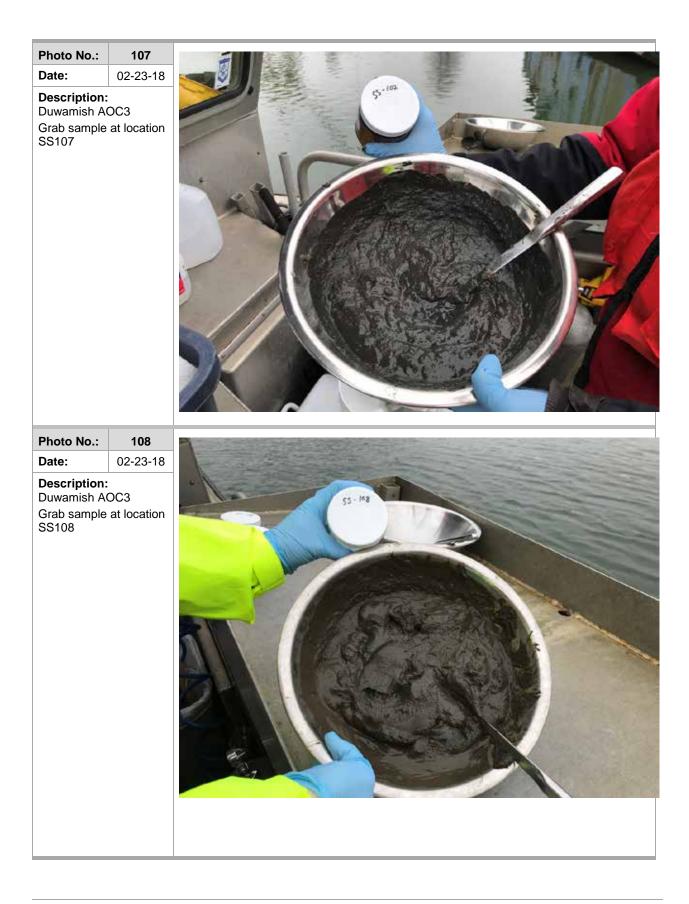




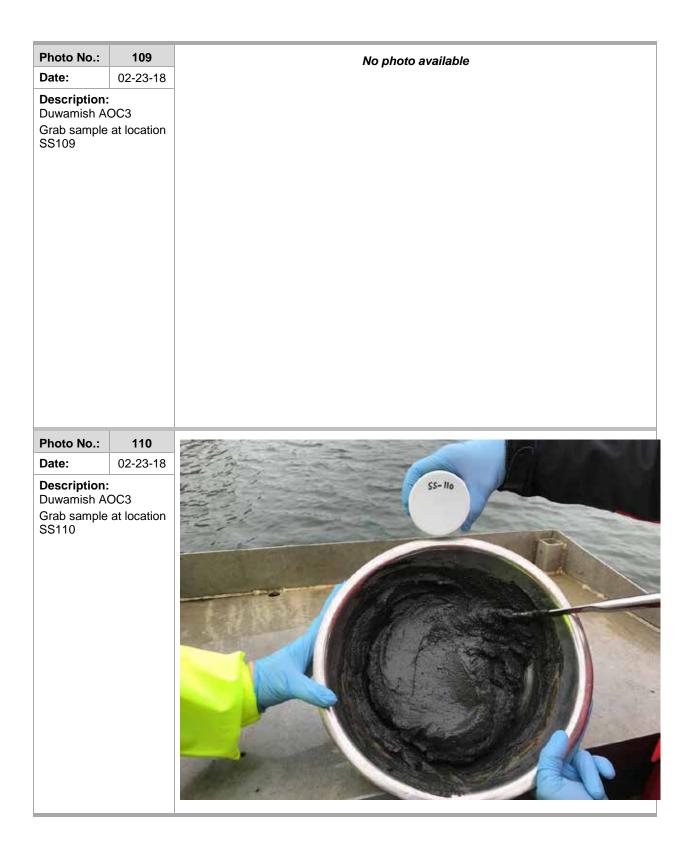




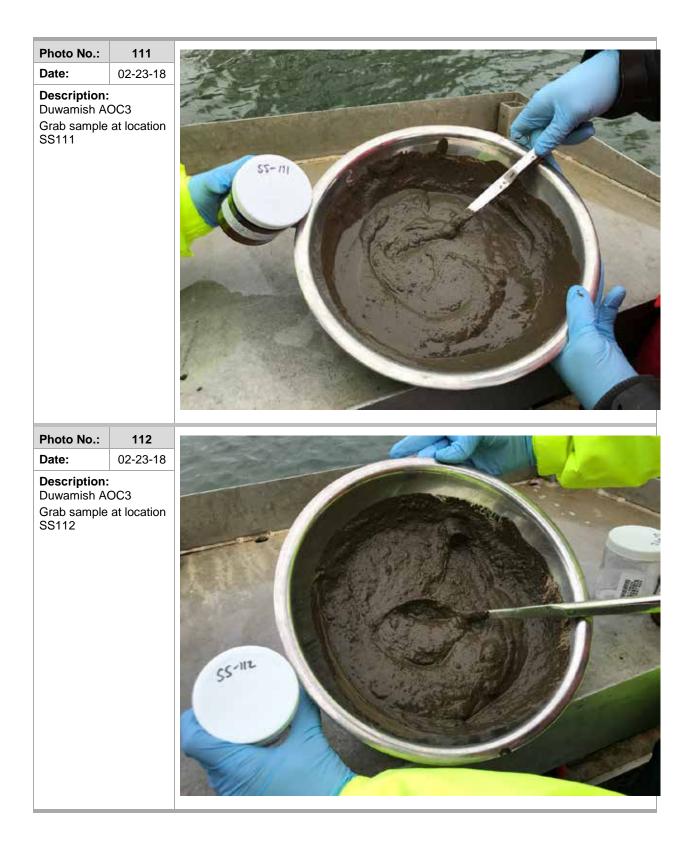








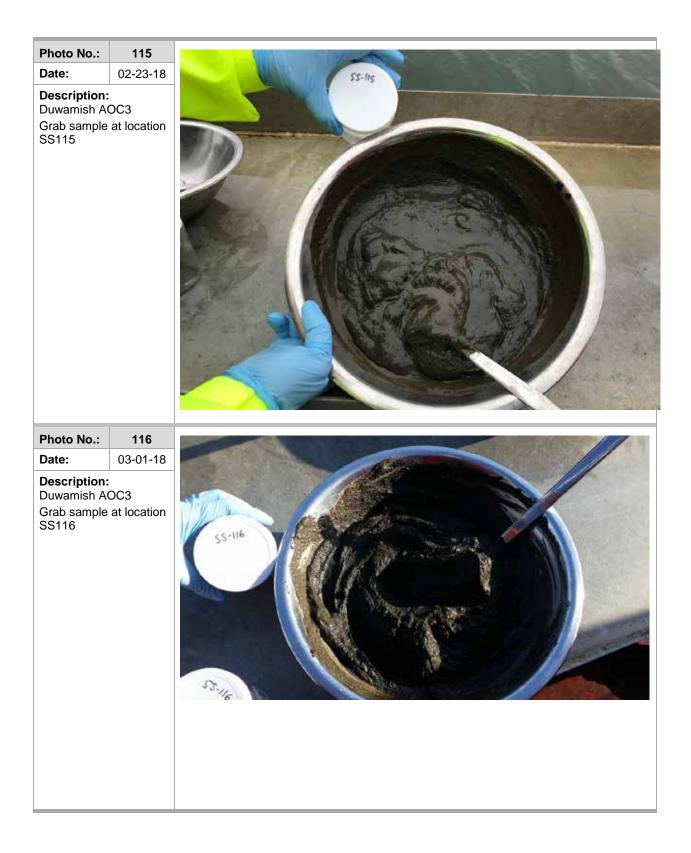








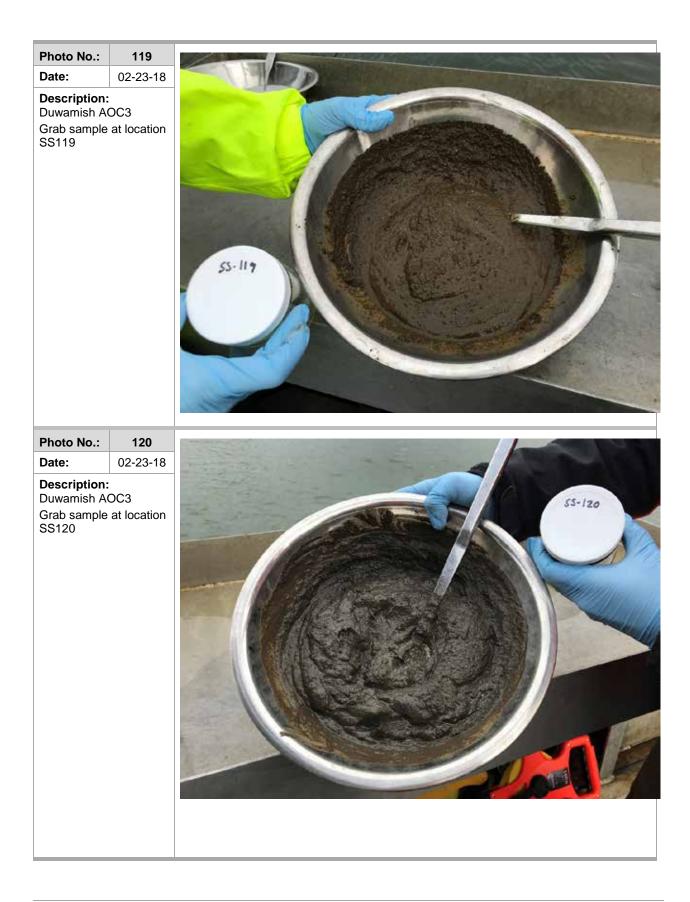




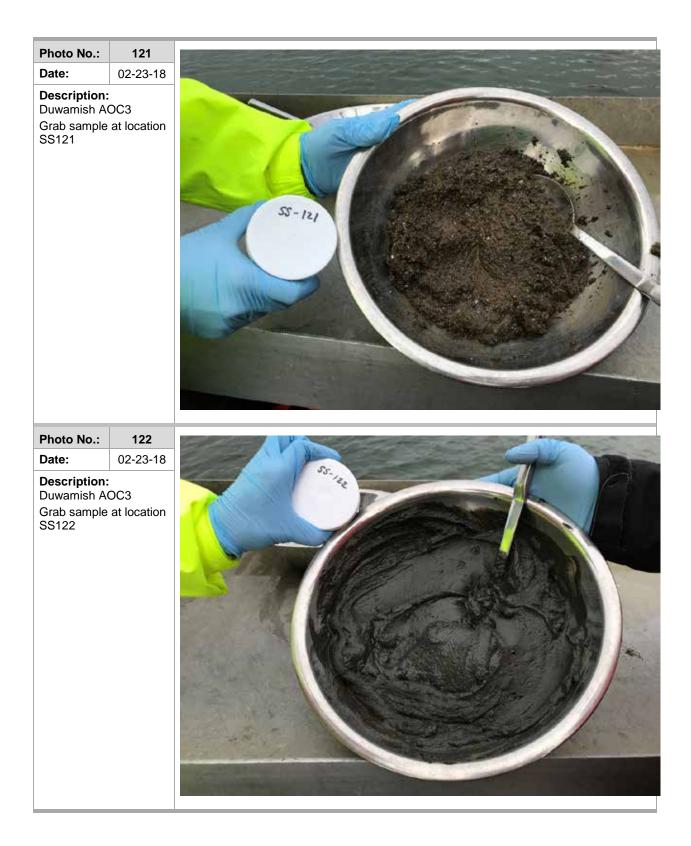




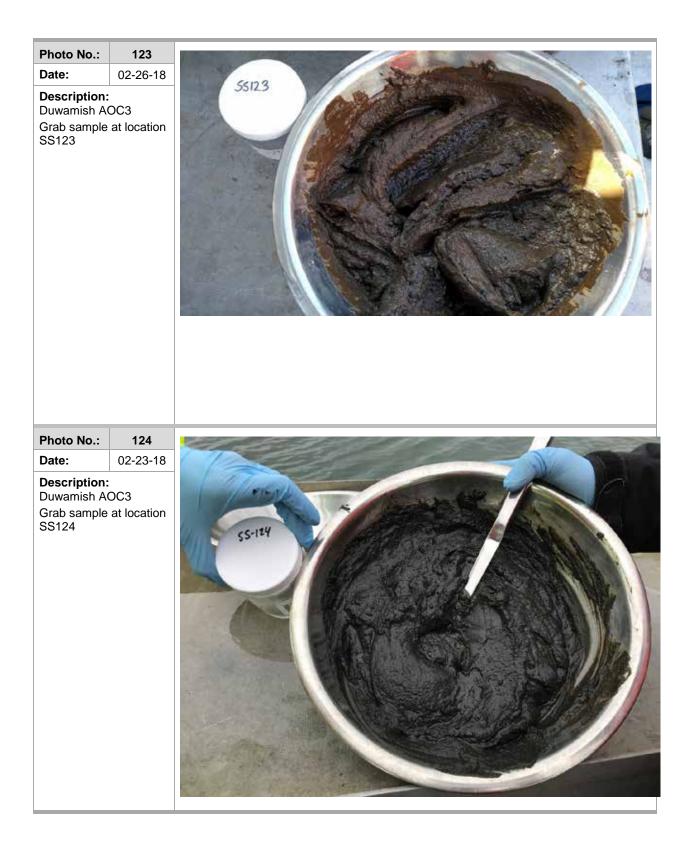




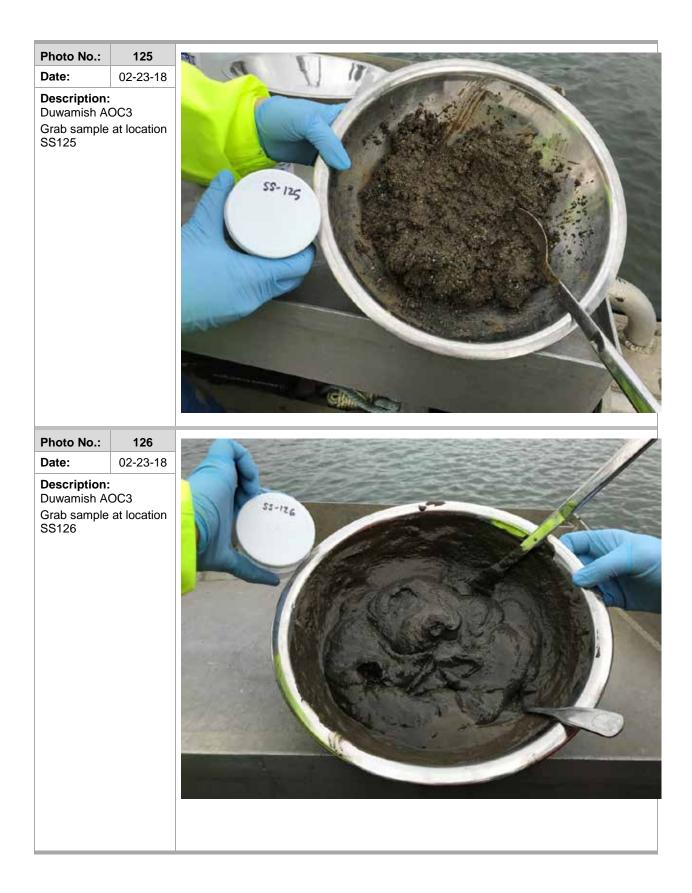








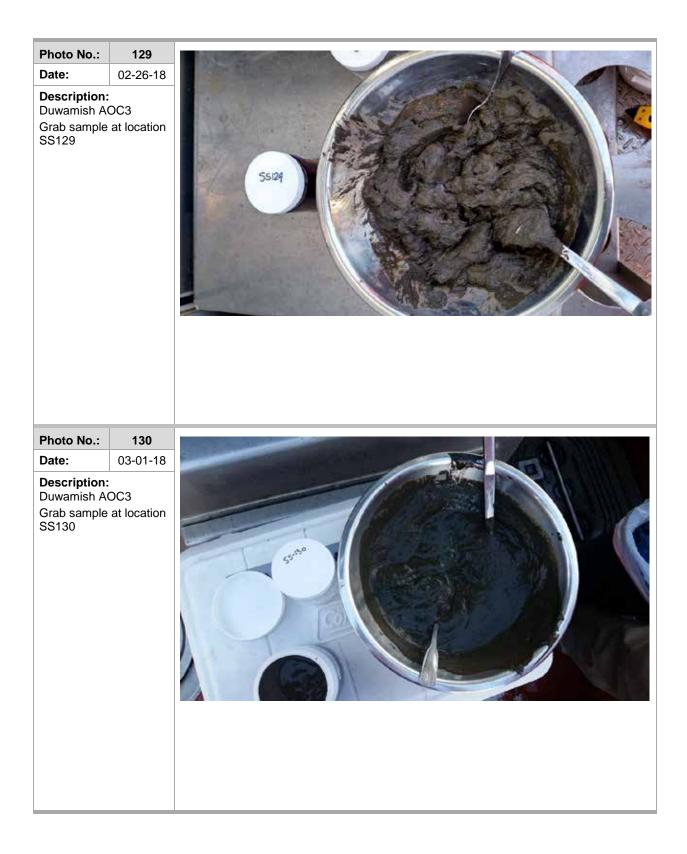




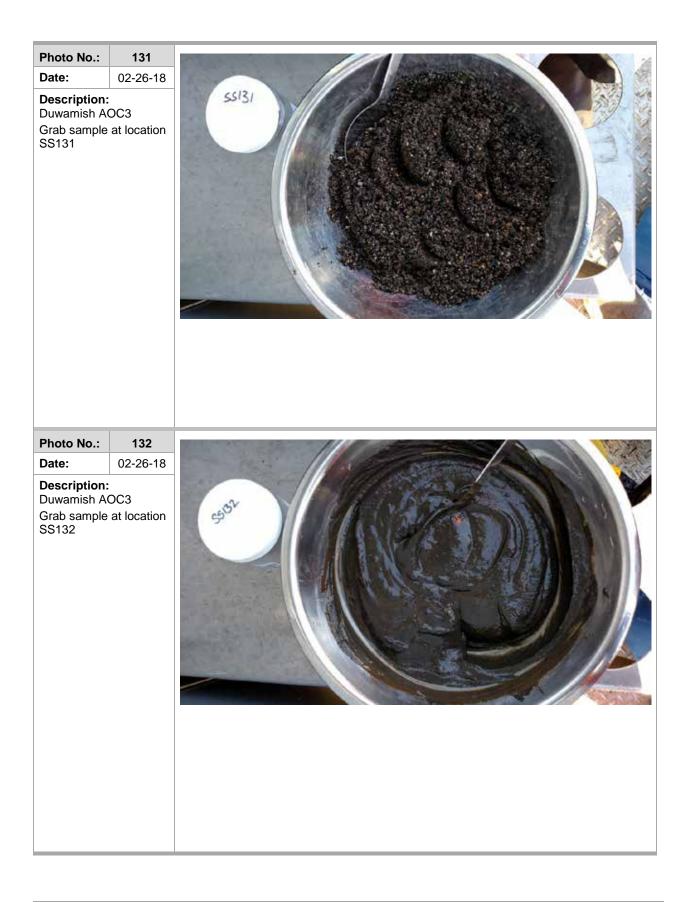




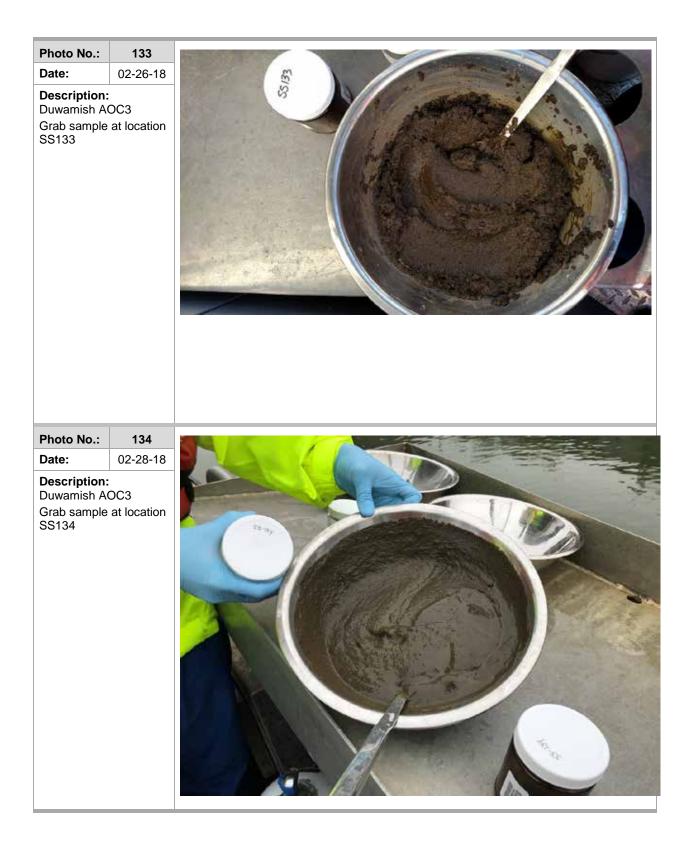




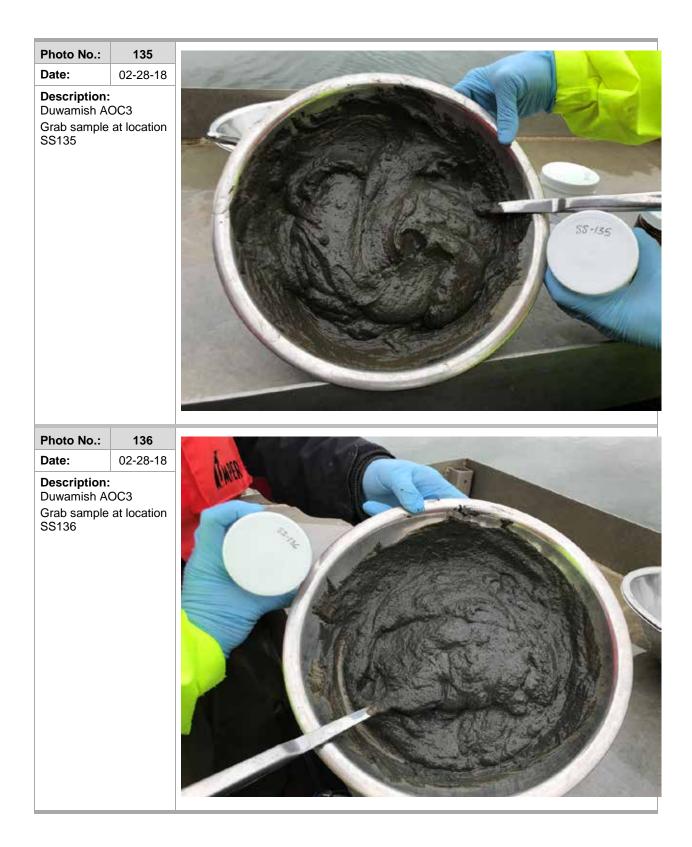




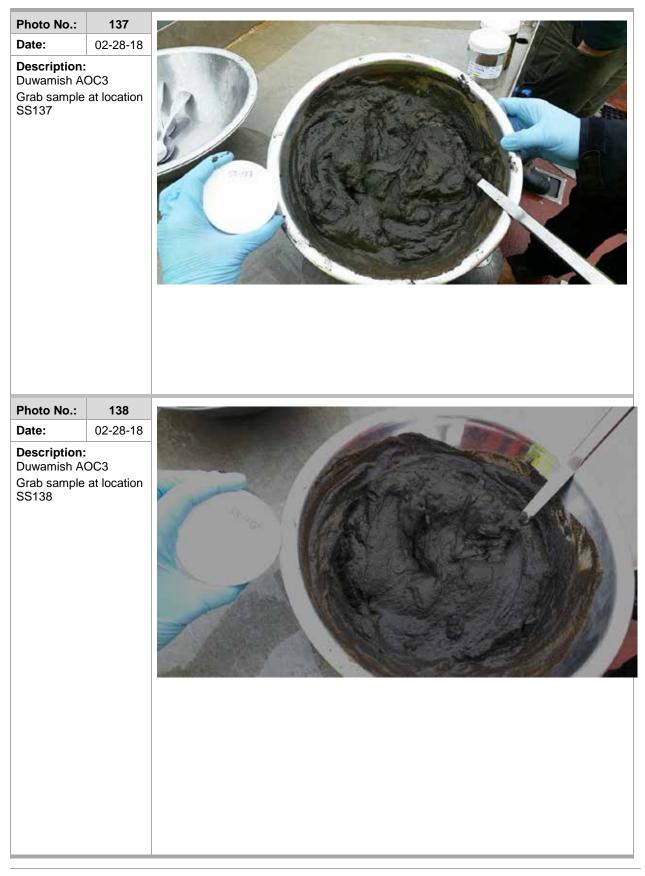




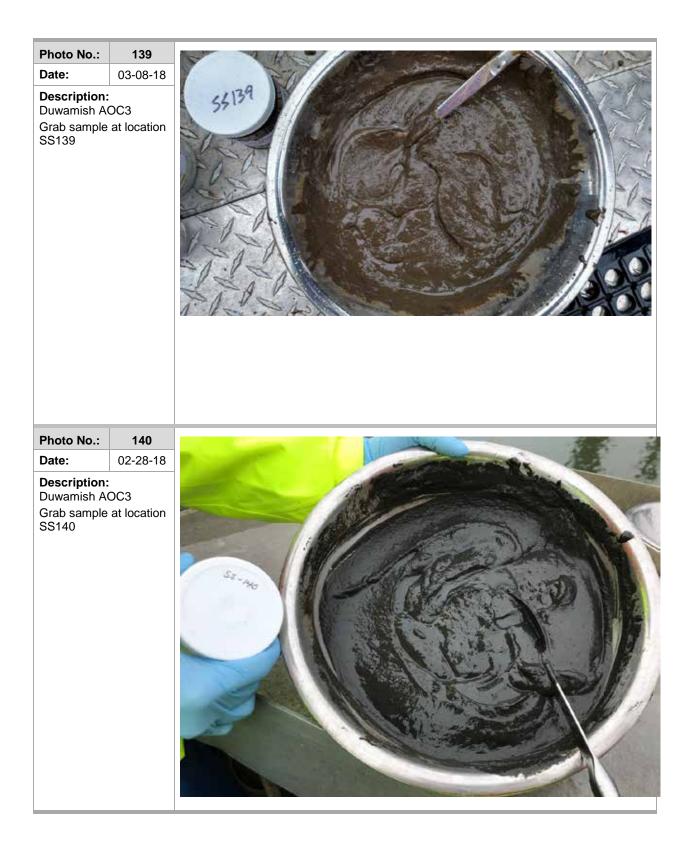




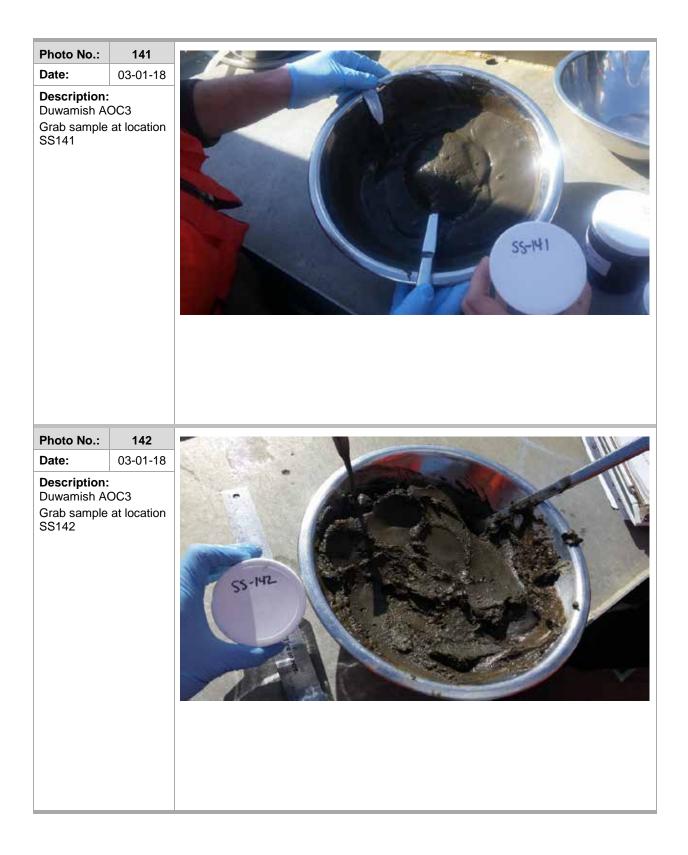




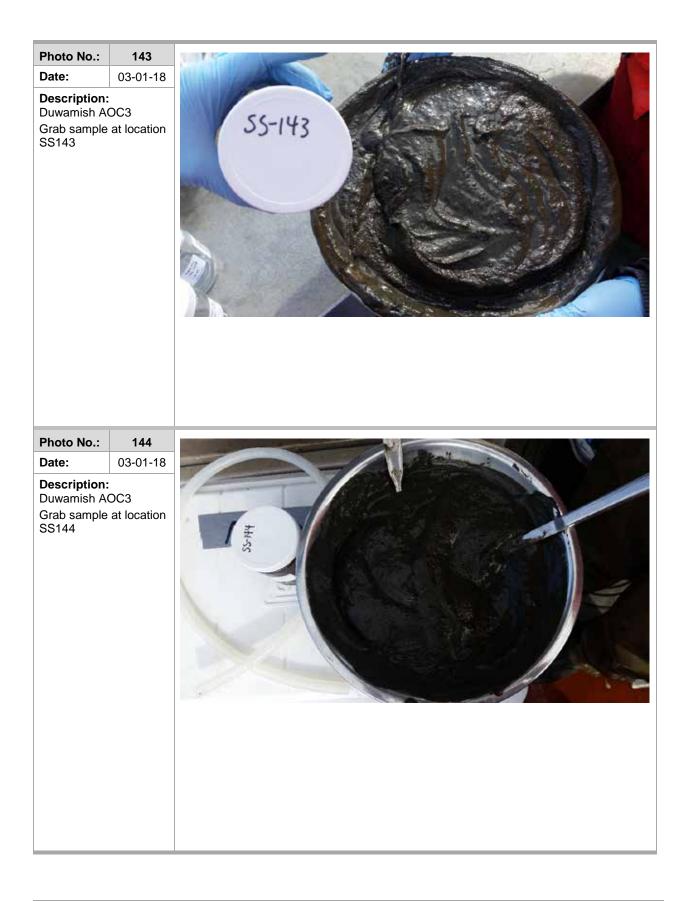




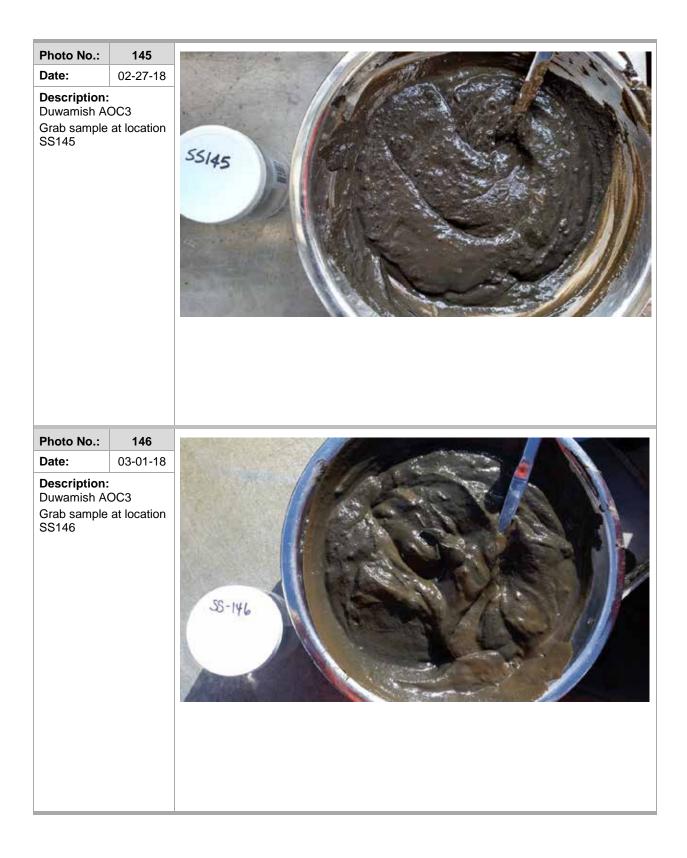








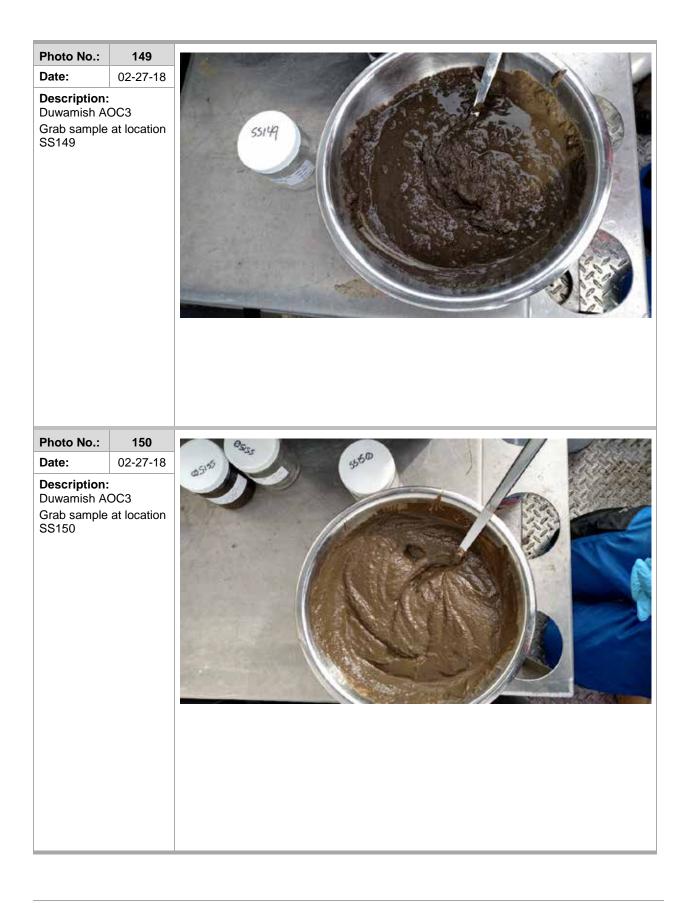




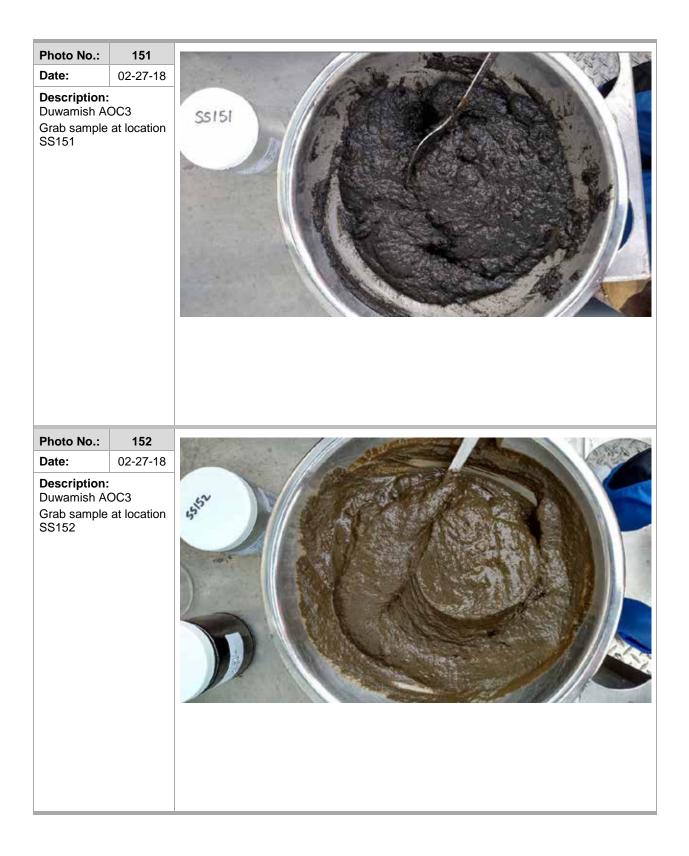




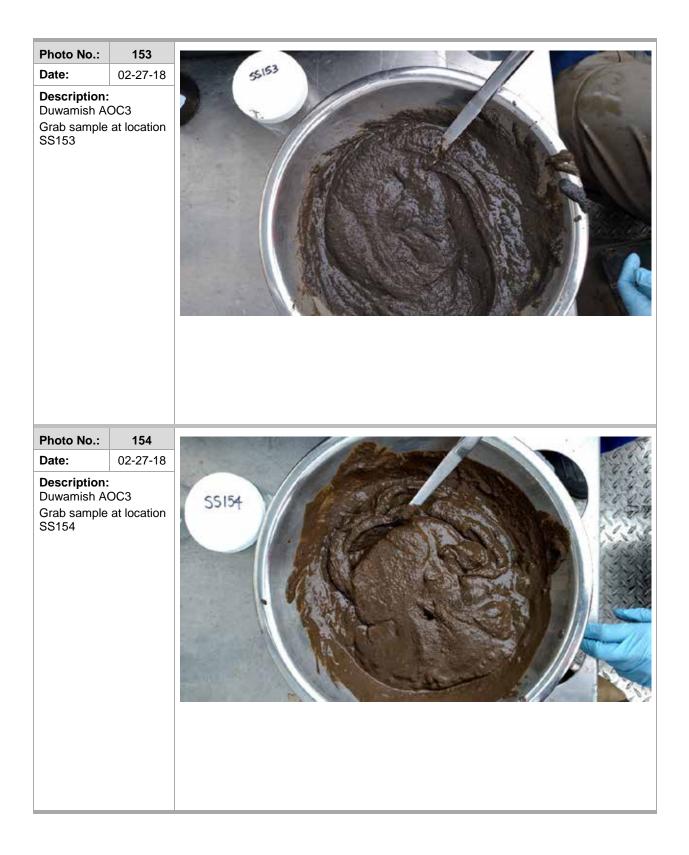




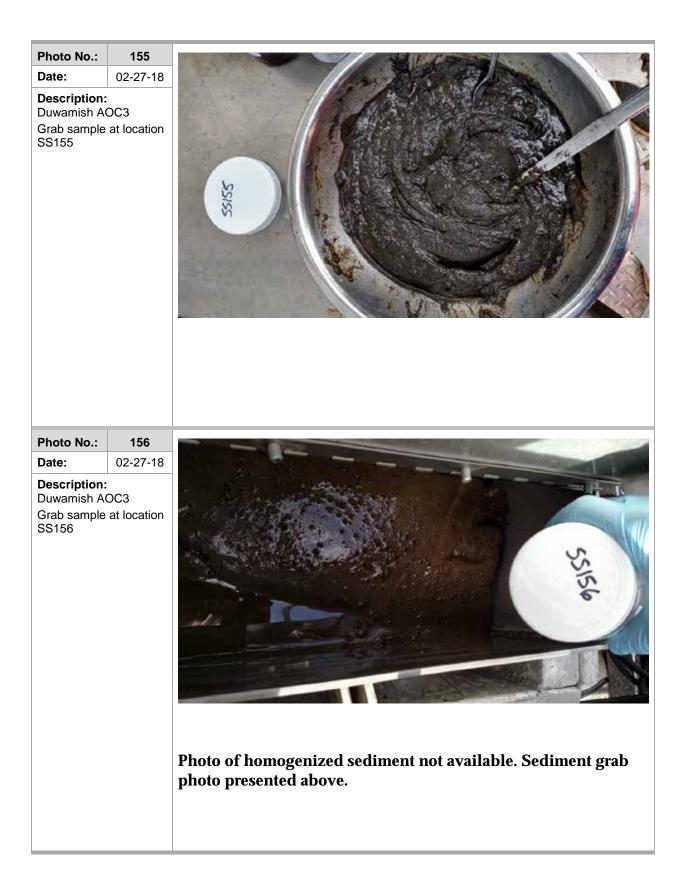




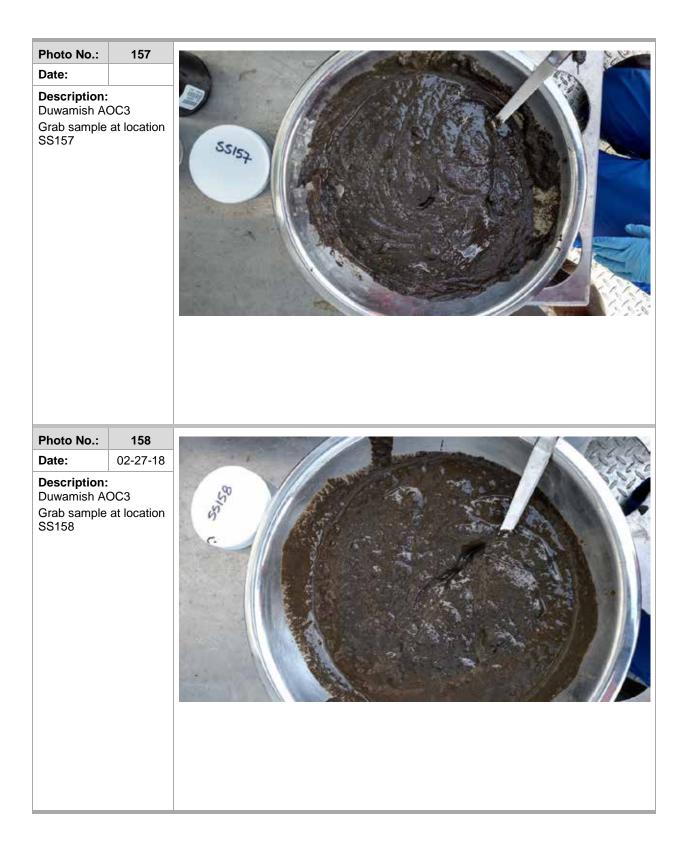




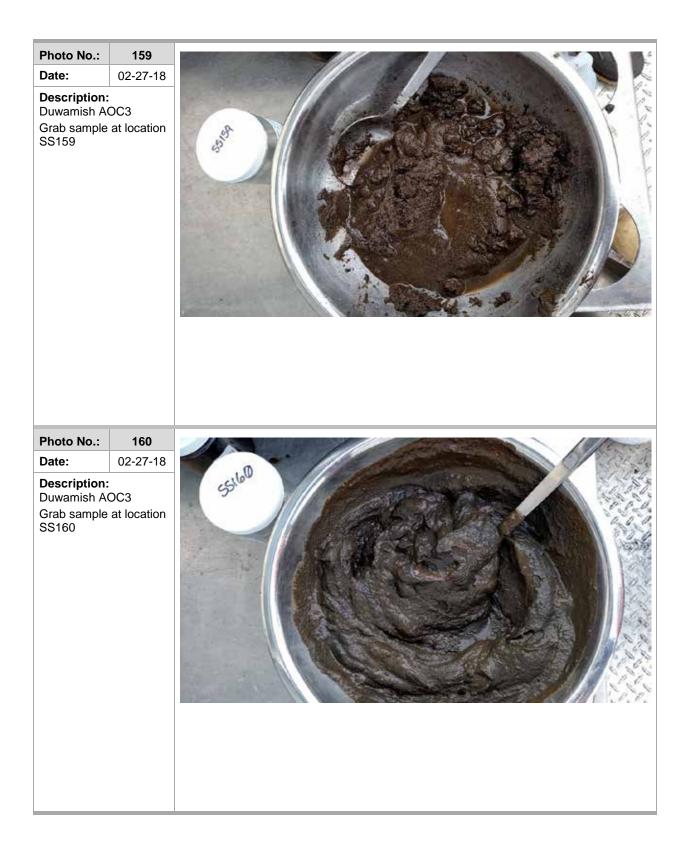




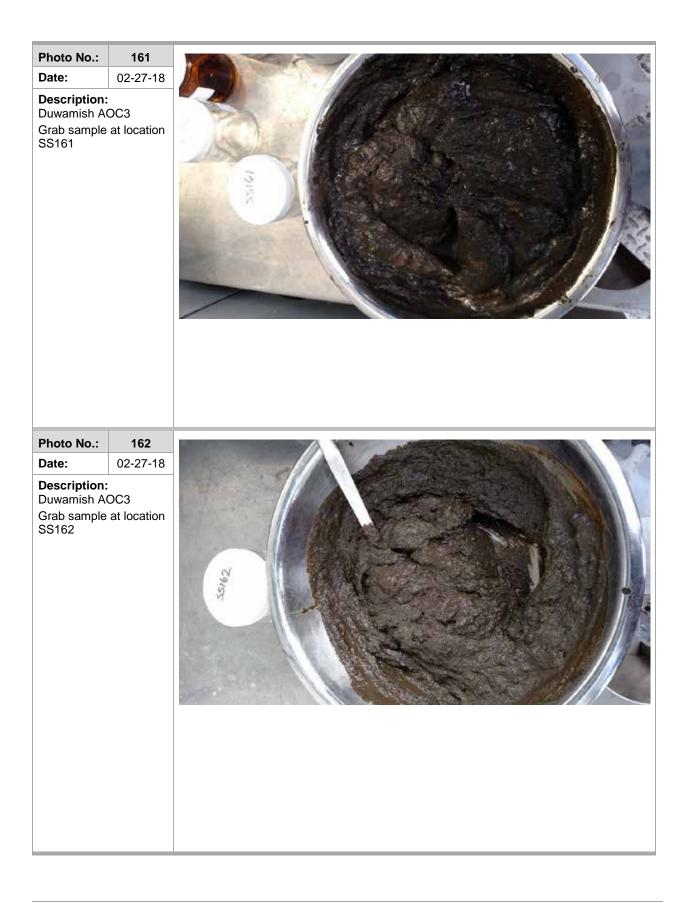




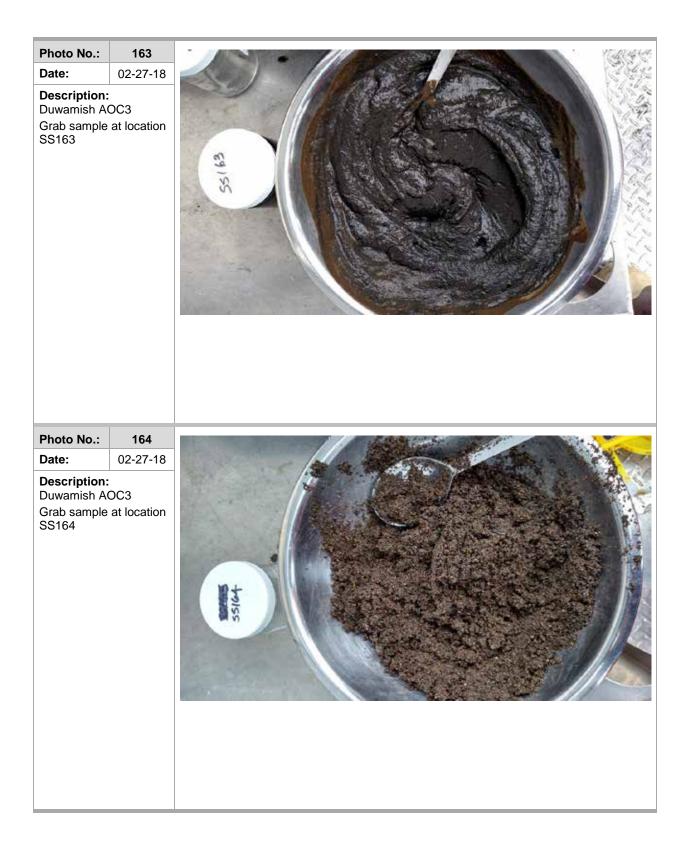












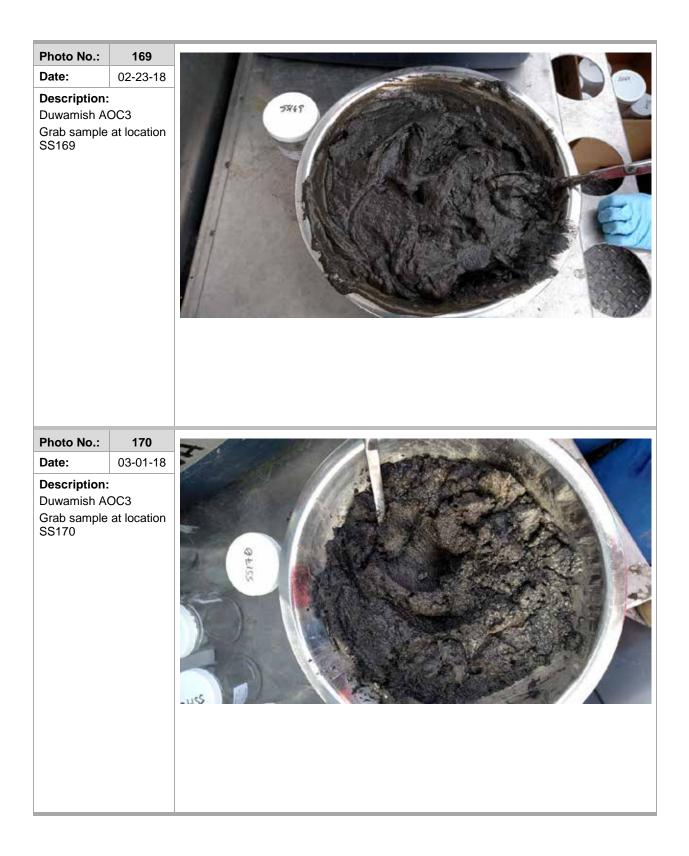




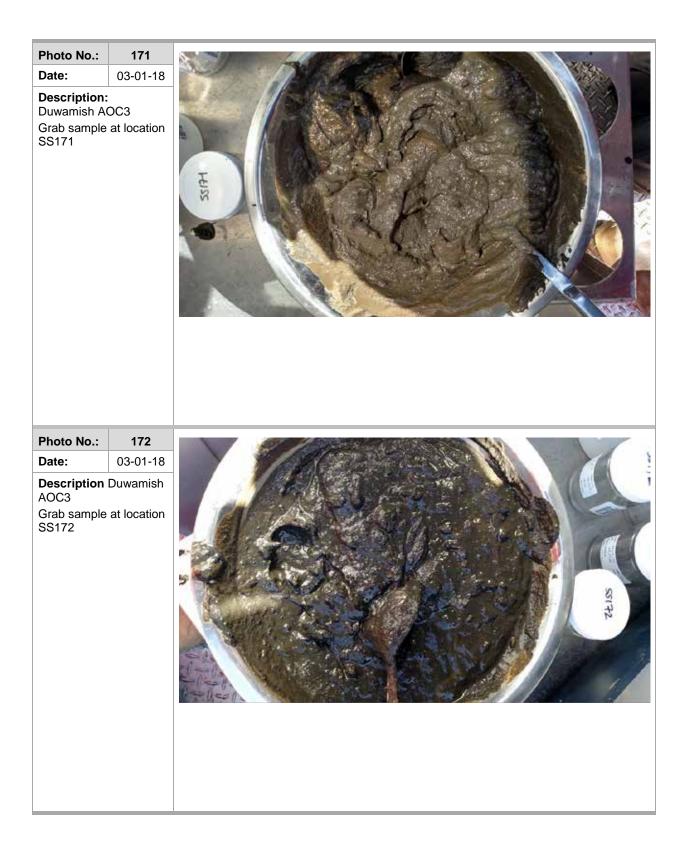




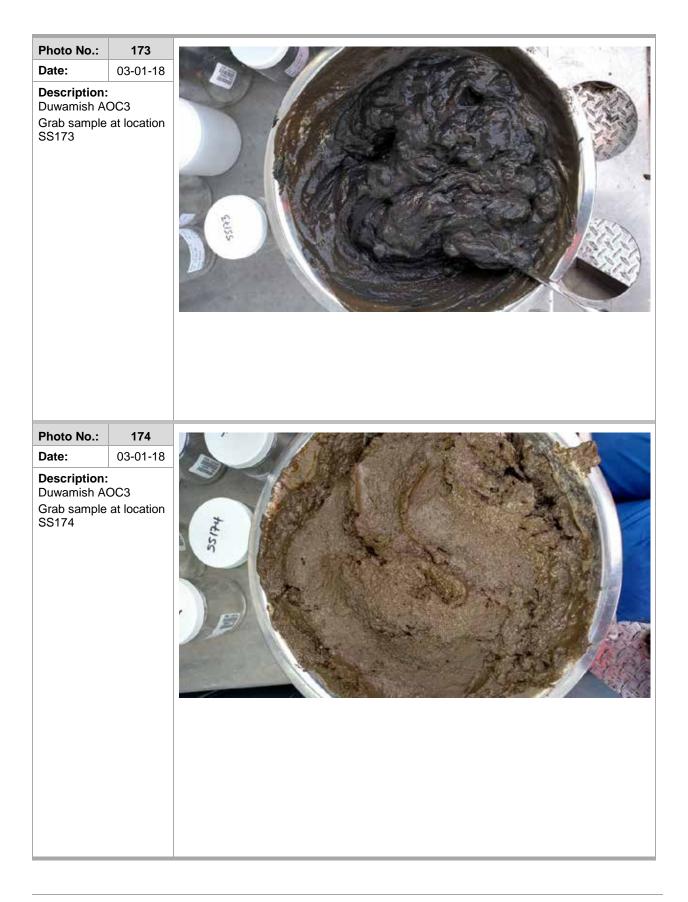




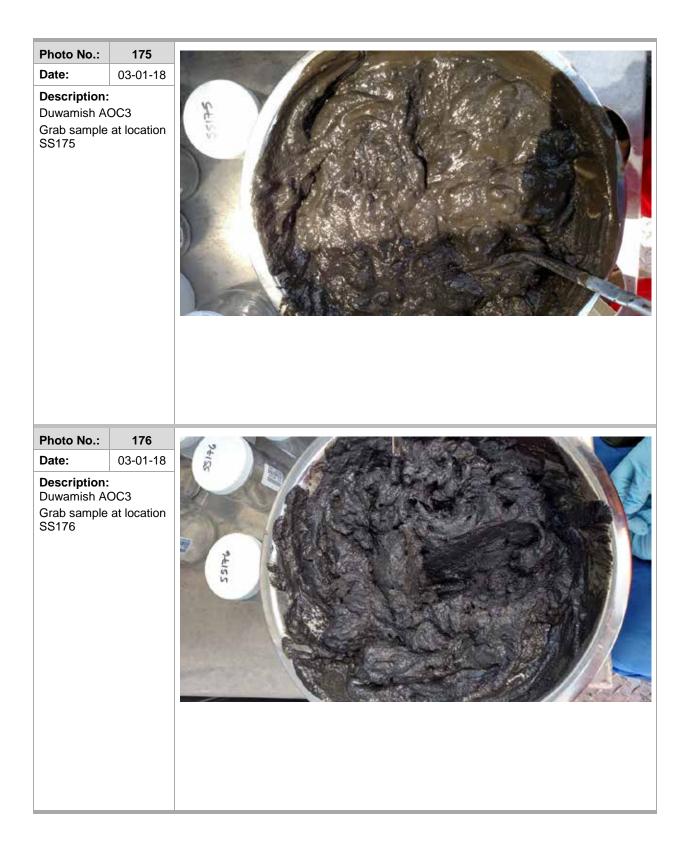




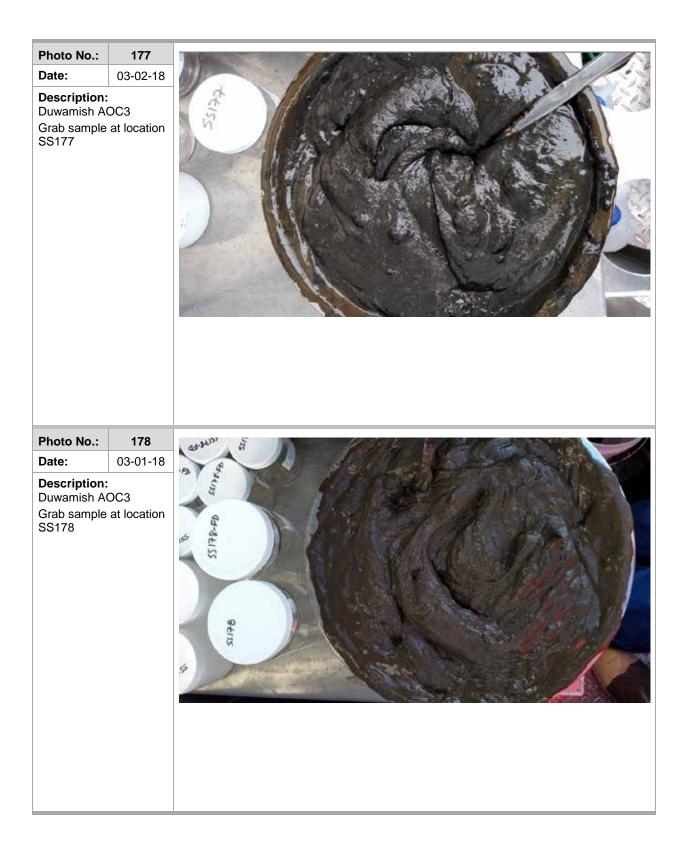




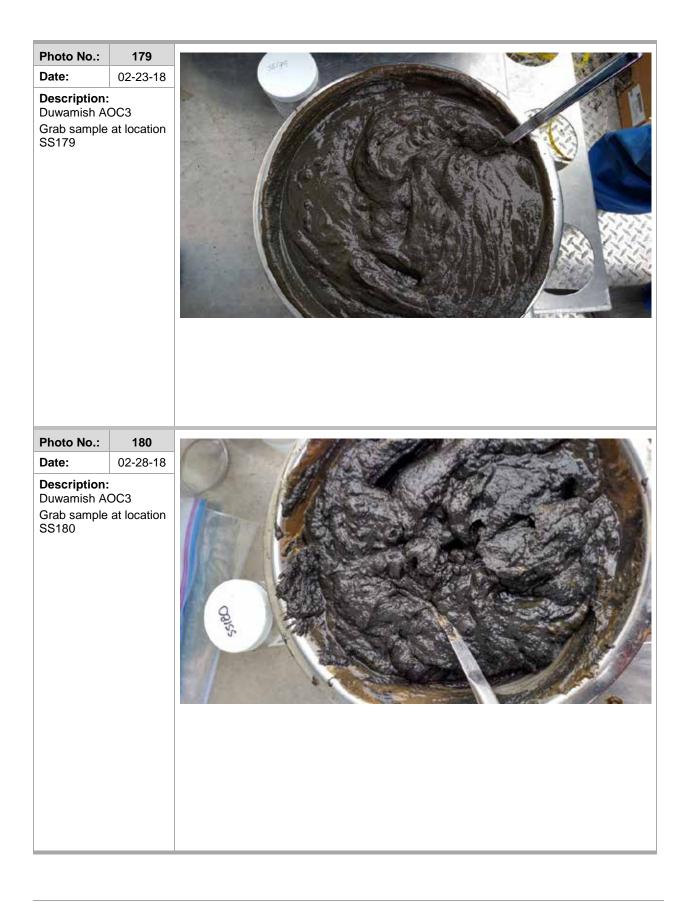




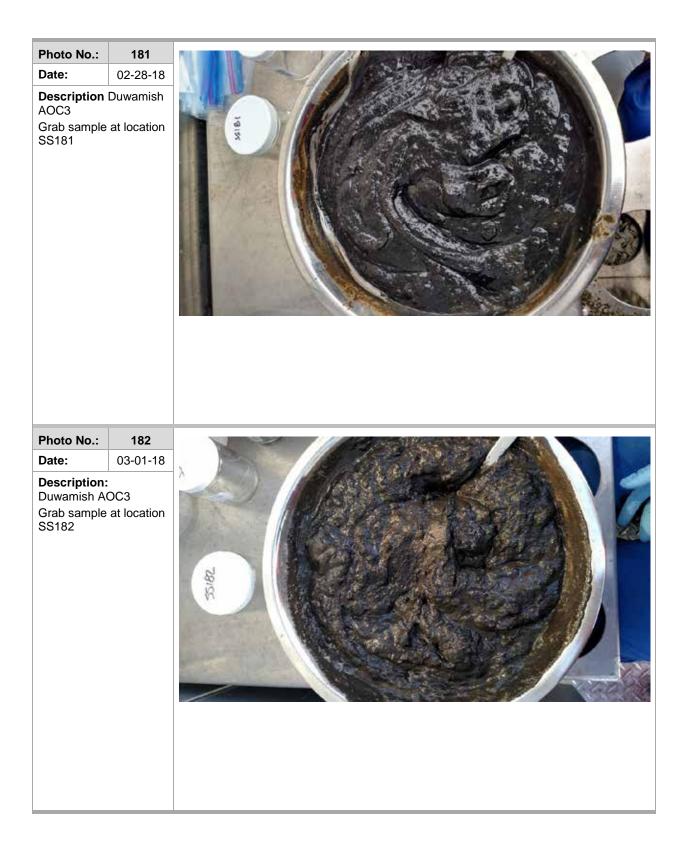


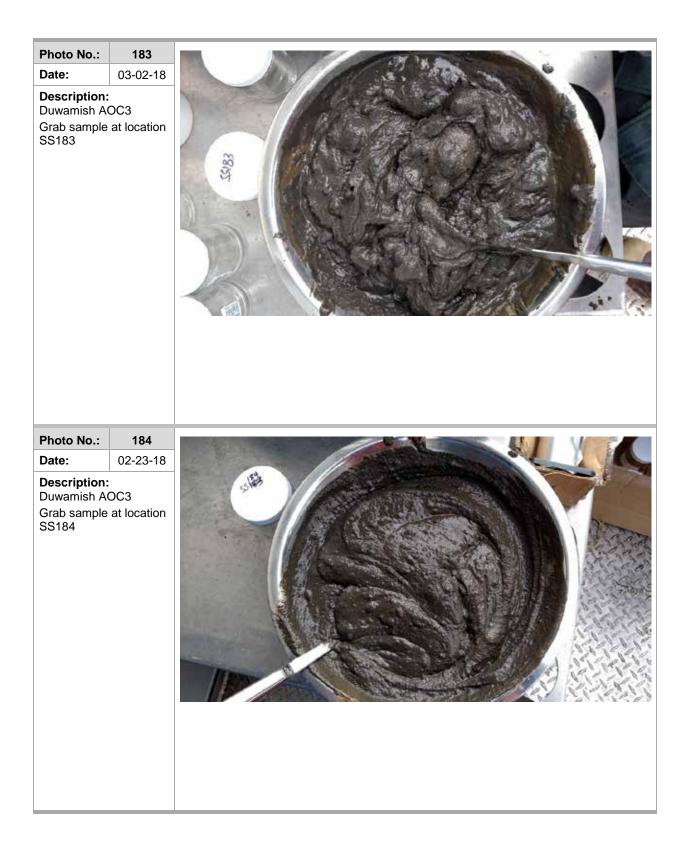




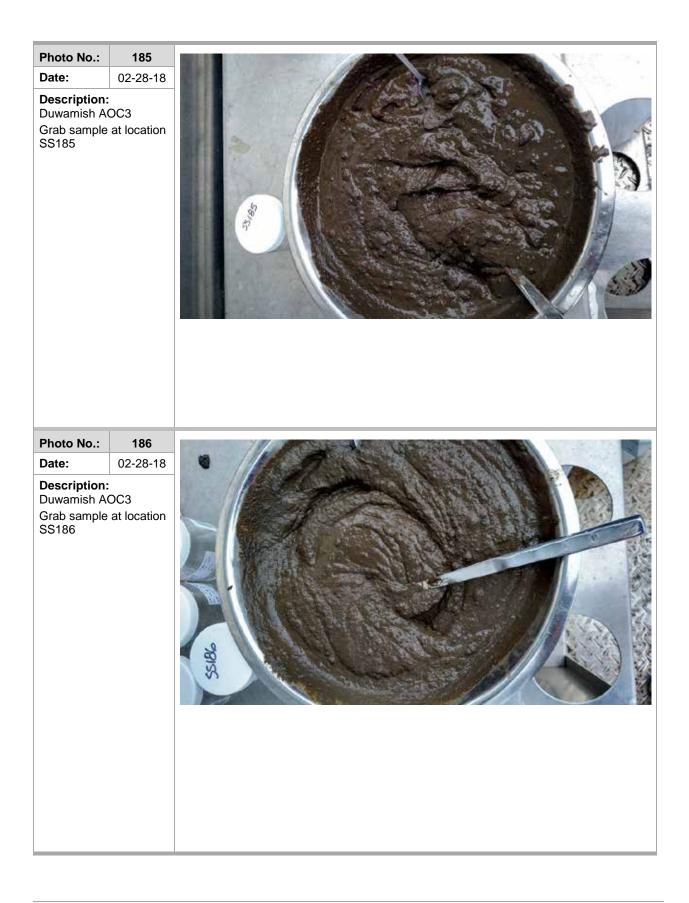




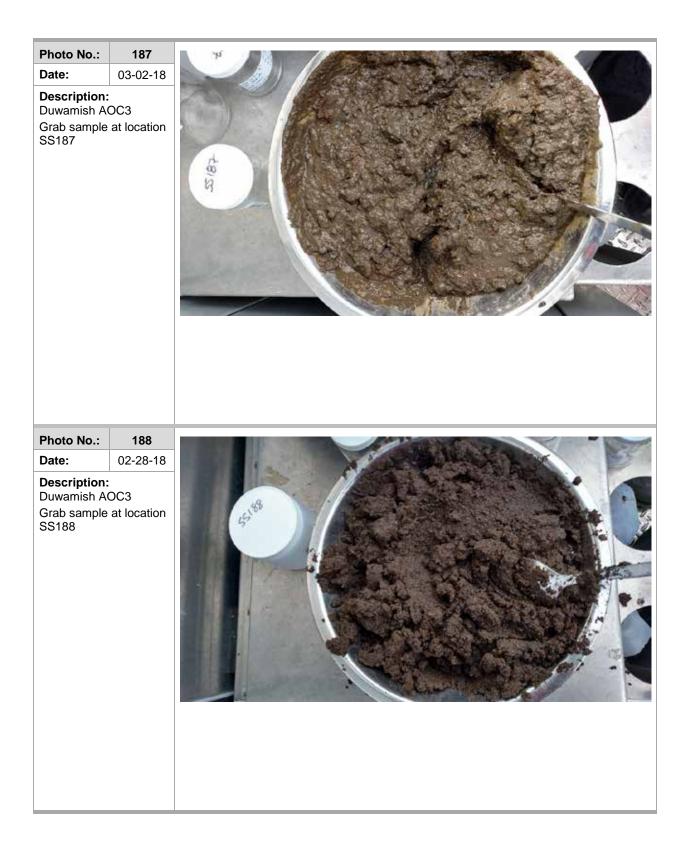




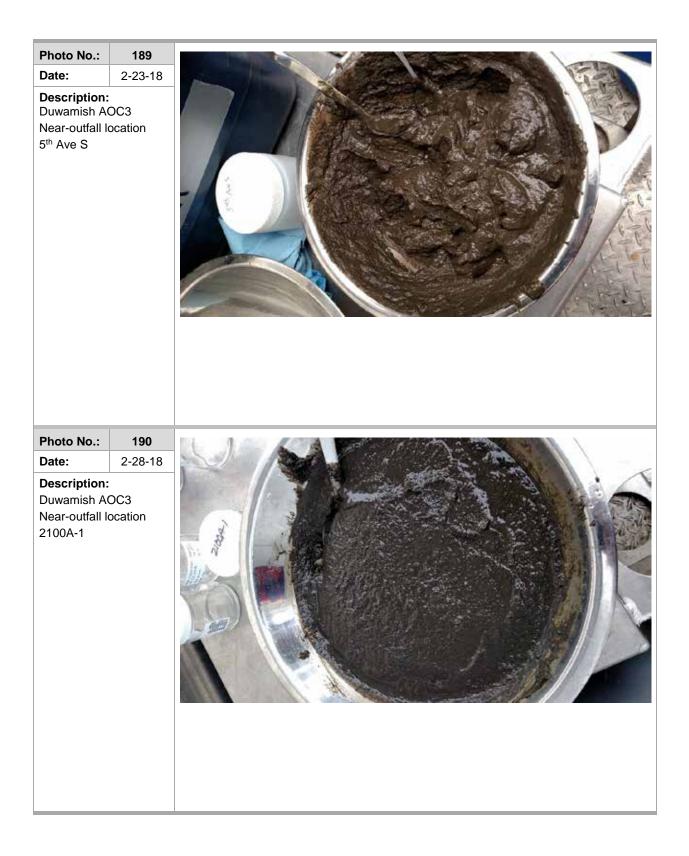








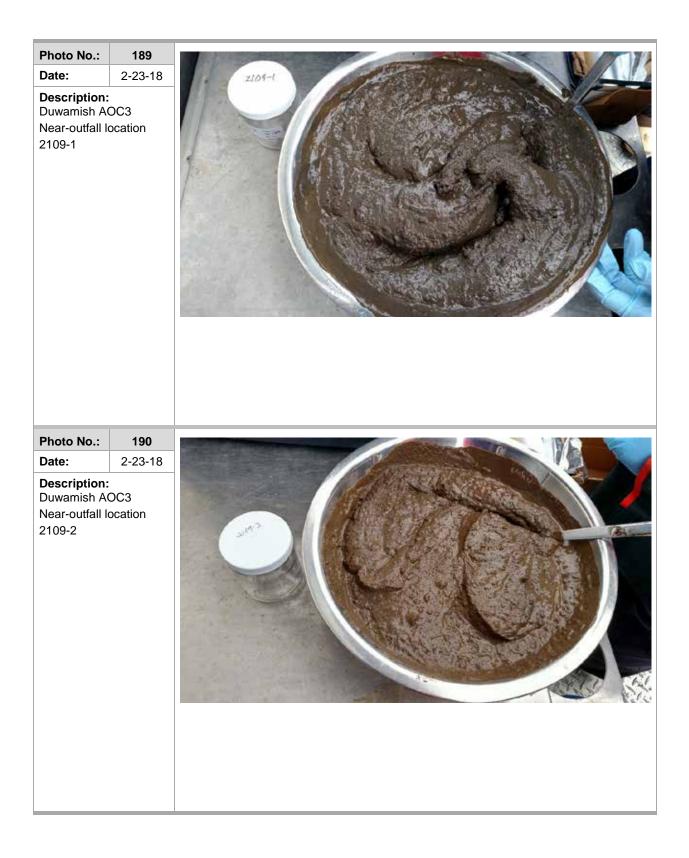




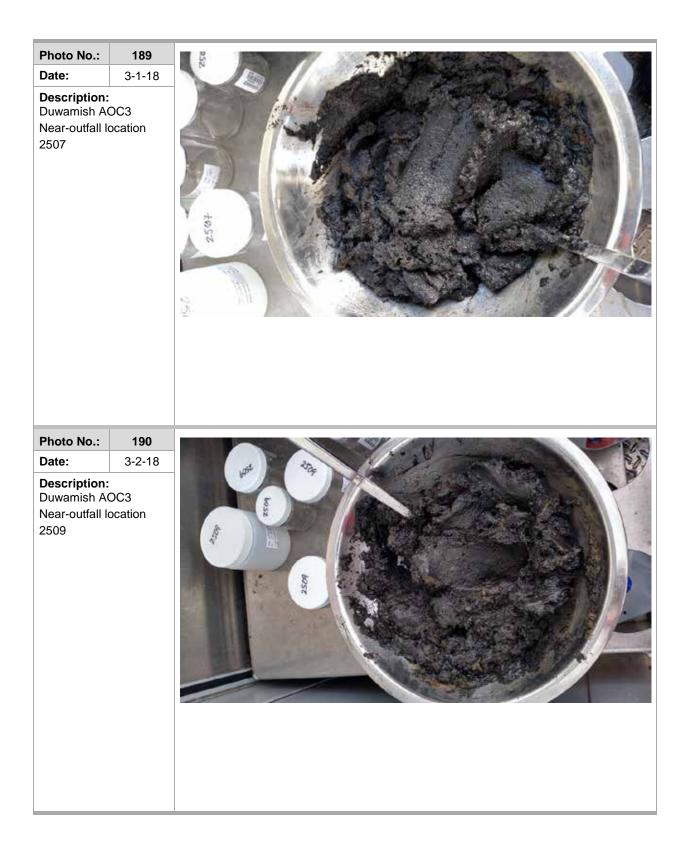




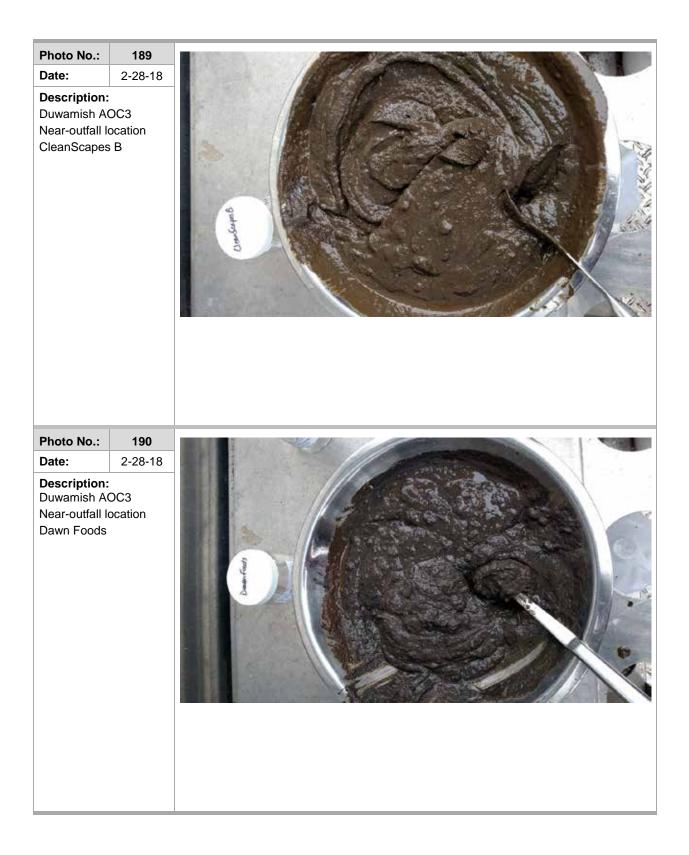


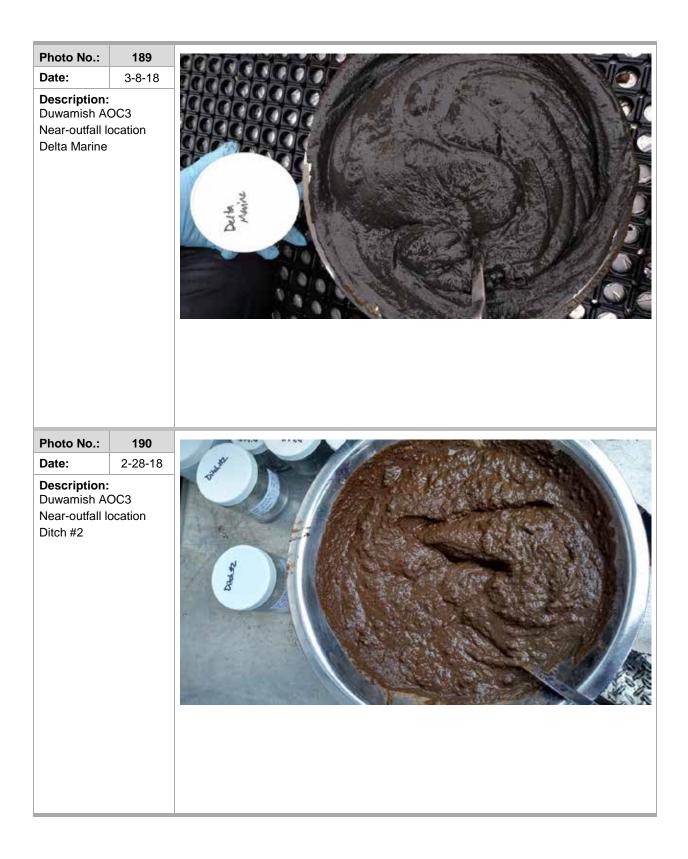








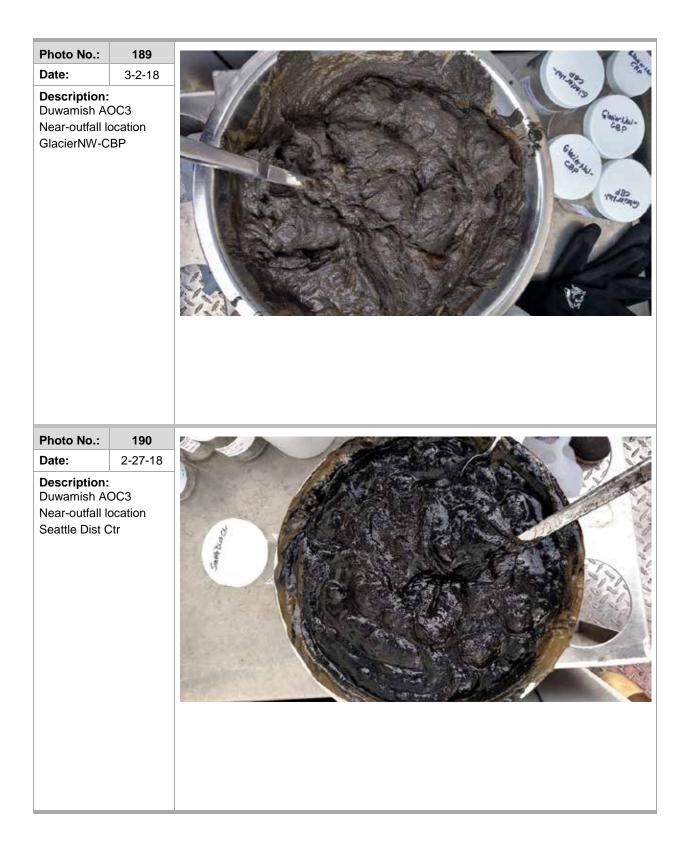




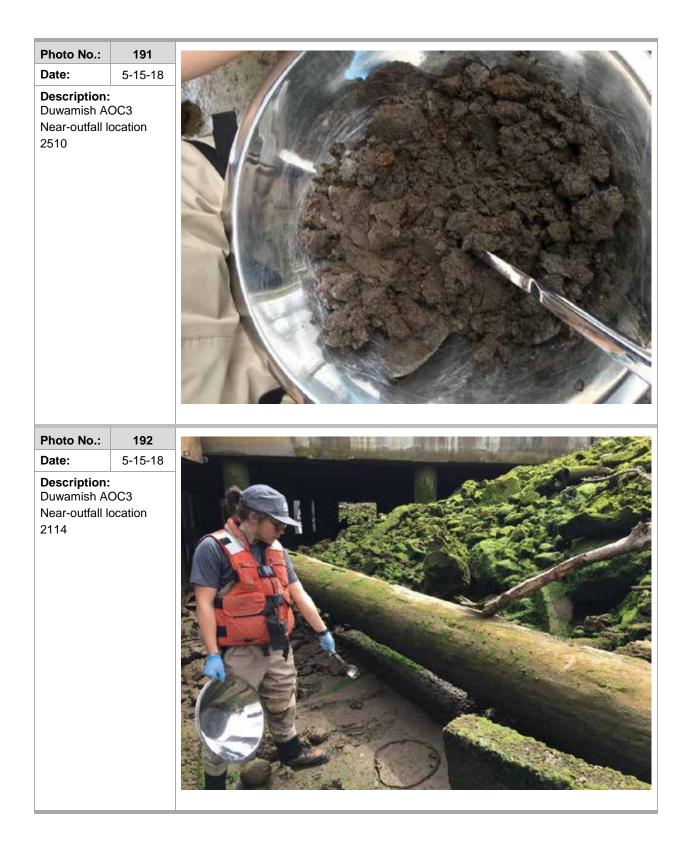




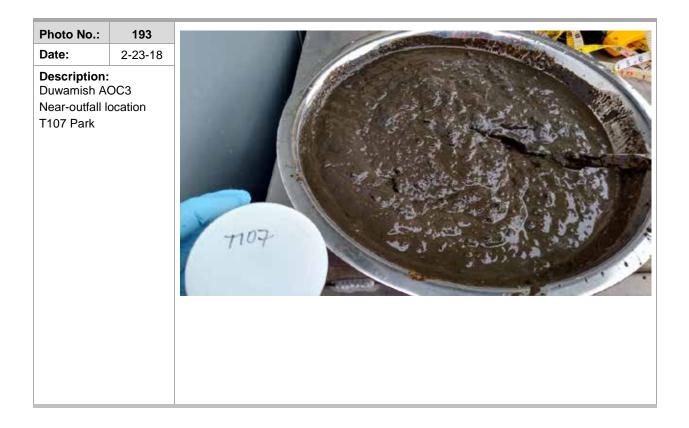




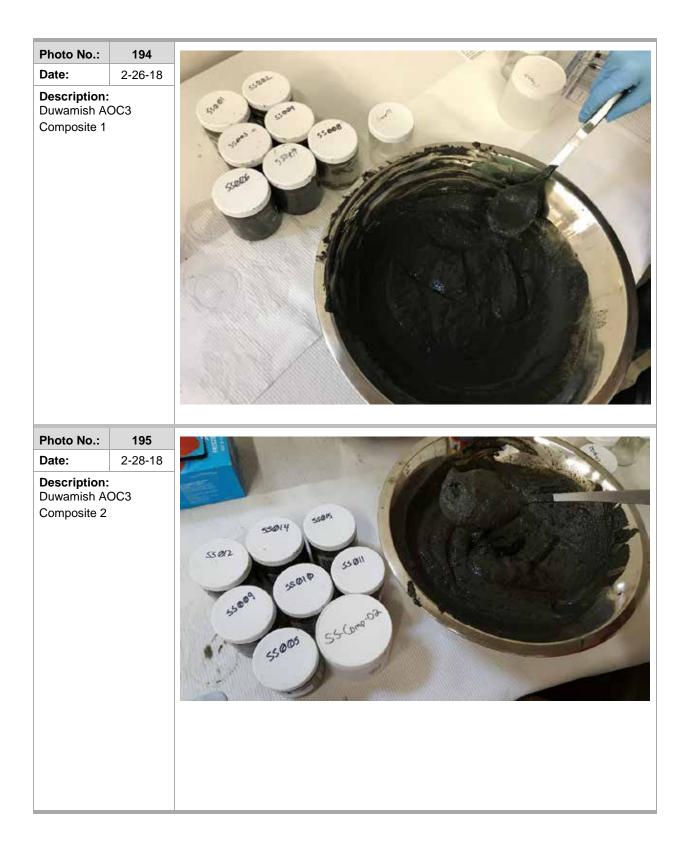




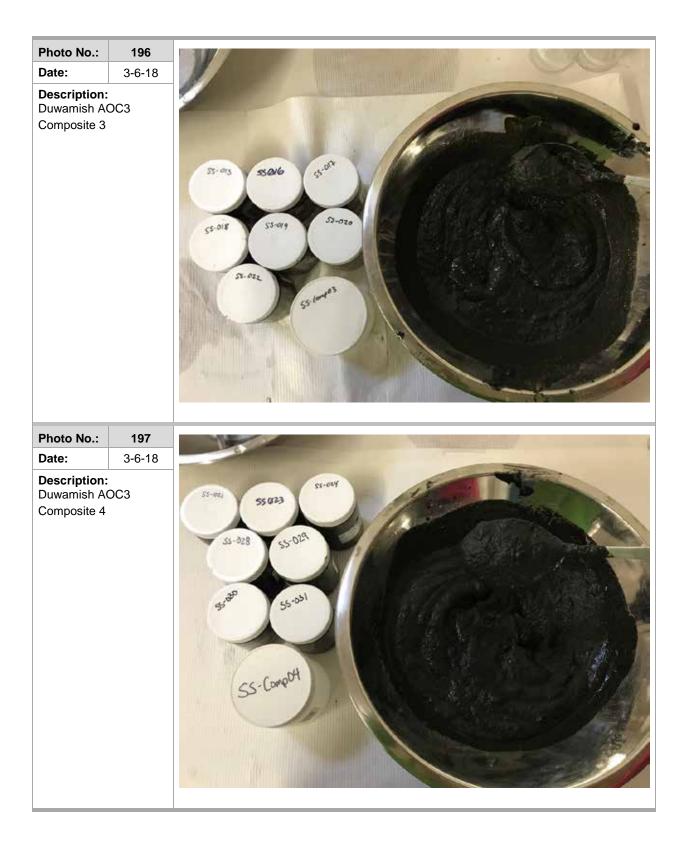




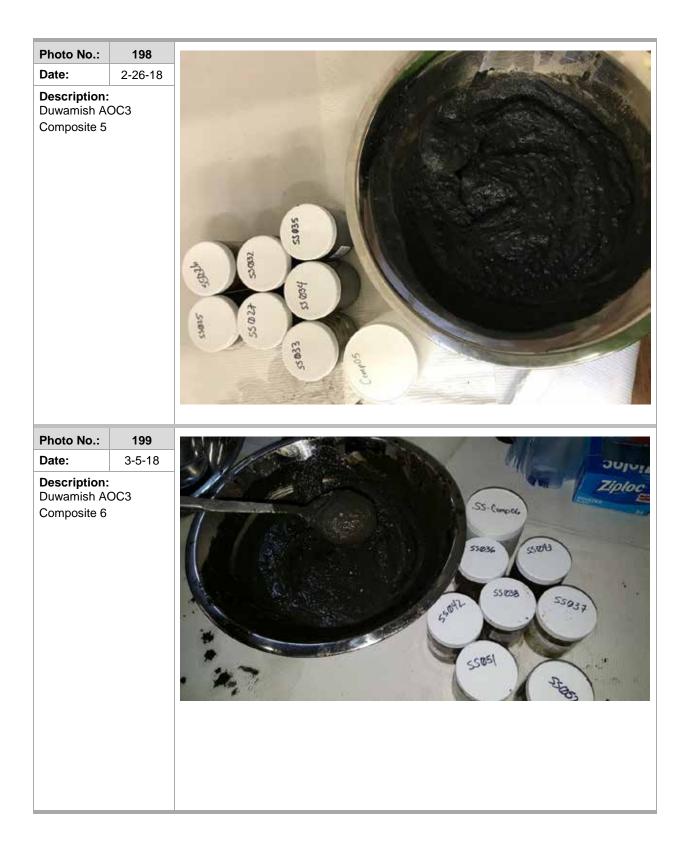




























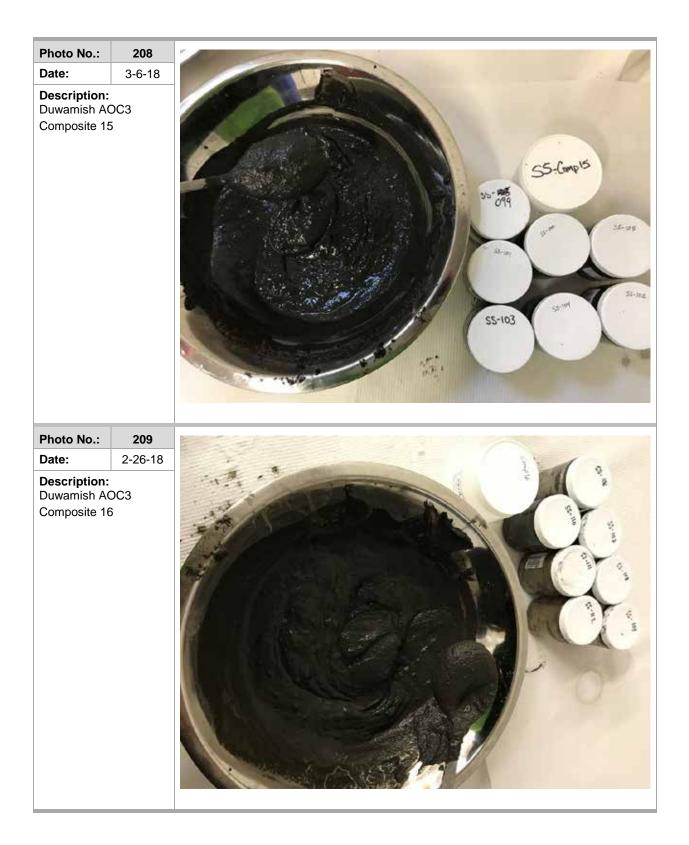






Photo No.:	212	
Date:	3-5-18	SUD SS-Comple
Description: Duwamish AC Composite 19	DC3	S-Composition of the second se
Photo No.:	213	
Date:	3-9-18	
Description: Duwamish AC Composite 20	DC3	





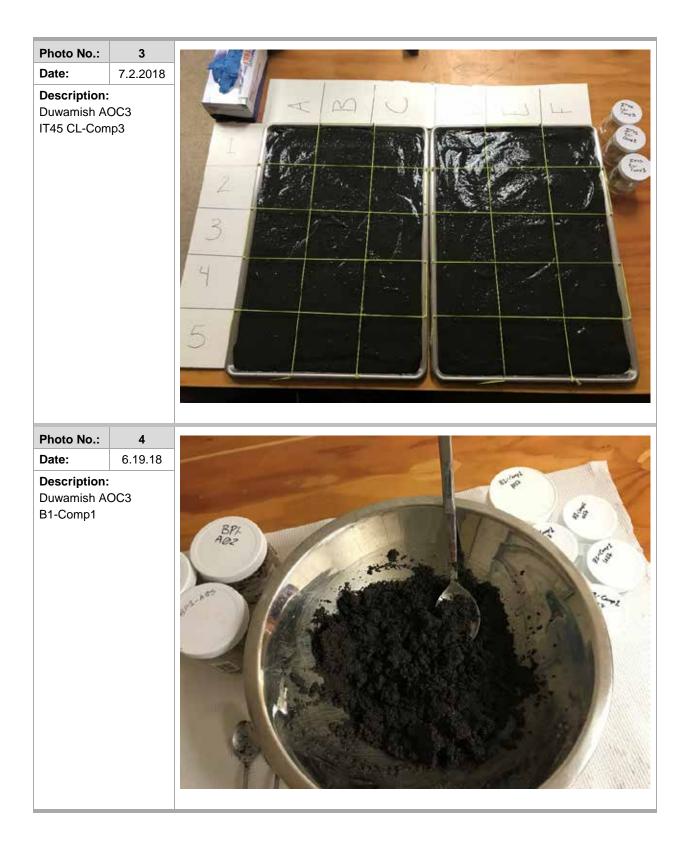




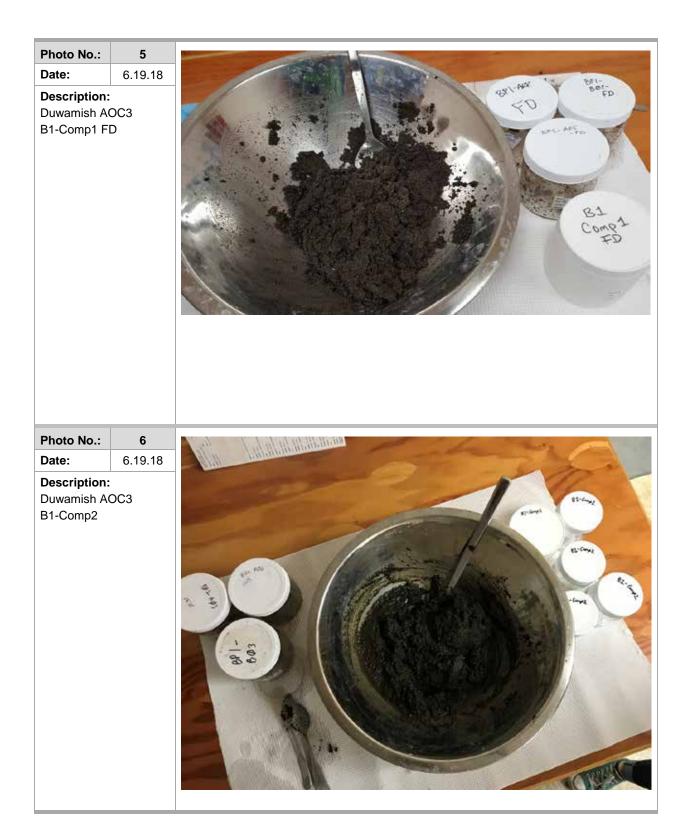








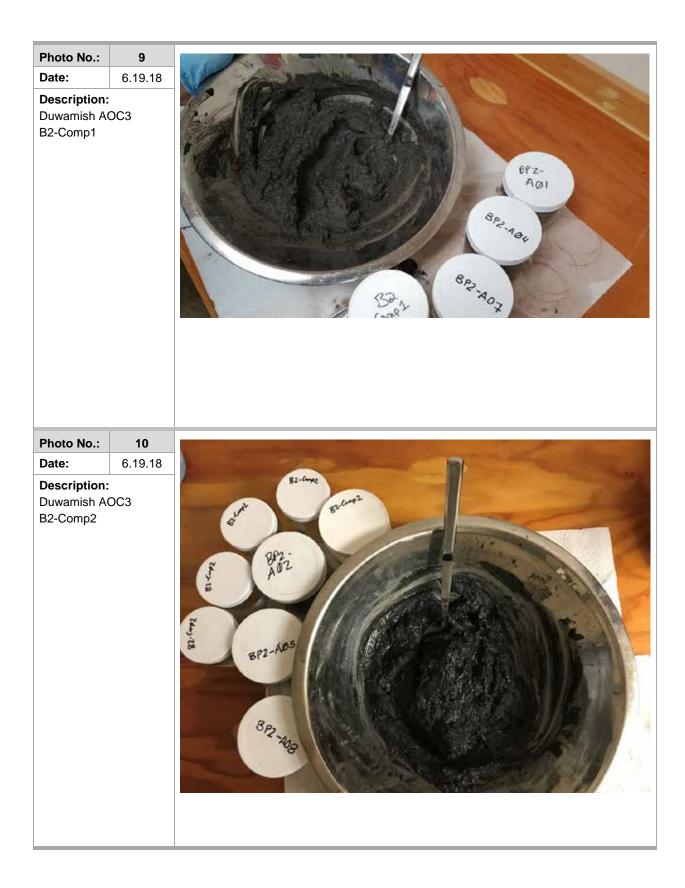




























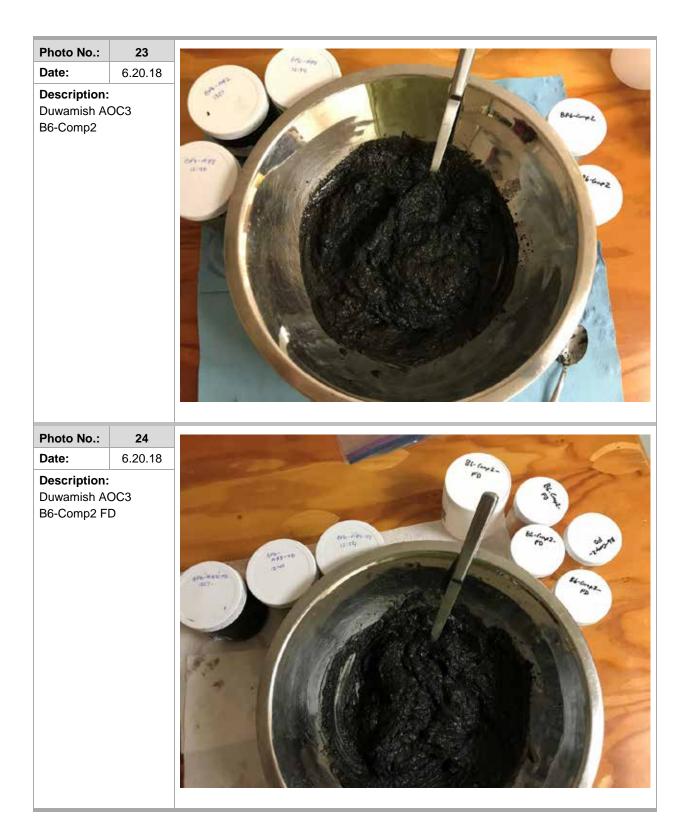




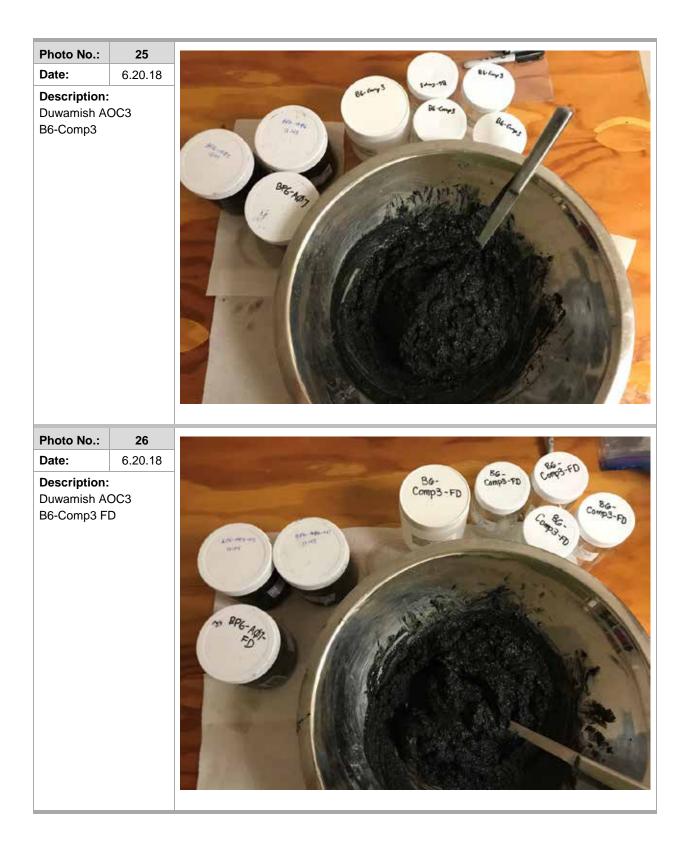








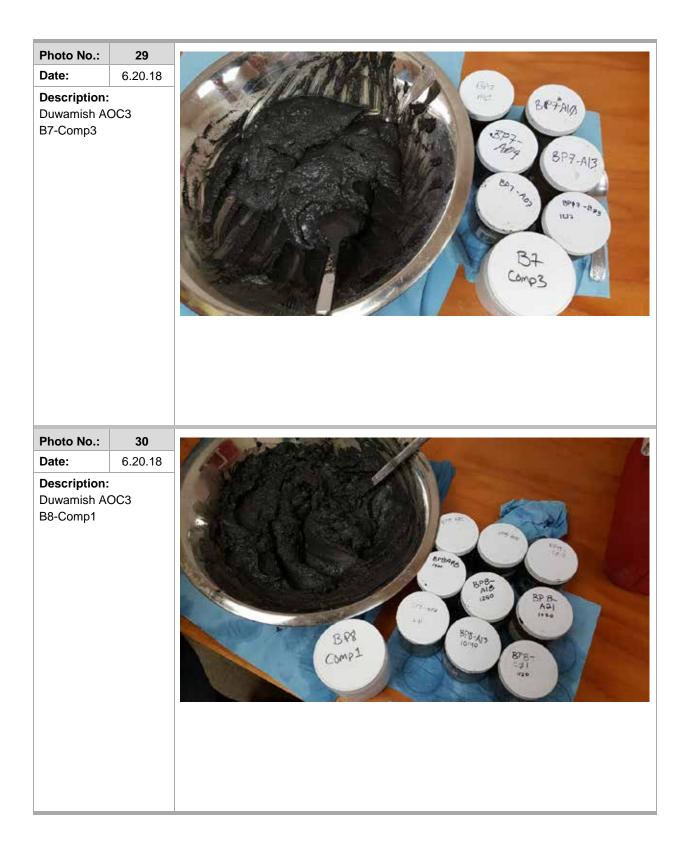


















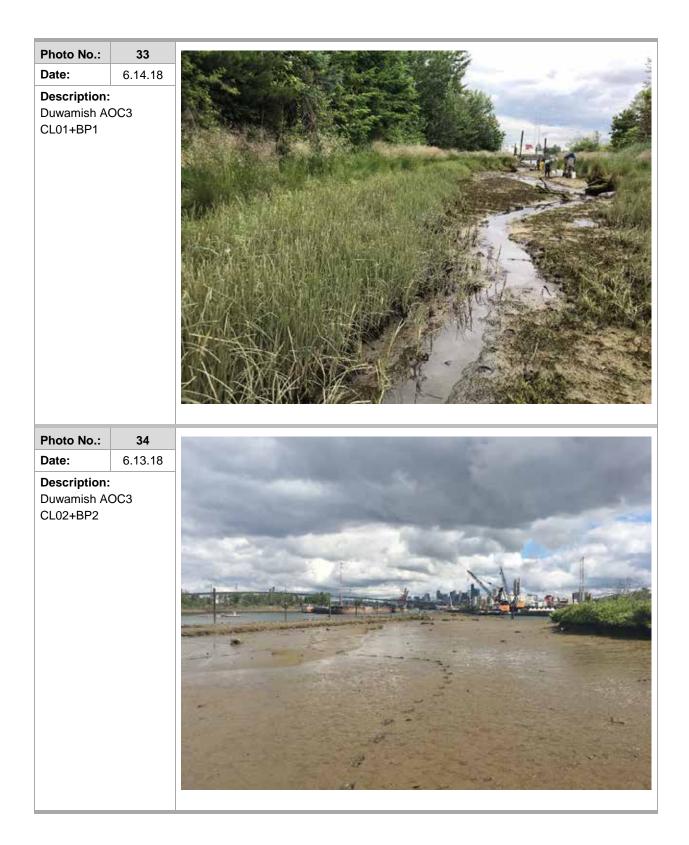
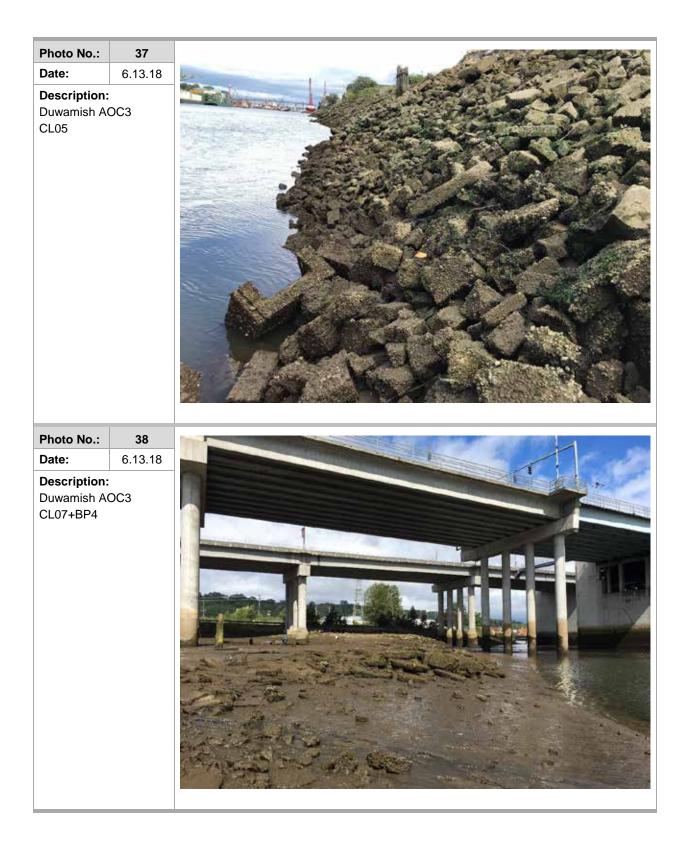




Photo No.:	35	
Date:	6.13.18	
Description:		
Duwamish AC	DC3	A A A A A A A A A A A A A A A A A A A
CL03+BP3		
		and the second
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		the second s
Photo No.: Date:	36 6.12.18	
Description:	202	
Duwamish AC CL04	003	The second se
GL04		The second se
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		a second the second second
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		and the second







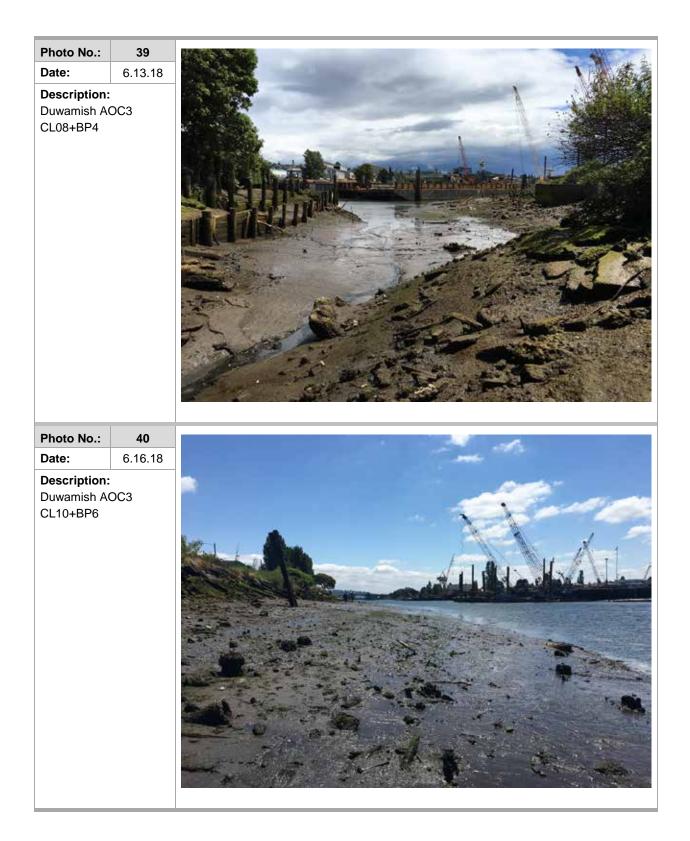




Photo No.:	41	
Date:	6.15.18	
Description: Duwamish A(CL12	DC3	
Photo No.:	42	
Date:	6.16.18	the first of a second
Description: Duwamish AC CL14	DC3	<image/>

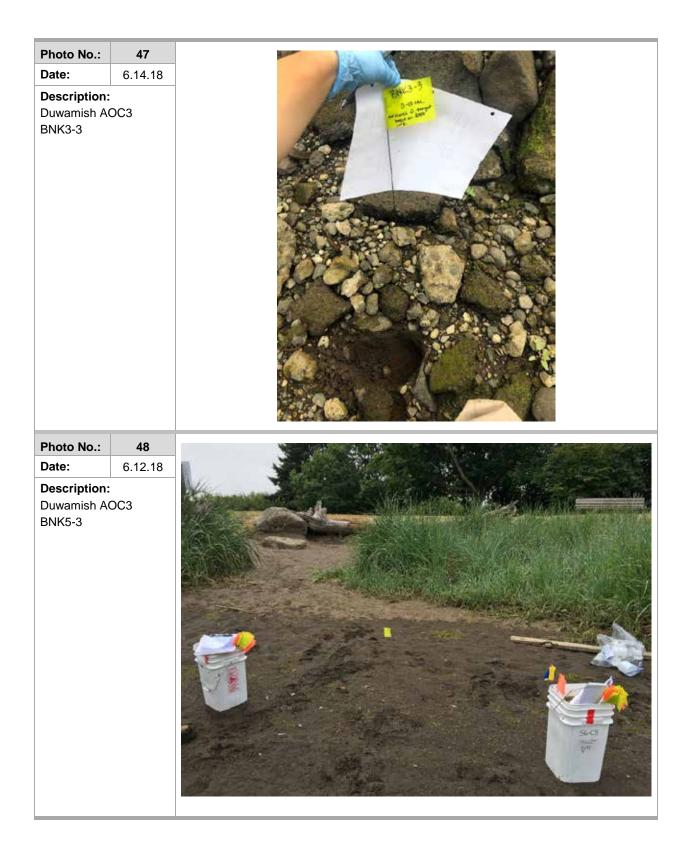


Photo No.:	43	
Date:	6.15.18	Bedrey 6
Description: Duwamish A0 CL15+BP7+E	C3	
Photo No.:	44	
Date: Description: Duwamish AG CL16	6.15.18 DC3	















COCs

11	0	2	0	8	2
	111a	lim	2	:3	3

Project/Client Name:	LDW AUC3	-		Ship to:	ARI				
Project Number:	Task 4			Attn:	Sue Dunnih.	00	Shipping Date:	2/22/18	
Contact Name:	Amara Vandervort				hand delivered		Airbill Number:		
Sampled By:	TD, RM, KM	-	Form	filled out by:	KM	Tu	rnaround requeste	ed: std.	
				Tes	t(s) Requested (check to	est(s) required)			

Sample Collection Date (m/d/y)	Time	Sample Ider	ntification	Volume of Sample / # of Containers	Matrix	di sognasi k	aichive	75/700	pretals	Aroclevs, SVACS, PAHS	Corain Si 20		Comments / Instructions [Jar tag number(s)]	
2/22/18	0905	LOWI8-SS-0	001.	2 -	Sidiment	X	X							
	0921	LOW18 - 55-	002	2	1	X	X							
	0939	LOWI8 - SS-	003	2		X	X				t.			
	0952	LOW18 - 55-	004	WAF7		X	X	X	X	X	X		extra grainsiza jar to ac	
	1029	20W18-55-	800	KM Stuff 2		X	Х							
	1043	LDW18-55-	007	2		X	X					1		
	1056	LOWI8-SS-	006	2		X	X							
	1116	LOWI8-SS-	025	2		X	X						- 12-	
	1132	LOWI8-55-	026	2		X	X							
	1144	LOW18-55-	027	2		X	X						NY ME	
	1230	LOW18-55-0	032	2	and an and a second second	X	X							
2	12.40	LOWI8-55-	033	2	L	X	X					100		
L		Total Number of	Containers	29	Purchase Orde	r / Stateme	ent of W	ork #						
1) Released by:			1) Rec'd by:	h 12	tr 1	2) Released	by:				2) Rec	c'd by:	I	
Print name:		-	-12	and of	t-I-	Printinam	e:							
Signature:	1		Company:	ADI		Signature:						Company:		
Company: Windward TTK Date/Time: 2/22/18 1610 Date/Time:					1010	Company Date/Tim					Date/Time:			
7610 2				118	1610									

* Distribution: White copies accompany shipment; yellow retained by consignor.



1 of 2

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

1	o be	comp	leted	by	Laborat	tory u	pon	samp	le	recei	pt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

10 2982

Project/Client Na	ame: LO	W AOC3		÷		Ship	to: A	RI						
Project Num	ber: Tas	14						12 DL	mih	0		Ship	ping Date: 2/22/18	
Contact Na	me: Am	ara Vanderi	roit					and d				Airhi	Number:	
		RM, KM			Fo				C/ 18- 1 *	27		Turnaround requested: 5+J.		
	1 12,	INTER ETA			10	Form filled out by: <u>k</u> M						Tumarounu requesteu: 570.		
	3						Test(s)	Requeste	ed (check	test(s) req	uired)			
						4								
						impisite	2	ser!	JS.	25,	Size			
Sample Collection Date				Volume of Sample / # of	8-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	idi	hive	1	ten	cs,	2			
(m/d/y)	Time	Sample Iden	tification	Containers	Matrix	12	arc	73	metals	Aroclars, Svacs, PAHS	elle		Comments / Instructions [Jar tag number(s)]	
2/22/18	1250	LOW18-55-0	34	2	sediment	X	×							
í	1258	LOWI8-SS-	035	2	1	X	X							
	1308	LOWIS-SS-		2		X	X							
1.5	1320	LOWI8-SS-		2		X	X							
	1342	LOW18-55-042		2		X	X							
	1351	LDW18-55-	043	2		X	X							
	1410	LOWI8-55-	051	2		X	X		Kan		_			
	1431	LAWI8-55-	064	2		X	X	×	-x-		×		comprisite + michive only	
	1441	LOW18-55-	.069	6		X	X	X	X	X	×			
	1441	LOWI8-SS-	069-FD	6	1	X	X	×	×	×	X			
17-				Jan	2/72/18									
V											and the second sec			
A		Total Number of	Containers	28	Purchase Orde	r / Stateme	nt of Wo	ork #				1.0	and the second se	
1) Released by:			1) Rec'd by:	5 15	T-A-	2) Released	by:				2) Re	c'd by:	T	
Print name:	Kate Mich	aek	12	- At	-le	Printinam	e:			-				
,	Inte	/	Company:	4121		Signature:					Co	Company:		
Company: 11			1	11/2/		Company	:							
Date/Time: 2/	122/18	1610	Date/Time:	22/16	1610	Date/Time	2:				Da	te/Time:		
			610	CIT	1010									

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2 of 2

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

10 2994

													ine Log gra			
Project/Client Na				+		Ship	to: A	RI								
Project Num	ber: Tas	sk 4				Attn: Sue Durniheo							ping Date: 2/23/18			
Contact Na	me: Am	ara Vanderv	ort			Shipper: hand delivered										
		RM, KM			Fo	rm filled out							nd requested: 570.			
5 x 1						Test(s)	Requeste	ed (check	test(s) req	uired)	red)					
						×.	J									
Sample				Volume of		composite	hive									
Collection Date				Sample / # of		two	5						Comments / Instructions			
(m/d/y)	Time	Sample Iden		Containers	Matrix	3	Ø						[Jar tag number(s)]			
2/23/18	0821	LOW18-55-0		2	Sediment	×	X									
	0854	LOWI8-SS-		2		X	X									
	0905	692018-SS-	Ablom	2-2		-	*	cm					not reliected			
	0920	LOW18-55-067		2		X	X									
	0936	LOWI8-SS-	LOW18-55-068			X	X									
	0956	LOW18-55-1	10.6	2		×	X									
1	1018	LOW18-55-	107	2		X	X									
	1054	LOWI8-SS-	108.	2		X	X									
	1104	LOW18-55-	109	2		X	x									
	1114	LOW18-55-	110	2		X	x									
	1120	60W18-55-		2		×	X									
L	1128	20W18-55-	112	2 .	1	X	X									
		Total Number of	Containers	22	Purchase Orde	er / Stateme	nt of W	ork #								
1) Released by:			1) Rec'd by:	At	11 11	2) Released	by:				2) Re	c'd by:	Т			
	ate mer		la de	10-4 Jaco	oblatter	Printinam	e:									
Signature:			Company:			Signature:					Company:					
Company: W			MAL			Company										
Date/Time: 2/	Date/Time: 2/23/18 1620 Date/Time:							Date/Time:					Date/Time:			

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of 2

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To	be comp	pleted b	y Laborato	ory upon	sample	e receip	ot:
----	---------	----------	------------	----------	--------	----------	-----

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

10 2992

Project/Client Na	ct/Client Name: LDW AJC3 Ship to: ARI												
Project Num	ber: Ta	sk 4						Sue D	unnit	200		Ship	ping Date: 2/23/18
Contact Na	ame: Ar	mara Vande,	rvort					and .					Number:
		RM, KM			Fo	rm filled out							nd requested: Stat.
								-					
1. S.							Test(s)	Requeste	ed (check	test(s) requ	uired)		
						K	N						
Sample				Volume of		amposi ke	Svik						
Collection Date	T '			Sample / # of		has	12						Comments / Instructions
(m/d/y)	Time	Sample Iden		Containers	Matrix	2	0						[Jar tag number(s)]
2/23/18	1153	LOW18-55-1	13	2	Sediment	4 X	X						
	1208	LOW18-55-1	115	2		X	X						
	1232	LOWI8-55-	117	2		X	X						
	1312	LOWI8-55-	118	2		X	X						
	1321	LOWI8-55-	-119	2		X	X						
	1327	LOWI8-SS-	120	2		X	X						
	1340	LOW18-55-	- 121	2		X	×						
	1350	1DW18-55-	122	2		X	X						
	1405	LAW 18-55-	-124	2		X	X						
	1414	LOW18-55-	125	2		X	X						
	1433	LOWI8-55	- 126	2	1	X	X						
Í	1139	LPW18-55-	114	2		×	X						-
	L	Total Number of	Containers	24	Purchase Orde	r / Stateme	nt of Wo	ork #					
1) Released by:			1) Rec'd by:	11 Acts	Jarobil	2) Released	by:				2) Re	c'd by:	T
Print name:	ate Mich	Peek	port	A	Auth.	Printinam	e:			-			
											Company:		
Company:			ART Company:										
Date/Time: 2/	23/18	1620	Date/Time:	3/18 1	Date/Time: Date/Time:								

* Distribution: White copies accompany shipment; yellow retained by consignor.



200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

IO De	comp	oleted	by	Laborator	y upor	i samp	le	receipt	

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 2

of				CUSTO	DY/TES	T REC	QUES	T FO	ORM	1	2934		
Project/Client Name: AOC 3. TASK 4. SEDIMENT Ship to: ARI Project Number: Attn: SVE AUXINI HOD Shipping Date: 02.23.18 Contact Name: AMARA VANDGRVOM Shipper: HAND DELD Airbill Number: Sampled By: TD_DM Form filled out by: TDO Turnaround requested: STD									Il Number:				
Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Gain Size Archive TS/TOC	Test(s) Request medy so and Sharpord 22	it	test(s) rec SATABUD) B H	nired)	Black . Civebun	Comments / Instructions [Jar tag number(s)]		
0.13.18	0933	LOW 18-5507-TIDT PARK	6	SEDIMENT	TVVV	J J			~				
	0933	LOWIS-550F TOPPAREF	56		VVV	V Ver	att		1				
	1148	101018-55-179	8		111	MAN V	1	~		~	EXAVA VOL For QUAIN STRE 64		
	1239	LDW18-3508-5thAves	7		110	VV			~		the second secon		
	1326	UDW18-55-184	7		11 1	and 1	1	~		V			
	1403	LOW18-450T-2109-1	6		151	VV			1				
	1427	13W18-5507-2109-2	6		VV J	VV			/	/			
X	1515	1721718-55-169	+	V	VV V	North /	V	~		1			
		1		1						1			
	/		/						/	-			
	/		/	-					/				
	/		(/			1		
		Total Number of Containers	53	Purchase Order	/ Statement	of Work #		(
1) Released by:		1) Rec'd by:	Autor		2) Released by:				2) Re	c'd by:	T		
Print name: 1	AT W	Kerly	all.	Toroll.alle	Print name:			-					
Signature:	N	Company:			Signature:				- Co	Company:			
	WWWAR	1	1 /		Company: Date/Time:					te/Time:			
Date/Time:	1,23.18	/1620 Date/Time:	Date/ IIIIe:				Da	ae/ mne:					



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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2935

													the second	
Project/Client Na				÷		Ship	to:	ARI	-				Ŧ	
Project Num	ber: TAS	K4				Attn: SUE DUDDIHOD					>	Shipp	Ding Date: 02.26.18	
Contact Na	ame: AM	ARA VAUT	ZERVORT	ç		Shipper: HAND DEL'D						Airbill Number:		
	By: NP			3	Fo	rm filled out							nd requested: 500	
		1.:2					· _ ·	20						
							Test(s)	Request	Requested (check test(s) required)					
						Ш	L			t st	Sile			
Camala				Malana		COMPOSITE	APCHIU	The	Metads					
Sample Collection Date				Volume of Sample / # of		du	CH	F	3	RCBA	Grain		Comments / Instructions	
(m/d/y)	Time	Sample Ider	ntification	Containers	Matrix	Ca	A	161	Z	23	Qu		[Jar tag number(s)]	
02.26.18	0750	LDW18-55	-005	2	SEDIMENT	X	X						I	
1	0809	11	-009	2	1	X	X							
	P875		-015	2		×	×				-			
	0950		-010	2		X	×							
	0913		-014	2		X	X	3						
	0941		-039	2		X	X							
	0956		-040	6		×	×	×	×	×	X			
	1015	-	-045	2		×	X							
	1028		-046	2		X	×			J.	1 · · · ·			
	1045		-047	2.		×	X							
-	1105		-048	2		×	×							
1	1133	V V	-011	2	V	×	X			75	Hotel I			
		Total Number of	Containers		Purchase Orde	er / Stateme	ent of W	ork #						
1) Released by:						2) Released	by:				2) Re	c'd by:	· · · · · · · · · · · · · · · · · · ·	
Print name: THAI DO Stephanie FISNel						Print nam	ie:						1000	
Signature: Company:						Signature	:				Co	mpany:		
Company where the MM						Company:								
Date/Time: 02.26.16/1638 Date/Time: 12.26.16/1638 Date/Time:					38)	Date/Tim	e:				Da	Date/Time:		

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of Z

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of	2 of 2 CHAIN-OF-CUSTODY/TEST REQUEST FORM												
Project/Client Na	ame: AD/	1.3		÷ .		Shir	o to: A	PI					
	ber: TA		11						DUN	LILA	a	Ship	ping Date: 02.26.18
		ARA VAND	ERVORT	-			per: U				-	Airbil	Number:
Sampleo	By: NA	4,-70			For	m filled out							nd requested: STD
-	Test(s) Requested (check test(s) required)												
Sample	1 			Volume of		COLUDBITE	ARCHIVE						
Collection Date (m/d/y)	Time	Sample Iden	tification	Sample / # of Containers	Matrix	CON	ARC						Comments / Instructions [Jar tag number(s)]
02.26.18	1150	LOW18-5	5-012	Z	EDIHEN	TX	X						
	1355	-	-123	2	-	×	×						
	IAH		-127	2		×	×						
	1426		-128	2		×	×						
	1429		-129	2		X	X						
	1504		-131	2		×	×						
	1525		-132	2		X	X						
4	1539	2	-133	2	A	×	X						
	/			/				/		at 1			
	/			/	-			/					
			/			-	/						
		Total Number of	Containers		Purchase Order	/ Stateme	ent of W	ork #			4		
1) Released by: 1) Rec'd by:						2) Released					2) Re	c'd by:	T
Print name: THAT TO Stephaning FISME						Print nam	ne:			-			÷
Signature: Company: Mar I					-	Signature: Company:							
		to an	T	IM		Company							
Date/Time: 07.26.18/1638 Date/Time: 1638						Date/Tim	ie:				Da	te/Time:	



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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2976

Project/Client Name:A0C3							o to: 1	ARI						
Project Number: TASK 4						Attn: SUE DUNNIHOD Shipping Date: 02.27.18							ping Date: 02,27.18	
Contact Na	ame: AU	ARA VAL	DERVOR	T		Shipper: HAND DEL'D						Airbill Number:		
						orm filled out						Turnarou	nd requested: SD	
				-										
									Test(s) Requested (check test(s) required)					
Sample Collection Date (m/d/y)	Time	Sample Ide	ntification	Volume of Sample / # of Containers	Matrix	COMPOSITE	ACHIVE	T5/TBC We tak	Anocloves Subcs/Parts	Grain Size	DOUNTHUR		Comments / Instructions [Jar tag number(s)]	
62.27.18	0825	LDW18-55	-093	2	SED	×	×							
	0955	101218-5507-	Seattle Dist(1	5 6	i		×	XX	×	X	X			
		104718-55	-145	2		×	X							
	1011	1	-149	2		×	×							
	1027		-150	2		×	×							
	1043		-151	2		×	×							
	1100		-152	2		×	X							
	111/2		-154	2		×	×							
	1124		-153	2		×	×							
	1152		-159	2		×	×							
	1710		-160	2	·	X	X							
J	17.31	L	-158	2	J	×	×					-		
		Total Number of	f Containers		Purchase Ord	er / Stateme	ent of W	ork #						
1) Released by: 1) Rec'd by: Brondom Fisk						2) Released	by:				2) Re	c'd by:	T	
Print name: THAT TO					At	Printinam	ie:							
Signature: Company: AD1					Signature:					Co	Company:			
Company WINDWARD EN AKI					Company:									
Date/Time: Date/Time: 02.77.18/1608 02/2.77/18 1608				1608	Date/Tim	e:				Da	ite/Time:			

* Distribution: White copies accompany shipment; yellow retained by consignor.



of 2

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

19 2977

Project/Client Na	ame: Abc	:3		Ship	o to: 🖌	XRI								
Project Num	ber: TA	5K4	15					UE 1	DUP	140	0	Ship	Ding Date: 02.7318	
		ARA VAND	ERVORT	-								Airbil	Date: D2:73-18 Number:	
Sampleo	By: NM	1, RM, TD			Fo	Shipper: HAND DEL'D Airbill Number: Form filled out by: TD Turnaround requested:							nd requested.	
							Test(s)	Requeste	d (check	test(s) rec	uired)			
						te	4	21.	1 AN		2			
Sample				Volume of		CONTROSTE	ARCHIVE	2) toc	Aroclers 2006/P3	53	No.			
Collection Date				Sample / # of		2	RCI	57	Arocler 90061	Sirin	342		Comments / Instructions	
(m/d/y)	Time	Sample Iden		Containers	Matrix	2	4	4-	\$ 01	0	A		[Jar tag number(s)]	
07.27.1B	12:45	LOWB-55		27	50	×	×							
	1300		-156	2	1	X	X							
	1311		-161	6		×	X	XX	×	×				
	1342	-	-162	×	×									
	13:55		-163	2		×	×							
	1433		-1104	2		×	X							
Y	1445	×	-155	2	V	X	X							
		/			/						/		/	
	/				/					/				
	/			/						/				
					1				/	/				
/				/					/					
		Total Number of	Containers		Purchase Orde	er / Stateme	nt of W	ork #						
1) Released by:			1) Rec'd by:	Hardon F.		2) Released	by:				2) Rec	c'd by:	T	
Print name: 77	141 00		7	linde	W-te	Print nam	e:			-				
Signature:						Signature					Co	Company:		
						Company:					_			
Date/Time:	Date/Time: Date/Time:				1608	Date/Time	e:				Da	Date/Time:		

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2 of 2

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

10 3001

Project/Client Na	ame: LO	W ADC3		Ship to: ARI										
Project Num	ber: Jac	:k4					Attn:	ve D	vanih	00		Shipping	Date: 2/28/18	
Contact Na	me: Am	are Varder	vort			Shipper: hand detive red						Airbill Number:		
Sampled	By: TR,	RM, KM			F	Form filled out by:						Turnaround requested: 5+0.		
						Test(s) Requested (check test(s) required								
5						-	l est(s	Request	ed (check	1	uired)			
						Composite	2	J	5/	Pres.	5			
Sample Collection Date				Volume of		n b a	archive	75/100	pheter 15	Dele	Sil		Comments / Instructions	
(m/d/y)	Time	Sample Iden	tification	Sample / # of Containers	Matrix	Col	aci	13.	M	Amelors, Svocs, PAH.	Grain Size		[Jar tag number(s)]	
2/28/18	0833	LOWI8-55.	- 134	2	Sedimen	+ x	×							
1	0843		-135	2		X	X							
	0852		-136	2		X	V							
	0922		-166	2		X	×						N N	
	0930		- 167	2		X	X							
	0940		-168	2		X	X							
	0958	-	165	2		X	×							
	1015	-	140	2		X	X							
	1025	-	139	2		X	X							
	1034	-	138	2		X	X	-						
	1042	-	137	2		X	×							
1	1122	-	104	2	1	X	X							
		Total Number of		24	Purchase Ord	der / State	ment of W	/ork #						
1) Released by:			1) Rec'd by:	Bravilon F		2) Release					2) Re	c'd by:		
Print name:				The le	-DJ-Z	Printin								
	Signature: //// Company: AR				Signat					- 0	Company:			
Company: Windward HAMA					Company: Date/Time:					Da	Date/Time:			
Date/Time: 2/18/18 # 1625 Date/Time: 2/28/18 1625														

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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343 To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

of Z

10 3002

Project/Client Na	Project/Client Name: LOW AOC3							to:	121	-					
Project Num	ber: fus	k 4					A	ttn:	ie Du	innih	10		Ship	ping Date: 2/28/18	
Contact Na	ime: An	nava Vander	ort				Shipp	er: h	end e	de live	red				
Sampled	By: TR	RM, KM				Form filled out by: KM							Turnaround requested: 5+J.		
•								Test(s) Requested (check test(s) require							
Sample Collection Date (m/d/y)	Time	Sample Ident	ification	Volume of Sample / # of Containers	Matrix		Composite	archive	75/700	Metuls	Aroclors, PAHS	Grain		Comments / Instructions [Jar tag number(s)]	
2/28/18	1133	LOW18-55-	105	2	Sodima	+	X	×							
	1153	-	102	2			×	×							
	1204		101	6			×	×	×	X	×	X			
	1237		-100	2			X	X							
	1251	~	098	2			X	×				-			
	1306	- 2	092	2			×	Y							
	1320	-	091	6			X	×	x	×	х	X			
	1337	-,	089	2			×	X							
	1348	- (780	2			×	×							
	1358	-	085	2		_	X	×							
	1429	-	095	2			X	×							
1	1442	-	690	2	1		×	×							
		Total Number of	Containers	32	Purchase Or	der	/ Stateme	nt of W	ork #			_			
1) Released by:			1) Rec'd by:	Brendon	Fisk		2) Released					2) Re	c'd by:		
Print name: K		ek	6	AK	12BF	+	Printinam					6			
Company:	Signature: Company:					Signature: Company					- 0	Company:			
Company: Windward Mark Date/Time: 2/28/18 1625 Date/Time:						Date/Time:					Da	Date/Time:			

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Wind Ward

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10	be	com	pleted	by	Laboratory	upon	sample	receip	Dt:
	-						A 147		-

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 2

Nº 3003

Project/Client Na	ct/Client Name: ADC 3							to:	AK	2						
Project Num	ber: TAS	× 4					A	ttn:	SUE	ED	UNN	1402	>	Ship	ping Date: 02.28.18	
Contact Na	me: AM	ARA VAN	DEEVOR	T								20		Shipping Date: 02.28.18 Airbill Number:		
Sampled	By: NM	, RC, TD			Fo	Form filled out by:								Turnaround requested: 570		
•						Test(s) Requested (check test(s) requi							uired)	red)		
Sample Collection Date (m/d/y)	Time	Volume of Sample / # of Sample Identification Containers Matrix					RB LANBAR	R	METALS	1,	P CB APOCHER	ITU MER	MANNY MAN		Comments / Instructions [Jar tag number(s)]	
02.28.18	6829	101,218-55-12	018-55-187 7 50			X	X	XD	< X	4	X	×	- 1			
1	OBA	LDWB-45-18		7	1	×	K	XD	X	->	XY	X				
	0915	LAW1B-55-18		7		X	X	X	XX	+>	XX	X	+			
	0944			6				X	XY	X	XY		X			
	1015	WWW BSSOT	-Dw503	6				X	XX	X	XY		X			
	1039	LDW18-46T	-2100A-1	6				X	XX	X	X		X			
and the second sec	1101	101018-5507-	2100A-2	6				X	< X	XX	XX		X			
	1123	LOWIS SOT-	2101	6				X	XX	XX	XX		×			
	1209	LDW18-4-1	Ble	7		×	×	XI	K -	+>	XY	×				
	1227	LO18-55-	185	6		×	X	XI	K	X	7	×				
autorite and a second se	1323	LDW18-SOT.	Cleanscap	5B 6				Xb	XX	X	X>		×			
	1352	LOW10-407-	Dawn Food	5 6	Y			XI	< X	X	XY		X			
Y		Total Number of			Purchase Orde	er / Stat	eme	nt of V	Nork	#						
1) Released by:			1) Rec'd by:	Branlon F	isk .	2) Rele	ased	by:					2) Re	c'd by:		
~	Print name: THAI PO						tinam					-	-			
Company: AR				Signature:							- Co	Company:				
Company: WINDIARD EN /TK Date/Time: 02.28.18/1625 Date/Time: 2/28/18				8/18	1625	Company: Date/Time:							Da	Date/Time:		

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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be comp	leted by	Laborator	y upon sam	ole receipt	t:
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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

ALC:

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

10 3004

Project/Client Na	me: AOC	3		-			Ship	to:	AR	1	-					
	ber: TA											11HOC)	Ship	ping Date: 02.7.8.18	
		ARA VANI	LEVAR	-		5						25		Shipping Date: 02.28.18 Airbill Number:		
						orm filled out by: TD Turnaround requested:					nd requested: STD					
							10									
						Context (check test (check test) requi							quired)	_		
								511	a a	K	CLO	EX-5m	2			
Sample				Volume of		K CARBI	RB LOWER	GRAIN	FUTAS	751-125	24	E n t	24			
Collection Date	Time	Constallation		Sample / # of	Marin	FLACK	99	-RA	4 F	2	2 2	-X R	22		Comments / Instructions	
(m/d/y)	Time	Sample Iden		Containers	Matrix	41	R	9	~ ~		AN	1 20 10	P		[Jar tag number(s)]	
02.28.18				SED	X	X	XX	-	X	>	×			1		
d'	1432 UN18-55-181 6			X	X	XV	<	X	7	X			/			
		/			/							/				
		/			/					V	1			/		
		/					-				1					
	/			/						1	1				/	
	/			/						K	-				/	
	/			/					1		-					
/			-A1	/			and the state	V	1					/		
/								1						/		
/			/		-		1			And the American			/	1		
/			/			/	Ĩ						/			
		Total Number of	Containers		Purchase Orde	er / State	eme	nt of \	Nork	#						
1) Released by:			1) Rec'd by:	Brandon Fi	šK	2) Relea	ased b	oy:					2) Re	c'd by:	T	
Print name:	HAN THE	9		Bar h	-HZ	Print	name	e:								
Signature:	Signature: AD Company: AD			Signature:							Ca	Company:				
Company: MJ	Company: WILL DUBLED EN NKI				Company:							_				
Date/Time:	Date/Time: Date/Time:				1625	Date	/Time	2					Da	Date/Time:		

* Distribution: White copies accompany shipment; yellow retained by consignor.

LLC environmental

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To be co	mpleted by	Laborator	y upon sam	ple receipt	
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-

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2988

Project/Client Name:	LOW NOL3	Ship to:	/IRI	
Project Number:	tusk 4	Attn:	Sve Dunnihoo	Shipping Date: 3/1/18
Contact Name:	Amera Vondervort	Shipper:	hand delivered	Airbill Number:
Sampled By:	JR, RM, KM	Form filled out by:	KM	Turnaround requested: Std.

							Test(s) Requested (check test(s) requ				uired)		
Sample Collection Date (m/d/y)	Time	Sar	nple Identification	Volume of Sample / # of Containers	Matrix	rampisite.	archive	Jal/SL	Metals	Aractors, PAH, SVOCS, PAH,	Cara Size		Comments / Instructions [Jar tag number(s)]
3/1/18	0822	LOWIS	3-55-094	2	Sediment	X	×						
	08112		- 116	2		X	×						
	0928		- 130	10		X	X	X	X	X	X		
	1000		- 1412	2		X	X						
	1008		- 143	6		X	X	X	X	X	X		
	1023		-14/2/	2		X	×						
	1032		-148	2		X	×						
	1042		-1416	2		X	×						
	1107		-147	2		X	×						
	1155		- 141	2		X	×	-					
	1218		- 103	2	-	X	X						
1	1230	1	-099	2	1	X	X						
		Total Nu	mber of Containers	32	Purchase Order	/ Stateme	ent of W	ork #					
1) Released by:			1) Rec'd by:	Symudian F	10 1	2) Released					2) Re	c'd by:	
	Kate Mil			for he	-Vale	Printinan							
	Windwar.		Company:	ARI	-	Signature					- 0	ompany:	
Date/Time:			Date/Time:	118	1620	Company: Date/Time: Da					Date/Time:		

* Distribution: White copies accompany shipment; yellow retained by consignor.



1 of 3

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2995

Project/Client Name:	LOW AUC3	Ship to:	ARI	
Project Number:	tosk 4	Attn:	Jue Dunnihou	Shipping Date: 3/1/18
Contact Name:	Amara Vande wort	Shipper:	hand delivered	Airbill Number:
Sampled By:	JR, RM, KM	Form filled out by:	km	Turnaround requested: 540.

						Test(s)	Requeste	ed (check					
Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Hisodwes	archive	75/toc	prete 15	Aportars, SVOCS, PAHS	21:55		Comments / Instructions [Jar tag number(s)]	
3/1/18	1241	LOW18-55-097	2	Sediment	×	x							
	1253	1 -096	2	Luna	X	X							
	1305	- 088	2		X	×							
	1316	- 086	21	kan Filt	X	X							
and over 1990	1340	-070	2	一 7		X							
	1356	-066	2	T-1 - V	X	JX (
	1416	-031	2	K I in	if	X							
	1435	- 030	2, 1		X	X							
	1442	-029	2		X	x							
	1454	-028	2		X	X							
	0904	-050	2		×	X							
1	1123	1 -016	2	1	X	X			-	_			
		Total Number of Containe	rs 24	Purchase Order	/ Stateme	ent of W	ork #						
1) Released by:		1) Rec'd b	Brandon 1	e di) Released	by:				2) Re	c'd by:		
	Kate pur		12	- V-A	Printinan					-			
				-						mpany:			
	Company: Windward ART				Company: Date/Time: Date/T					ate/Time:			
Date/Time: 3/1/15 1620 Date/Time: Date/Time: Date/Time:													

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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

10	o be	com	pleted	by	Laborator	y upon	sample	receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 3

2997

10

Project/Client Name: LOW ACC3								Ship to: ARI						
	iber: 1a					Attn: Sue Dunnihoo						Shipping Date: 3/1/18		
Contact Na	ame: 141	mara Vande	wort			Shipper: hand delive red								
						rm filled out							nd requested: Std	
							Test(s) Requested (check test(s) requi							
Sample Collection Date (m/d/y)	Time	Sample Iden	tification	Volume of Sample / # of Containers	Matrix	composite	archive	75/FDC	8 notals	Aractors, SVOCS, 1944	Crean Size		Comments / Instructions [Jar tag number(s)]	
3/1/18	1243	LOW18-55-0	023	6	Sediment	X	X	×	X	X	X			
1														
		/				1								
							1							
						/	/							
							/							
								1						
					*									
				/										
		Total Number of	Containers	6	Purchase Orde	er / Stateme	ent of W	ork #		-				
1) Released by:			1) Rec'd by:	Brund	OVA Fisk	2) Released	by:				2) Re	c'd by:		
Print name: /	Kate M	Poela	2	the les	ARE	Printinam	ie:			-	_			
Signature:		1	Company:	ARI		Signature					- Co	Company:		
Company: 6				1/1/1		Company								
Date/Time: 3 /1/18 1620 1620 Date/Time: 3/1/18 162			1620	Date/Time:					Da	Date/Time:				

* Distribution: White copies accompany shipment; yellow retained by consignor.



3 of 3

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

12 3.05

Project/Client Na		Ship to:												
Project Number: TASK 4							Attn: SUE DUPPOIHOD Shipping Date: 03.01.18							
Contact Name: AMARA VANDERUDRT								AND				Airbill Number:		
Sampled	By: Nh	A, RC, TD	15		Fo	rm filled out by						Turnarour	nd requested: STD	
						171.93								
					B.OA	Test(s)	Requeste	A. 5 645	test(s) req	uired)	2d)			
						ANT VIEL	NE B	n,	AP.OUL	2 P	20			
Sample		~		Volume of		COL	CHIVE	TAL	AR	E MAN	X1 X			
Collection Date (m/d/y)	Time	Sample Iden	ification	Sample / # of Containers	Matrix	BLACK PKB LC	ARCHIN	HETALS 15/106	PLB AROLLI SUDES/RAHS	EX-5mU	FURANE		[Jar tag number(s)]	ns
									17 11		AT		ljai tag number(3/)	
03.01.18	6803	LDW18-55-18		6	SED	XXX		17-	7	×				
	0839	LOW18-55-1		7		XXX	LX	7-19	X-17	X				
	0839	10018-35-1		7		XXX	CX	XY	XT	X				
	6925	LDW18-55-176		6		XXY	XX	X	7	X				
	0951	LDW18-55-1	75	6		XXY	LX	X	>	X				
	102B	1,DW18-55-	173	6		XX	XX	X	7	X				
	1048	LDW18-8-	171	6		XXY	KX	X	7	X				
	1222	LDW19-45	-172	6		XX	XX	X	7	X				
	1310	LDW18-55	170	7		XX	XX	大	XP	X				
	1334	1.DW18-55-		7		XXY	XX	XX	XY	X				
	1419	DWIB-550		6	-		XX	XXX	X		×			
1	1516	1DW18-550		0 0	1	1)	XX	XX	XX		X			
V		Total Number of			Purchase Orde	er / Statement	t of Wo	ork #						
			FIGK	2) Released by	:				2) Re	2) Rec'd by:				
Print name: "17	12A1 DD			12	N-T	Print name:				-				
Signature:	m		Company:	401		Signature: Co					Co	mpany:		
Company; WINDWARD EN AK				Company:										
Date/Time: 03.01.18/1620 Date/Time: 3/1/18 1620				Date/Time:					Da	Date/Time:				

* Distribution: White copies accompany shipment; yellow retained by consignor.

LLC environmental

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343 To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

of

2984

Project/Client	Name:	ADC3				Ship	to:	ARI							
Project N	umber:	TASK 4						SUE 1		1400		Shipp	ing Date:	03,02	.18
			NPEEVORT					HAD				AIIDIII	Number:		
		M, JR, 1			Foi	rm filled out					1	urnaroun	d requested:	50	>
														-	
1.10							Test(s) Requested (check test(s) required)								
Sample				Volume of		CONPOSITE	ARCHIVE						Gam	iments / Instruc	
Collection Dat (m/d/y)	Time	Samp	le Identification	Sample / # of Containers	Matrix	CON	AB							ar tag number(
03.02.18	0900	LOWI8-	SS-080 Men	2	SED										
1	0911		.078	2		A	x								
	0926		084	2		X	X				-				
2	0937		077	2		X	X								
1	0951		075	2		X	×								
4	1001		076	2		X	x								
	1014		174	2		×	x								
	1029		073	2		X	X								
	1044		071	2		X	x								
	1101		083	2		X	X								
	1118		079	2	-	X	X		-						
V	1214	1	013	2	2	X	X								(
V		Total Num	ber of Containers	A	Purchase Orde	er / Stateme	nt of W	ork #							
1) Released by:			1) Rec'd by:	agent of	10	2) Released	by:			_	2) Red	c'd by:			
Print name: KATE MUTEEL Still Still And The						Printinam									
Signature: ////////////////////////////////////						Signature:					Company:				
Date/Time: 02 57 1/2/ Date/Time: 0/						Company: Date/Time: Date/Time: Date/Time:									
	/	170	1100												

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* Distribution: White copies accompany shipment; yellow retained by consignor.



of 3

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Z of	3	_	CHA	IN-OF-C	CUSTO	DY/TI	EST	REQ	UES	T FC	DRN	1	10 2998		
Project/Client Na Project Num Contact Na Sampled	ber: TA		XENO17	Ŧ	Fr	A	per:	HAND	DE	and the second second		Airbil	ping Date: 03,02,18 I Number: nd requested:		
Sample Collection Date (m/d/y)	Time	Sample Ident	ification	Volume of Sample / # of Containers	Matrix	CONDOCITE	Test(s)	Requeste	d (check	test(s) req	uired)		Comments / Instructions [Jar tag number(s)]		
03.02.12	1225	LOW18-55-	017	2	SEP	X	X								
1	12394		018	2		×	X								
	1249		020	2		X	×								
	1301		019	2		X	X								
	1311		021	2		X	X								
	1321		022	2		×	X								
	1333		024	2		X	X								
	1358		044	2		×	X								
	1407		053	2		X	X					-			
	1444		055	2		×	X					-			
1	1456		056	2	/	X	X								
X	1509	V	057	2	V		×								
		Total Number of	Containers	24	Purchase Ord	ler / Statem	ent of W	ork #			-				
1) Released by:	2) Released	-			_	2) Re	ec'd by:								
Print name: K	7176	Print nar Signatur					0	ompany:							
Signature:	Signature: Company:						Signature: Company:					company.			
Company: WINTURES AIT Date/Time: 03.02.18 1700 Date/Time: 03/02/18 1700							Date/Time: Date/Time:								



Personal Area

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

10 2999

Project/Client Na	ime: ADC	13				Ship	to: /	APRI							
	ber: TA					A	ttn: 5	VE D	NUN	1400		Shipp	Ding Date: 03:02-18		
		ARA VANDE	EVORT					tond				Airbill	Number:		
		, JR, RM			Fo	rm filled out						Turnarou	nd requested: 5DD		
						Test(s) Requested (check test(s) required)									
- R-								Requeste	d (check	test(s) requ	ired)				
						t's	hive								
Sample				Volume of		isodway	4								
Collection Date (m/d/y)	Time	Sample Iden	ification	Sample / # of Containers	Matrix	Coi	are						Comments / Instructions [Jar tag number(s)]		
03.02.18	1524	LOW18-55-0		2	SED	X	X								
	1534		154	2	L	X	X								
Y	1-21			_							-				
	1														
					/										
							/								
			/				/								
			1												
		Total Number of	Containers	4	Purchase Orde	er / Stateme	ent of W	ork #							
1) Released by:			1) Rec'd by:	al whe	127	2) Released	by:				2) Re	c'd by:	I		
Print name: KATE MC PEEK Jarobhalt						Printinam	ne:			-	-		2.		
	Signature: Company:					Signature					Co	Company:			
Company: W			Data/Tim:	1 I		Company:						Date/Time:			
Date/Time: 63	0218/	1700-	Date/Time:	362/18	12000	Date/Time: Date/Time:									

* Distribution: White copies accompany shipment; yellow retained by consignor.

environmental LLC

3 of 3

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

12 3006

Project/Client Na	ame: AC	_		Ship	o to:	AK	21								
Project Num	iber: Tf	tsk4					ŀ	ttn:	50	e	W	NNI	HOD	Shipp	ping Date: 03, 02,18
Contact Na	me: At	1ARA VANI	SERVOR	不		Shipper: HAND DELD							Airbill Number:		
Sampled	By: NH	I, TD, RC			Fo	orm filled out by: TD Turnaround requested: ST					nd requested: STD				
		,					-10								
×						NO SON		Test(s) Requ	ested	check	test(s) rec	uired)		
						CAEB	66	引足	2	AROCI	Tac	177U	201	里	
Sample				Volume of				33	E.	Ata 8	1	12 M	XID	pos	
Collection Date (m/d/y)	Time	Sample Iden	tification	Sample / # of Containers	Matrix	BLACK	REB	APCHIVE	METALS	75	SUDES	FORE PORE	PLOKINS ,	TOMPOSITE	Comments / Instructions [Jar tag number(s)]
03,02.1B	0749	LDW 18-55-		1		1	17	VV		10		st in	-1 -	2	0
02,06,10	0907			2	SED	9	X	20	1	KT7	+	X		V	
	- ver	LDWIB-55-					-	VI	VA	1			1.	R	
	0849 LOWIB-55-081 2					-	-	AX	AT	XX	*		×	V	
							+	10		+	-		_	5	
	0910 LOW18-55-082 2					-		1		-	~		X		
	1131	17W18-55-	18+	7			R	XX	X	X	T	N		1	
	1224	LOW18-55-	185	7		X	X	XX	XT	* X	77	X		. /	1
	1301	LOW18-55	-001	2		-	-	X		+	-			X	
	1316	20W18-55	-049	L		-	-	X		-	-			X	
	1330	LDW18-55-	-060	2-		-	-	X		-	-			X	
	1352	LDW18-55	-659	2		-	-	T		-	-			X	
V	1410	LDW18-55-		2	Y		1	X	11		1			X	
		Total Number of	Containers	, AZ	Purchase Orde	er / Sta	teme	ent of W	ork #						
1) Released by: 1) Rec'd by: Build by					EZ-	2) Rel	eased	by:					2) Re	c'd by:	T
Print name: Then the Jacobhalt				142		ntinam		100				-			
Signature: Company: ART					nature			1			Company:				
company. / W (P VW)					mpany te/Tim			- iv			De	Date/Time:			
Date/Time:	Date/Time: 03.02.18/1700 Date/Time: 3/02/18 120			1700	Dai	e/ I im	e.					Da	te/ rime:		

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of 2

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

1.5.800

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2_ of	2	_ CHA	AIN-OF-0	CUSTOD	Y/TE	ST	REQ	UES	T FC	DRN	۱	3007
Project/Client Na	me: AO	13			Ship	to:	ARI					
Project Num	ber: TA	KK4	5		A	ttn:	SUE	DUP	JHO	Ù	Shipp	Date: 03.02.18
Contact Na	me: AM	ARA VAUDERVORT			Ship	per: H	AND	DET	1D		Airbill	Number:
Sampled	By: NM	1, TD, RC		Form	filled out	by:	TD				Furnarour	nd requested: STD
			-	1	13	Test(s)	Requeste	ed (check	test(s) req	uired)	~	
					田	B	5	.0	PAHS		Fra	
Sample			Volume of		521	APCHIVE	44	12(5	(s/	52	Cer	×
Collection Date (m/d/y)	Time	Sample Identification	Sample / # of Containers	Matrix	councilte	APA	151	m	ans	Sta	Dick	Comments / Instructions [Jar tag number(s)]
03.02.1B	1426	UDW18-55-063	2	SED	×	×						
	1509	LOW18-550T-2509	6			×	X	×	X	X	X	
03/2/18	KABAS	1201159555552	6	SNO	X	×	×	X	X	×		
.01 1.	0100	/	/	000	P	~	1					/
	/						/					
	/					-						
			- /				/					
												1
/			/			/						

		/				/							
						/					/		_ "
	Total Number of	ler / Statement of Work #											
1) Released by: 1) Rec'd by:					2) Released by: 2) Rec'd by:								
Print name: THAN	50		- 11	alla	Print nam	e:							_
Signature:	arosu	MITC	Signature:					Co	mpany:				
Company: WINDWARD ARL						Company:							
Date/Time: 03,02.18/1700 Date/Time: 03/02/18 1200					Date/Time	e:				Da	te/Time:		

Wind Ward

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be complete	d by La	boratory upo	on samp	e receipt:
the second start and a second start				

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM	510	
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of	1	_	CH/	AIN-UF-	CUSIC		E21	KEQ	UES	DI FO	JKN	Λ	3.08	
Project/Client Name: ADC3						S	hip to:	ARI					1	
Project Number: TASK 4-						Attn: SUE DUNNI HOD Shipping Date: 03.08.18 1								
		VARA VAR	DERVOR	I		Sh	ipper: +						Number:	
	d By: TD				F	orm filled o							nd requested: STD	
					1	<u> </u>								
1							Test(s) Requeste	ed (check					
				19 miles	1 -	世	LU	. \	N	ARCCLURS/ SVUCS/PAHS		22		
Sample				Volume of		12	TH	ter la	F	CLU -	3×	NAPINS		
Collection Date (m/d/y)	Time	Sample Iden	tification	Sample / # of Containers	Matrix	COMPOSITE	APCHIVE	12/ toc	METALS	SVA	GRAIN	UNO10	Comments / Instructions [Jar tag number(s)]	
03.08.19	DALLA	10118-55-		2	SED.	X	X			*	~	1		
1.00.00		LOW 19-407-			V		X	X	×		×			
	VIVS	Lawy Mr M.	LATA I WIN		~	-	-	.~	×	X		X		
	/		* /	r		/	-				/	-		
	/					1	+				/			
	/		/		/						/			
			/		/					/				
/			/		/					/			7	
/		/	/		/					/				
		/			/				/					
		/		/	(/					
		/		1				1		_				
		Total Number of	Containers	0	Purchase Ord	ler / Staten	nent of W	ork #					,	
1) Released by:			1) Rec'd by: S	rephanie ~ FKM	Fishel	2) Release	d by:				2) Re	c'd by:	Γ	
	241 Ta	2	watar	V. F.RW	N	Printina				-	-			
Signature: Company: MASWARD GOV.					Signatu					Co	mpany:			
					Compa Date/Ti					Da	ate/Time:			
Date/Time: 03.08.18/1610 Date/Time: 3/8/18 1010				610	Date/Time:									



of

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Laboratory W.O. #:	4
Time of receipt:	
Received by:	ŝ,
	Time of receipt:

of		_ CH/	AIN-OF-	CUSTO	DY/T	EST	REQ	UES	T FO	DRM	1	12 3058
Project/Client Na Project Num Contact Na Sampled	ber:	Tasky Tasky AETAV	Vor 4	 For					unit vere	d	Airbil	ping Date: <u>2 2 8 18</u> Il Number: <u></u> Ind requested: <u>S+ d</u>
						Test(s)	Requeste	ed (check	test(s) rec	uired)		
Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Prel PAH	Arsenic toc/TS	Durint	Grain	Block Colber	Archne		Comments / Instructions [Jar tag number(s)]
2/28/18	1302	LOWIS-55-Corpoz	6	Sectionent-	X	X	X	Х	X	X		
	1330	1-DW18-55-(0mp18	6	Sediment	X	X	. X	X	X	X		
2128/19	1355	LOW18.55-Comp22	(0	Sedment	X	X	X	X	X	X		
0138/18	1916	LOWIS-SS-Lupds	10	Sed ment	A	N	X	X	X	¥.		
									×			
		Total Number of Containers	241	Purchase Order			ork #					
1) Released by:	and an	1) Rec'd by: 13	vendon	hisk -	2) Released Print nan					2) Re	c'd by:	
Print name: A Signature:	AVa	denot Company:	I-PI		Signature					Co	mpany:	
Company: 1	India	aid ?	TAI		Company							
Date/Time:	28]	18 1423 Date/Time: 18 1423 2/2	3/18	1423	Date/Tim	ie:				Da	ate/Time:	

Ward environmental LLC VV IIIC

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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

· Jean													
of		CH/	AIN-OF-	CUSTO	DY/TI	EST	REQ	UES	T FO	ORN	1	3.59	
Project/Client Na	۰ me:	A063			Shir	o to:	A	RI				11	
Project Num		TAGUL				Attn:	G	0.0	1200	ihi	Shin	ping Date: 3 5 1 9	
Contact Na	A	mara Vanderu	NC		Ship	11	10	EU		LIKLI		I Number:	
Sampled	(ALLITO	ULT		rm filled out		and	20 11	ild				
Jampieu	Бу	AVIJA		FOI	rm filled out	. by:	7-9	V			Turnarou	nd requested: <u>St.d</u>	
						Test(s)	Requeste	ed (check	test(s) rec	uired)			
						5	2	N	pro	0	-		
Sample			Volume of		PALL	20	< 2	2	Cal	200		1	
Collection Date			Sample / # of		PA	AS I	30	AICH	Bleef	34		Comments / Instructions	
(m/d/y)	Time	Sample Identification	Containers	Matrix	4	4	0	4	62	9		[Jar tag number(s)]	
3/5/18	1345	LOWIS-SS-CORDOG	6	Spannt	X	X	X	X	X	X			
	1.102	LOWIS-SSEWDO7		-	×	X	.X	×	X	X			
4 100	1419	LOWI8-55-Complo	4		X	X	X	¥	¥	X			
	1435	LOWIS-55-Compt7			X	X	X	X	X	X			
315/18	1452	LOW18-SS-Conol9	to	Sedment	X	X	X	Y	X	X			
315118	1522	LOW18-55-Corp13	(0	Sednert	X	X	X	X	X	X			
315/18.	1537	LOW18-55-6224	(.0	Sedment	X	×	X	Y	X	Y			
			-						-	/			
				•									
		Total Number of Containers	42	Purchase Orde	r / Stateme	ent of W	ork #	0 2	018	-00	57		
1) Released by:		1) Rec'd by:	1		2) Released	2) Released by: 2) Re					Rec'd by:		
Print name:	maral	landervort Stephe	me H	SNEL	Print nam	ne:			-				
Signature:	Wv q	Company:	701		Signature					Co	mpany:		
Company: Windward 11K					Company:								
Date/Time:	3/51	18 1552 315	112	1552	Date/Tim	ie:				Da	ite/Time:		

Ward environmental LLC

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

T	be completed by Laboratory upon sample receipt:							
Date of receipt::	Laboratory W.O. #:							
Condition upon receipt:	Time of receipt:							
Cooler temperature:	Received by:							

of	ιψ.	CH	AIN-OF-	CUSTO	DY/T	EST	REC	QUES	ST FO	ORN	1	3.60
Project/Client Nar Project Numb Contact Nar Sampled	me:	ADC3 Tasky Mera Vanders Aulkon		_	Shi	p to: Attn: Soper:	ue D and P	AR	T	4	Ship Airbil	ping Date: <u>31618</u> Il Number:
Sample Collection Date (m/d/y)	Time	Sample Identification	Arucial PA-4	Test(s)	Request Pass No.	ed (check	test(s) rec			Comments / Instructions [Jar tag number(s)]		
3/6/18	1040 1103 1146 1246 1246 1246 1246 1246 1257 1257	LOW18-SS-Comp 14 LOW18-SS-Comp 15 LOW18-SS-Comp 21 LOW18-SS-Comp 23 LOW18-SS-Comp 23 LOW18-SS-Comp 29 LOW18-SS-Comp 29 LOW18-SS-Comp 29 LOW18-SS-Comp 12		Sed.ment	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
1) Released by: Print name: Ac Signature: Company: W Date/Time:	Purchase Orde	rder / Statement of Work # Phi 2018-0052 2) Released by: 2) Rec'd by: Print name: 2) Rec'd by: Signature: Company:						2				



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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

of		CH4	NIN-OF-	CUSTO	DY/TI	EST	REQ	UES	T FO	DRM	1	Nº 3009
Project/Client Na Project Num		AOC3 Tasky		<	Ship	to:	· A	RI	4.5		Ship	ping Date: 2/9/18
Contact Na		Amara Vanderios		Ship			Oeli				Number:	
Sampled	By:	DISPAN AVKN	For	rm filled out	by:	Af	EV			Turnarou	nd requested: <u>STD</u>	
						Test(s)	Requeste	ed (check	test(s) rec	uired)		
Sample Collection Date (m/d/y)	Time	Sample Identification	AS 1751	Arocleis/	Giam	Archie	Durint	Block		Comments / Instructions [Jar tag number(s)]		
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- /				*			-					
	J.											
- t		Total Number of Containers	6	Purchase Orde	2) Released		ork #	10#	201	8-1	552	2
1) Released by: Print name:	A A A A A A A A A A A A A A A A A A A								_	2) Re	c'd by:	
Signature:										Co	ompany:	
Company: Date/Time:										Da	ate/Time:	



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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

of		CHA	AIN-OF-	CUSTO	DY/TE	ST R	EQUE	ST FO	DRN	1	3010		
Project/Client Na Project Num Contact Na Sampled	ber:	AOC3 Task4 Amora Vanden Avikm	Ship Att Shipp rm filled out b	tn:	AR 1 Se A AFV	iver,		Airbill	Ding Date: 3/9/18 I Number:				
i.						Test(s) R	equested (cheo	k test(s) req	uired)	:d)			
Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Nichive						Comments / Instructions [Jar tag number(s)]		
39/18	1144	Windward	45	Seliment	X						TIERPHALD		
319/18	1174	wedword 2	38		X								
319/18	1144	Windword 3	Sediment	X						Turnin			
314/18	11-14	Windword 4	T						FLEETE + HDLD				
		-			_								
					16.		1.4 64	+20	VI 6				
		Total Number of Containers	1 Len	Purchase Orde	2) Released b		IK #) de		c'd by:			
1) Released by:	Mara	1) Rec'd by:		2) Released to Print name				2) 110		-			
Signature:									Co	ompany:			
Company:	Company: Unduard TIL						Company:						
Date/Jime:	181	235 Date/Time:	2:35	Date/Time: Date/Time:									



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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343 To be completed by Laboratory upon sample receipt:

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

12 3072

Project/Client Na	me: LDU	ADC3		Ship	to: 💾	RI								
Project Num	ber: Tack	: 4				A	ttn: St	Je O	UNIN	hoo		Ship	ping Date: 5-15-2018	
Contact Na	me: Am	ava Vonderv	ort			Shipper: Hand Delivered Airbill Numb						Number:		
Sampled	By: 5.1	Replinger			Fo	Form filled out by: <u>S. Replinger</u> Turnaround requested: <u>Std.</u>							nd requested: Std.	
		. 0												
						Test(s) Requested (check test(s) required)								
1						3	0 C	5	lors/	1/r Srti	_ 0)			
Sample Collection Date	.÷.			Volume of		Archive	Ts/roC	rnedals	SK	MOXIN/	SIZE			
(m/d/y)	Time	Sample Iden	tification	Sample / # of Containers	Matrix	Are	5	YY	Arcclor svacs/pa	NG.	200		Comments / Instructions [Jar tag number(s)]	
5.15.2018	1023	LDW-SSOT-2510 6 Sec			sediment	×	×	×	×	*	×			
3-15-2018					sediment	*	×	×	×	X	×			
						_				1				
					1									
		Total Number of	Containers	12	Purchase Orde	er / Stateme	nt of We	ork #						
1) Released by:	1) Released by: 1) Rec'd by: Seroby-alt					2) Released	by:				2) Rec	c'd by:		
Print name:	Print name: Si Ranne Replinger Mach				2	Print nam	e:							
Signature: 🥧				9587	Signature					Cor	mpany:			
the second	Company: Windward Env. 40 SILS			C2:0 C	Company: Date/Time:						Date/Time:			
Date/Time: 5-	Date/Time: 5-15-2018 1632 Date/Time: 5/15/18 1632						9:				Da	te/Timé:		

* Distribution: White copies accompany shipment; yellow retained by consignor.

Wind Ward

of

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around	Requested:			Page:	/ of	3			Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)			
ARI Client Company:	NARP	Phone:			Date:	lca Pr	e resent?						
Client Contact: AMANA		DERV	ont		No. of Coolers:		ooler mps:		LIGAL		ilabs.com		
Client Project Name: Du	WANTS	· H				1	Analysis	Requested		1	Notes/Comments		
Client Project #:	Samplers:												
Sample ID	Date	Time	Matrix	No. Containers									
LANIS-PUPS - SSIGY	04/13/14	31m	Polyethylare	(
4PWIS-PUPS -SS170	11	ŧ(4	1									
LOWIG-PUPS -SS174	14		15	1									
LOWIX-PWRS -SSI74(QUP)	1.6	ц	(3	1									
LOWIS-PWBS - SSI78	15	u	.,	1									
40018-pups - 55179	14	11	1 Č	1									
LOWISTUB -55183		51	4	1									
LANIS-PWES - 55184	ι <u>ς</u>		11	1									
47418-AUPS -55186	(C	Д	1 c	1									
20W18-AUBS - 55187	Q.	1(11	1	_								
Comments/Special Instructions	Relinquished by: (Signature)	Tall		Received by: (Signature)	alis		Relinquished	i by:		Received by: (Signature)			
Printed Name: DOSE GOMEZ-E94ES Company: TATEGRAL CONSULTENG				Printed Name:	NNNIHO	2		rinted Name:			9:		
				Company	M		Company:			Company:			
					15:15	Date & Time			Date & Time:				

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around				Page:	2	of	3			Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100 Tukwila, WA 98168 206-695-6200 206-695-6201 (fax) www.arilabs.com			
ARI Client Company:	NARD	Phone:			Date:		lce Pres	ent?						
Client Contact: AMANA		DENVO	27		No. of Coolers:		Cool Temp							
Client Project Name:	AMIST			- i				Analysis I	Requested			Notes/Comments		
Client Project #:	Samplers:													
Sample ID	Date	Time	Matrix	No. Containers										
LOWIR-PURS -55 188	04/13/18	3pm	Rhelliena	1							1			
2PW18-PWPS - 5517	1)	11	3)	i										
LOWIG-PUPS - 55172	.(4	.(1										
40M18-pups - 5517-3	i ii ii													
20W18-PWPS-35175	16	ŧ(34	1				1.0						
LOWIG-POURS-SSI76	11	13	13	1				1.1						
LOWIS -PUPS - SS177	16	(1	15	1										
47W18-PWP> - 55160	4	11	4.5	1										
LOW18-PUIS - 55181	12	t ((1								
LOWIR-PURS- SS18Z	k	h	1)	1		~								
Comments/Special Instructions	Relinquished by: (Signature) (Signature)				60	Qui		Relinquished (Signature)	by:		Received by: (Signature)			
	Printed Name: DOSE GOME2 - EYLES SDU Company: Company:				UNNI	400		Printed Name	9:		Printed Name	ə:		
					AM			Company:			Company:			
	TATE GRAC CONSULTING 7 Date & Time: Date & Timer DA/13/18 >115pm 021/13/1					15-15 Date & Time:					Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or cosigned agreement between ARI and the Client.

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Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around	a contract of the second second			Page:	3	of 3			Analytical Resources, Incorporated Analytical Chemists and Consultants 4611 South 134th Place, Suite 100				
ARI Client Company:	WARD	Phone:			Date:		Ice Present?			7	Tukwila,	WA 98168 -6200 206-695-6201 (fax)		
ARI Client Company: Client Contact: Client Project Name:	VAN	Deruk	TAC		No. of Coolers:		Cooler Temps:				www.arilabs.com			
Client Project Name:	OWAM	5ft				T	Ana	lysis Reque	ested	1	T	Notes/Comments		
Client Project #:	Samplers:	Samplers:												
Sample ID	Date	Time	Matrix	No. Containers										
2 PW18-PWPS-55185	04/13/48													
2 PWIS-PUPS-SSI85 LOWIS-PUPS-EXP-BIL	16	N]	Rythe	1										
Comments/Special Instructions	Relinquished by:	-22	<u> </u>	Received by:	Chrs		1.17	quished by:			Received by: (Signature)			
	Printed Name:	(Signature) (Signature) Printed Name: Printed 327E GovAEZ Company: Compa						(Signature) Printed Name:						
	INTEGEA Date & Time:	INTEGRA/ CONSITENG			A/II 3/18 15:15,			Company: Date & Time:			Company: Date & Time:			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

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to	3	S	8.	9	
10.22	3	- 8	U	÷Š	

Project/Client Na	ame: LD	W.ACC3-	intertidal	sed.		Ship to:	ARI							
Project Nurr	iber: the	sh.4						unihor	a		Ship			
Contact Na	ame: A.	Vandervo	A-								Alabi	ping Date: 6-12-2018		
Samplec	d By: 🛛 🗸	Vinduard				Shipper: <u>bund-delivered</u>						Airbill Number:		
						Form filled out by: S. Replinger Turnaround requester						nd requested:SF3.		
i ji						Test(s) Requested (check test(s) required								
						5				(cd)				
Sample				Volume of		L IV								
Collection Date				Sample / # of		Hold						Comments / Instructions		
(m/d/y)	Time	Sample Id	entification	Containers	Matrix	ISE						[Jar tag number(s)]		
6.12.2018	1000	LDW18-174	5 - CL04-Ad		sediment	×								
	1002	i de la composición de la comp	1 -AØ	21	a section of the sect	×								
	1018		-Ad	3		×								
	1025		-A04	1		X								
	1048	1 1	V -Adf	5		×								
	1145	LON18-1745				×								
	1141	9.1.0.4 V 10.	1 -A(02			×				_				
	1140	+ +	+ -A03			×								
	1052	LDW18-1745		1		×								
	1035		1 -30!	1		X								
	0950		-CØI	1		X								
	0932	~ ~	V -CO2	1	1.	X			-	-				
		Total Number o		12	Purchase Orde	r / Statement of	Work #							
1) Released by: A Hawkey 1) Rec'd by: Jaron Sale						2) Released by:				2) Rec	'd by-			
Print name: HOUN Hawley hadlet					(Print name:				_)e	<i>u</i> 0 ₁ .			
Signature: He thanken Company;						Signature:				Con	npany:			
Company: Windward AN					Company:									
Date/Time: Date/Time: / Date/Time: / 0/12/18 1455 00/12/18 1455				f JT	Date/Time: Date/Time:									

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To be comp	leted	by	Laborator	y up	on san	nple	receipt:
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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

of <u>3</u>

Project/Client Na Project Num Contact Na	Project/Client Name: <u>LOW Acc3-mkr. Fidel sediment</u> Project Number: <u>tsk 4</u> Contact Name: <u>A. Vandemont</u> Sampled By: <u>X</u> <u>Windward</u> <u>Sediment</u> Sampled By: <u>X</u> <u>Windward</u> <u>Shipping Date: 6.12.2018</u> <u>Kirbill Number</u> <u>Form filled out by: <u>S. Reptinger</u> <u>Turnaround requested: <u>Std.</u></u></u>												
Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Hold (persing)	sst(s) Request	ed (check	test(s) rec	quired)		Comments / Instructions		
6-12-2018	1023	LDW18-1745-CLOG-Cd3		sediment	×						[Jar tag number(s)]		
	1058	1 1	1		×								
	1207	LOWI8-1745-CL13-A01	1		X	_							
-	12.05	A02	1		×								
	17.24	-AØ3			×								
	1218	V V V - ADA			×								
		LOWIE-1745-895- EØ3			×								
	1048	-DØ3	1		×								
	1215	-FØ1			X								
	0945	-0777	1		1								

	0921		t.	1	The set		3	11	1										
	_4421				-DØ		1		1	X									
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	1611	~		*	1 - F-C36				V	×									
Total Number of Containers 12 Purchase Ord								ase Ord	rder / Statement of Work #										
1) Released by:	1) Released by: A. Hawley 1) Rec'd by: Jarobra Her								2) Delaural										
								2) Released by: 2) Rec'd by:											
					han	CL	et-		-	Print nam	e:								
Signature: AC	ittens les	r'		1	Company:		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		0	Finnester			_		-				
				- E	Company.	r				Signature		_	_		Co	Company:			
Company: W	mawan	in a			AN					Company									
Date/Time:	Date/Time: 6/12/18 1455 Date/Time: / 1455								· · · · · · · · · · · · · · · · · · ·			_		_					
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	1- (.0	£	()/		06/12/	18	14	55											

Wing Ward

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be com	pleted by Laboratory upon sample receipt:
Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

O				AIN-OF-		in the	4						Nº 3079
Project Nun Contact N Samplea	ame: A	Disk 4 Vandervart Nindward		Ship	Ship to: AR Attn: Drunihoo Shipping Date: 6.12.2018 Shipper: hand-bluercd Airbill Number: 5.76.1 prm filled out by: S. Replinger Turnaround requested: V								
			1005	Hard Bridge			Test(s	s) Request	ted (chec	k test(s) rea	nuired)		
Sample Collection Date (m/d/y)	Time	Sample Ide	ntification	Volume of Sample / # of Containers	Matrix								Comments / Instructions [Jar tag number(s)]
6.12.2018	1215	LOW18-1745 -	- 8P5-F04	1	sediment								
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	1147		-EØ1	1									
	1225		- F03	1									
	1106		-D04	1					1.1				
_	1149	and a fill	-E-\$2		1								
*	1213	and I	* *FØZ		V								
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							100						
		Total Number of		1	Purchase Orde	er / Stateme	nt of Wo	ork#					
1) Released by: I tailey 1) Rec'd by: Jacoba of the 2							oy:				2) Re	c'd by:	
Print name: Hobby Hawley Company:						Print name	:						
						Signature:	1			_	Co	mpany:	
Date/Time: 6 17 18 1455 Date/Time: 1455 Distribution: White proving accompany chieves to all 14 14 14 14 155						Company: Date/Time					Dat	te/Time:	Contraction of the second s

Wind Ward

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be con	npleted by Laboratory upon sample receipt:
Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

100

of	20010490	_	CHA	AIN-OF-	CUSTO	DY/T	EST	REQ	UES	ST FO	ORA	1	No oreo	
Project Num	ber:	W ACC3 - Ir 251- 1 Jandenvant	Vertidad o	Codiment +1	<u>2011-</u> 501	/		ARI Sue Ì					112 3 1 0 2 ping Date: 6 · 12 · 2018 I Number:	
	By: Wiv				Fo	rm filled out	t by:	3. fer	oling	er c			nd requested: 512	
						Test(s) Requested (check test(s) required)								
Sample Collection Date (m/d/y)	Time	Sample Iden	tification	Volume of Sample / # of Containers	Matrix	TS/TOC	Sichard	Amichae/ Svolge/A	grain Size	Archine,	dicxin land		Comments / Instructions [Jar tag number(s)]	
6.12.2018		LDWI8-BNKE		7	sediment	×	×	×	×	×	×		extra for grainsize QC	
6.12.2018	1235	LOWIS-BNK	5-FFD	6	sediment	· ×	K	¥ .	×	×	×			
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			1		1		1			/				
		Total Number of		13	Purchase Order	/ Stateme	nt of Wo	ork #						
	Released by: <u>B. Burgemst</u> 1) Rec'd by: Jarobhalte						by:				2) Red	2) Rec'd by:		
Signature:	Print name: Schr Bergguist Company;					Print nam Signature:		-			-			
100 million 100	Company: Windward ARZ					Signature: Company: Company: Company:								
Date/Time:						Date/Time: Date/Time:								



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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Project/Client Na	me i c	W A0C3-1	aladin -	-	June 1	÷	ě.	0.01					4.1981	3000	
Project Num	ber:	A A	CHATHCE 3	nd t narik	- 501	and the second second	Contraction of the local division of the loc	ARI	Chilling and		- Anderson				
Contact Na				1 . 21					Dunih					6.13.2018	
Sampled		Vandervon	Sales -	ANAL -		Ship		-	delin			Airbill Number:			
Sampled	ву:	Andwer1		CONC.	Fo	rm filled out	by:	S. 120	pling	er		Turnaround requested:			
· · · · · · · · · · · · · · · · · · ·				The state		5-2	T		<u> </u>			_			
			-162			1 2	l est(s)	Request	ed (check	test(s) rec	uired)	1	1		
			-senter	1.00		par									
Sample Collection Date				Volume of		PHOLA (
(m/d/y)	Time	Sample Ider	ntification	Sample / # of Containers	Matrix	Hold			-			-		nments / Instructions Jar tag number(s)]	
6-13-2018	0950	10W18-1745-0	107-BOI	(Sediment	4									-
	1044		1 -A01	T		1				14					
	0920		-C.ØI	1		X									
	0937		- C.C.2	and a second sec		X	-								
	0918		-302	1		1									
	0938	4 4	J - BOD			X									
	1215	LOWIS-1745-C	L08- 805	1		X									
	1155		-804	I.		X				-					-
	1300		- 343	1		×	1								-
	1147		-501			X	1	1							
	1127		-302			X									
1	12.05	4 4	1 - AØI		Y	X									-
{		Total Number of	Containers	12	Purchase Orde	r / Statemei	nt of Wo	ork #							
1) Released by:			1) Rec'd by:	gaton 1		2) Released b	y:				2) Re	c'd by:			-
Print name: Appara Vandervot Former Fort						Print name	:								
Signature:						Signature:					Co	Company:			
	Company: Undword MA					Company:									
Date/Time: Date/Time: Date/Time: 13/19 1626						Date/Time: Da					Da	ate/Time:			

* Distribution: White copies accompany shipment; yellow retained by consignor



of

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

0

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

12 3081

Project/Client Na	ame: LOV	VADO3	- mt	ertidal s	Sel	Contraction of the second	Ship	o to:	ARI	- Seeting	a de la como	Annes	and the		
Project Nur	nber: tes	h4			Sec. 1		Attn: Sue Durnhad							ping Date: 6-13-2018	
Contact Na	ame: <u>A</u>	Varider	vor-		Ex.		Shipper: hand delivered					2	Airbill Number:		
Sampleo	d By:	Andusy	2	- Manual VI	and the second	For	m filled out	by:	S. Rea	olina	er.			ind requested:	
								rm filled out by: <u>S. Replinger</u> Turnaround requested: <u>S</u>							
						Lest(s) Requested (check test(s) required						-d)			
	100			- Super			Pendi	12							
Sample					Volume of	-	~ ~	alloruly sui						12 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	
Collection Date (m/d/y)	Time	Samr	le Ident	ification	Sample / # of Containers	Matrix	Hold	thrs.						Comments / Instructions	
					containers									[Jar tag number(s)]	
613-2018	1015	LOWIX- D	<u>45-B</u>	P4- 8061		Sediment									
	1035		1	-A01			$\left \right\rangle$								
	0958		-	-C@1	6		X								
	1017		-	-304			K		. .						
	160		1	-803	1		X								
	1242			-EØS	Charge		×								
	1235	200-		-E07	100		×								
	1104			-302			X								
	1250			- F-06	ě		X								
	1249			-EØ4	Pre a pre		×	1							
	1155			-FOSI	Landa		X								
~	1055	Y	1 3	V -B05	ł		×							1	
1		Total Num	ber of		12	Purchase Order	/ Stateme	nt of Wo	ork #						
1) Released by:				1) Rec'd by:	Speece Joint P		2) Released	by:				2) Re	c′d by:		
Print name:	marca Va	indquol	+				Print nam	e:							
Signature:	tonava	Value	-	Company:	401	-	Signature					Co	mpany:		
Company: ()	Under	ard			ANI		Company						and the second		
Date/Time: Date/Time: Date/Time: 16726					1626	Date/Time	2:				Da	ite/Time:	1 Mary		
the set of	5 117 ·	LUCAL	15	1. 1. 10	1.11	RA L-R									

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2 of 5

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

То	be com	pleted b	by La	borato	ry up	oon s	ampl	e recei	pt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

		_	0		cono			ILLY				/ 1	3494		
Project/Client Na	ame: _LO	W ADC3-IN	Hertidal S	ediment		Shi	p to:	ARI							
Project Num	nber: Trs	h q							nihao			Ship	ping Date: 6 13. 2018		
		landensat							instead			Airbill Number:			
Sampleo	By: win	desard	Fo	orm filled ou						Turnaround requested: Std.					
6						10		_	_	_					
						1	Test(s) Request	ed (check	test(s) req	uired)		-		
						Per	ur po								
Sample				Volume of) ?	450						30		
Collection Date (m/d/y)	Time	Sample Ider	ntification	Sample / # of Containers	Matrix	1-los	2						Comments / Instructions [Jar tag number(s)]		
6-13-2018	1208	LDW18-1745-6	3P4-001		Sediment										
1	1228		1 -EQ3		1	X									
	1233	1 L	V -E02	i		X		-			E.				
		LDW18-1745-CL05-BØ2				×									
	0943		[-BØ]	licen		X									
	1017		- AØ2			X									
	1055		- CO1	í		X									
	1108	L L	-303	l		X									
	1152	LOW18-17-5-C	106-A02			X									
	1214		1 - A01			X									
	1226		1 - A03			X									
V	1309	LDW18-1745-C	103-201		V	X									
	1	Total Number of	Containers	12	Purchase Orde	er / Stateme	ent of W	ork #							
1) Released by:		7	1)Rec'd by: 👙	rander	Figk	2) Released	by:				2) Re	c'd by:			
1.1	mora	landout		le	AF-5	Print nam			_		-				
Signature: Company: 7	Made	ling	Company:	ARI		Signature			_		- Co	Company:			
	Complete States and the second states of the second	the second s	Date/Time:			Company:						Date/Time:			
Date/Time: 6/13/18/1626 6/13/18/1626						Date/Time:						Date/Time;			

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of _ 5

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

3105

Project/Client N	lame: LDV	N ACC3-INI		Shij	p to:	ARI								
Project Nur	mber: tos	k4				/	Attn:	0 1	Inn	hon		Ship	ping Date: 6-13-2018	
Contact N	lame: A,	Vandervor.				Shipper: hand delivered						Airbill Number:		
Sample		lindward			 Fo	orm filled out	· · · · ·	100 million (1990)	plina				nd requested:St_2.	
	_					2.12	D III PU			Turnarou	<u> </u>			
0					2	Test(s)) Requeste	d (check	test(s) req	uired)				
						PH	3					-		
Sample				Volume of		Hord (pendi	instalchu		સ					
Collection Date (m/d/y)		Constant I		Sample / # of		Prof	434						Comments / Instructions	
	Time	Sample Ider	ntification	Containers	Matrix	2 4	2						[Jar tag number(s)]	
6-13-2018					sediment	- X								
	1120	WW18-1745-CLI3-205 1				K								
	1220		- A 09			×								
	1230		-AU8	ll		×								
	1310		-A10	, Apple 1		×								
_	1330		-A11	[]										
	1125		- A06			×			_					
	1155	1 1 1	V - AØ7			×								
	1045	LOWIS-1745-B	P5-FØ7			×								
	1200		-F09	a summer of		×								
	1305		-Fiz		·	X								
V	0950		- 801		V	×								
		Total Number of	Containers	12	Purchase Orde	r / Stateme	nt of Wo	ork #						
1) Released by:	1	1	1) Rec'd by:	Scor den	Fick	2) Released	by:				2) Red	c'd by:		
1010	17 17	andonult		the	ST 2-	Print nam	e:	_						
Signature:	11	durit	Company:	4R1		Signature:					Co	mpany:		
Company:	Wind	weid		<u> </u>		Company			_	_				
Date/Time:	012/18/1626 Date/Time: 1626					Date/Time:					Da	Date/Time:		

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

4 of <u>5</u>.

2 3106

Project/Client Na		N A0C3 - 11	ntertidal s	ediment		SI	ip to:	ARI						
Project Num	ber: tag	h-4					Attn:	Sie	Dunn	ihoo		Shipp	ping Date: 6.13.18	
Contact Na	me: <u>A.</u>	Vandurvert				Sh	ipper:	1		ivered			Number:	
Sampled	ву: <u> </u>	Raplinger	[Windware	1		Form filled o	ut by:	S. Ref				Turnaround requested: std.		
	0-	'0												
<u>V</u>							Test(s) Requeste	ed (check	test(s) req	uired)	_		
						al C	3							
Sample Collection Date				Volume of		hive to t	20105						Đ	
(m/d/y)	Time	Sample Ide	ntification	Sample / # of Containers	Matrix	1 A A A A A A A A A A A A A A A A A A A							Comments / Instructions [Jar tag number(s)]	
6.13.2018	0011	LOWIS-1745-	-BPS-FOR Sediment			nt X								
	1207	Scottered	1 - FIO		1	X								
	1220	arriad a	-F14		1	X								
	1231		-F12	- A A MERINA		X								
	1250		-F11	rubus		X								
	1019		- A01	B.		X								
1	1045		-FOL			X								
	1337		-G-01			X								
	1330	~ ~	V -E15	and the		X								
V					V									
		Total Number of		9		rder / Staten	ent of W	ork #						
1) Released by: A	- 11	1 7	1) Rec'd by: /	henden F		2) Release			_		2) Re	c'd by:		
Print name: A	Marp V	and ist t		2 - Al	KF-3	Print na				_				
Signature:	4 Va	and	Company:	AR1		Signatu					Co	Company:		
Date/Time: (013)15 1626 Date/Time: 1626					Date/Ti	-				Da	te/Time:			

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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343 To be completed by Laboratory upon sample receipt:

2

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

of		â
	-	11

3 4 9 5

D i della i i				<i>a</i>											
Project/Client N	ame: <u>1.00</u>	J AOC3-interki	on Stan	ment & bank	Soil	Shij	p to: 🏒	421							
Project Number: <u>Task 4</u> Contact Name: <u>A</u> . Vandervart						Attn: Sur Dunnihus							Shipping Date: 6/13/18		
						Ship	per: <u>//</u>	end de	1.200	/			I Number: WA		
Sampled By: Interdeded						orm filled out	t by:	1 parp	ork				nd requested: std.		
×	P	T					_								
							Test(s)	Requeste	ed (check	test(s) rec	uired)	_			
						U	5	anis		2	~				
Sample Collection Date				Volume of		100	fort	141	2.2	A.	UNING				
(m/d/y)	Time	Sample Identific	ation	Sample / # of Containers	Matrix	121	Statist	11.00	Grain S. 2.e	HICKINE	Dax		Comments / Instructions [Jar tag number(s)]		
6/13/18	1038	LOWIS-BNK3-	-1	6	Sectionst	X	×	5	×	×	X				
	0945	1. Auli 8-BNK3-			(Landard Contraction of the second se	X	X	X	×	X	X				
	1820	LOW 8- 604 3-		4		×	X	X	X	X	X				
	0123	LOWIS-BAIKY-				- V	X	×	X	×	X				
	0930	LDWIS- BNK 4-	Zu			X	X	×	X	X	X				
	0936	LOWIS-BALK 4-	-3		no	and the	×	X	X	X	X				
	California de la constante a constante da co	E.M.	a pare	24											
				L13113	harden										
			_												
					_		100 m 100	and the second second	mare						
	110	Total Number of Cor	ntainers	36	Purchase Orde	er / Stateme	nt of Wo	ork #							
1) Released by:	4 Jara		Rec'd by: 3	condon j	Fick	2) Released	by:				2) Rec	d by:			
Print name: ~	KImar				H.A.	Print name					_				
Signature: Company:	Aladin	0	Company:	ARI							Cor	mpany:			
Dato/Times	Data/Lima,					Company:									
6	1318	1626	6	113/18	1626	Date/Time					Dat	Date/Time:			

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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be completed t	y Laboratory	upon sa	mple receipt:	:
		the second damage in the second damage is not		-

Date of receipt::	Laboratory W.O. #:							
Condition upon receipt:	Time of receipt:							
Cooler temperature:	Received by:							

CHAIN-OF-CUSTODY/TEST REQUEST FORM	10
------------------------------------	----

3107

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Project/Client Na	ame: LDW	AOC3-Int	cutidal a	f bank sa	mpling	Shij	e to:	AR-1					
Project Num	ber: TAS	KA				Attn: Sue Depnihoo						Shipping Date: 06.14.18	
Contact Name: Amara Vander Vert							Shipper: hand del'd					Airbill Number:	
Sampleo	By: Wi	ndward			For	n filled out					-	Turnarour	nd requested: Std.
*							_						
15							Test(s)	Requeste	ed (check				
						R	5	2-3		Y	200		
Sample				Volume of		1700	Netals	Clo HS	aze.	i'Y	N2		a
Collection Date (m/d/y)	Time	Sample Iden	tification	Sample / # of Containers	Matrix	5	Z	Avclor SUDCS,	Guain	Anchine	Dibkins/	t) l	Comments / Instructions [Jar tag number(s)]
66.14.18	0945	LDW18-BI	UK-1	6	Sediment	X	X	×	×	×	\times		
J		LDW18-B		+	Jun Inthe	X	×	X	×	X	X		
4	4 Marris Cart			N.	<u>v</u>							-the	
										1			
												2	
	_											and the second s	
									_			19	
					- •:					· ·	_		1
		Total Number of	Containers		Purchase Order	/ Stateme	ent of We	ork #					
1) Released by:			1 Rec'd by:			2) Released	by:				2) Rec	:'d by:	
	Cape Mar		Steph		1Shed	Print nam	ie:						• • • • •
Signature: 🦟	e e e e	Provide State Stat	Company:	Ln I	_	Signature	<u> </u>				Co	mpany:	
Company: W			1	<u>lill</u>		Company					_		
Date/Time:	Date/Time: 06.14.18/1605				Date/Tim	e:				Dat	Date/Time:		

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of

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:						
Condition upon receipt:	Time of receipt:						
Cooler temperature:	Received by:						

) of	of 7 CHAIN-OF-CUSTODY/TEST REQUEST FORM 3108												
Project/Client Na	Project/Client Name: LDW ADC3-Intervideal & bank sampling Ship to: AEI												
											Ding Date: 06.14.18		
Contact Name: AMANDA VANDERVORT Shipper: MAND DEUD Airbill Number:													
Sampled By: WINDWARD Form filled out by: S. Pap Inger Turnaround requested: STD													
A						5	Test(s)	Requeste	d (check	test(s) rec	uired)		
Sample Collection Date (m/d/y)	Time	Sample Iden	tification	Volume of Sample / # of Containers	Matrix	Hord Pervolus compositiva							Comments / Instructions [Jar tag number(s)]
06.14.18	1325	LON19-1745-B	P1-2015	A A A A A A A A A A A A A A A A A A A	SEDIMENT	-							
I	1325	f f	-405-FD	1		×							
	1345		-A064			×							
	1345		-404-E			×							
	1310		-A\$2	1		×	_						
	1310		- AC02-			×.						- E	
	1319		-302	5		*						A	
£	1319		- 602-	PD 1		×							
	1315		-B03			X							
	1315		- 303-	FDL		X							
	1340		-391 										
N/	1040	Total Number of		12	Purchase Order	/ Stateme	nt of Wo	ork #					
1) Released by:		, otar (amori of	T Rec'd by:	T.c.		2) Released	-				2) Re	c'd by:	
Print name: 1	ate nog	Poele	Stepho	INIL FIS	NU T	Print nam	e:						
	2-7-3-2		Company:	101		Signature:		_			Co	mpany:	1
Company: 1						Company						to/Time:	
Date/Time: 06	Date/Time: 06.14.18/1605 01410 1605					Date/Time: Date/Time:							



200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

12 3109

Project/Client Na	me: LOW	ADC3-INT	ERTIDAL	BANK SA	-MPLINE,	Ship to:	AR				
Project Num	ber: TA	SX 4				Attn:	SUE	DUPNI	HOD	9	Shipping Date: 06.14.18
Contact Na	me: ArkA		Shipper:	er: HAND DEL'D				irbill Number:			
Contact Name: AWARA VARTERIDET Shipper: Hand DEL' Sampled By: WIADWARD Form filled out by: S. Replinger							wolinge	Area	Turna	around requested: 577	
								4.9			
ř.,						35	Test(s) Requeste	ed (check test	t(s) requir	ed)	
						N S S S S S S S S S S S S S S S S S S S					
Sample				Volume of		HELD PLADUK 119201261					
Collection Date	T '	C. L.L.L.	1.C. and a s	Sample / # of Containers	A destation	NO KEE			71		Comments / Instructions
(m/d/y)	Time	Sample Ide		Containers	Matrix		_				[Jar tag number(s)]
06.14.18	1322	LOWB-1745-B		An ends	EANE						
	1322		-A例-FD			×					
	13:04		- N/4	1		×					
	130A		-406-FD	a de		×					
	1315		- AQ3	1		*					
	1315	** *	1-A\$3-FO	1		×					
	1000	LOW18-1745-1	392-401)		×					
	1014		- AØ2			X					
	1119		-A06	1		×					
	1210		-A09			×					
È.	1207	-	-AC18	l.		X					
and the second sec	1038	4 4	V -A03	1	K	the					
	2	Total Number of	Containers	12	Purchase Orde	er / Statement	of Work #				
1) Released by:			1) Rec'd by:	De T	611	2) Released by:				2) Rec'd by	/:
Print name: 🤺	ate 11	Peek	1) Rec'd by:	INAU. F	IShu	Print name:					
Signature: 🦼	22-02		Company;	1		Signature:				Compar	ıy:
Company: 601			PIT	-1		Company:					
Date/Time: つし	14.18	11005	Date/Time:	OILING	5 160S	Date/Time:				Date/Tir	ne:

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of

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

<u> </u>	_7	_	CHA	IN-OF-	CUSTOI	DY/TI	ST	REQ	UES	T FC	ORM	1	112 3110
Project/Client Na	me: <u>174</u>	ADC3-INT	ERTIPAL	SEDIHERT	& BANK SC	NL Ship	to: 🛆	Ri					
Project Num	ber: TAS	al A											
		ARA VAN		Ship	per: <u>H</u>	and	DA	10		Airbil	ping Date: <u>66.14.18</u>		
Sampled	By: Wib	MULLED			For	m filled out	by: _5	Rep	linge	~		Turnarou	Ind requested: STD
							Test(s)	Requeste	d (check	test(s) req	uired)		
Sample Collection Date (m/d/y)	Time	Sample Ident	ification	Volume of Sample / # of Containers	Matrix	4141 SOULAD	المخلومص						Comments / Instructions [Jar tag number(s)]
06.14.1B	1054	LOW 18-1745-8	2- AU4	l.	SETIMENT	X							
	1114		-A\$5	-	5 c	×							
	1151	* * *	V -AØ7	1	1.4	×							
	1310	LOW18-1745-C				×							
	1340		(-BØ1			*							
	1308		-A05			×							
	1329		- A (6)	3		×							
	1312		- AØA			×							
	1241	LDW18-1745-C	V - A02	1		×							
	1151	duvia itab-c	1 -DØ1			×							
V	IDOA		V -LO2	l	-	×							
		Total Number of		12	Purchase Orde	/ Stateme	nt of We	ork #					
1) Released by: Print name:	late MCP	la a le	() Recid by	ania E	ICho I	2) Released					2) Re	c'd by:	
Signature:	N	PER_	Company:	In a l	131021	Print nam Signature					Co	mpany:	
Company: 1671		D GAIN.		HKI		Company:							
Date/Time: 06-1			Date/Time:	110	1605	Date/Time: Date/Time:							

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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

4_ of			CHA	IN-OF-	CUSTO	DY/TI	EST	REQ	UES	ST FC	ORN	1	No. 3111	
Project/Client Na Project Num Contact Na Sampled			vttn:	Sue hand	· deli	vitoc vited		Airbil	ping Date: Il Number: Ind requested:					
Sample Collection Date (m/d/y)	Time	Sample Identifica	ation	Volume of Sample / # of Containers	Matrix	Hold (Pending)	Test(s) Requeste	ed (check	test(s) req	uired)		Comments / Instructions [Jar tag number(s)]	
6-14-2018	1035	10W18-1745-CLOT	2-MØ4	1	sediment	*								
	1118	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-601	1		×								
	1159		-JØI			×								
	1215		-3.03	1		×								
	1603		-6-03			X						_		
	1019		-MØ2	1		×		-	_					
	1036		-1105	1		×								
	1201		-EØ3	1		×								
	1000		-502 -LØ1	1		×								
	1015		-401	1		X	-							
	1025	1 4 4	- M03		810	×								
		Total Number of Con	1	12	Purchase Orde	er / Stateme	nt of W	ork #						
1) Released by: Print name: Katy NCPoetc Stephanic FISHU					inc	2) Released Print nam			_		2) Re	2) Rec'd by:		
	and in such		Company:	FRI		Signature: Company					_ Co	mpany:		
Company: Minduked Date/Time: G/14/18 1605 O14/18					Date/Time					Da	ite/Time:			



200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

5 of	1	_		CHA	IN-OF-	CUSTO	DY/TI	EST	REQ	UES	T FC	DR M	1	3112
Project/Client Na	me: LDW	Aoc3-m	erhila	el sedimer	nt + bank	samplinu	Ship	o to:	ARI					
Project Num	Project/Client Name: <u>LOW A0C3-Interfital sediment + bank sampling</u> Project Number: <u>hsk4</u> Contact Name: <u>A. Vander vint</u> Shipping Date: <u>6:14:2018</u> Shipper: hand delivered Airbill Number: —													
			A				Ship	per:	hand	i.del	worke	1	Airbil	Il Number:
Sampled	Sampled By: Windward Form filled out by: S. Repurger Turnaround requested: State Image: State Image: State Image: State Image: State Image: State													
6 C							2)	Test(s) Requeste	ed (check	test(s) req	uired)		
Sample Collection Date (m/d/y)	Time	Sample	e Identifi	cation	Volume of Sample / # of Containers	Matrix	Hold (pend Compositing	Instructions						Comments / Instructions [Jar tag number(s)]
6-14-2018	1040	LDWIS-IT	45-01	02-KO1	17 March	Seliment	×							
	1120			-(-02			×							
	1135			-EØ2	1		X							
	1212			- CON	i		X							
	1245			-A01			×		1					
	1030			-FØ1			×							
	1055	1		-F\$5	1		×	-						
8	0954			-HØ6	1		X	·	-					
	1610			- H02										
	1125			-004	-		×							
	1202			-C\$2			X							
~	1225	Total Numb	er of Co	- CØ5 ontainers	12	Purchase Orde		nt of W	/ork #					
1) Released by:				h Rec'd by		12.1	2) Released					2) Re	c'd by:	
Print name:	ate plap	look	5	JULY	anie F	Shu	Print nam	ie:						
	m	7		Company:			Signature					Co	mpany:	



200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

19 3113

Project/Client Na	me: LOW	Aocs - in	terfidal sedin	ent + bank	SOIL	Ship to:	ARI					
	ber:					- Attn:		ounninoo	Ship	ping Date: 6 · 14 · 2018		
Contact Na	me: A.	Vandervi	n			- Shipper:		. delivered	Airbil	I Number:		
		ndward			Fo	rm filled out by:		plinger	Turnarou	Turnaround requested: Sta		
(* ()				
							t(s) Requeste	d (check test(s) requ	uired)			
						HAA (Pend) Chipositinii Anthruthinis						
Sample		-		Volume of		AD OS						
Collection Date (m/d/y)	Time	Samn	e Identification	Sample / # of Containers	Matrix	H-JAA Conner				Comments / Instructions [Jar tag number(s)]		
	1238			V								
6-14-2018	1138	11-20002-11	45-0102-007	1	sediment	×						
		4.74	-0,93	1		×	-					
-	1149		- 0004	i		×						
	1047		- F04	1		X	_					
	1113		-006	1		X						
	1017		-162	a., 70		×						
-	1036		-= 62	1		×	-					
1	0948		- HØ7	<u>7</u>		X	_					
	1001		- 404	1		×						
	0451		-BØ7	1		X	_					
	IA AO		-846	1		X	_					
1	1145	X	- D03	1	1	×						
		Total Numb	er of Containers		Purchase Orde	er / Statement of	Work #					
1) Released by:			1) Rec'd by:		FICIAL	2) Released by:			2) Rec'd by:			
	ate Mil	opk_		ianu	FICKEL	Print name:						
	1232	/	Company:	Anl		Signature:		·	Company:			
Company: W			(Date/Time;	1111		Company: Date/Time:			Date/Time:			
Date/Time: 6	19/18 /	1605	OT14	16 16	05	Date, Time.			Date, mile.			

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of

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

3115

Project/Client Na	me: LDW	AUC3						Ship	to:							
Project Num	ber:							A	ttn:					Ship	ping Date:	
Contact Na	ime:														Number:	
Sampled	By:						Form	Shipper: Airbill Number: m filled out by: Turnaround requested:								
								2	Test(s)	Requeste	d (check	test(s) req	uired)	-		
								Hold pend	iristmetions.							
Sample					Volume of			d p	MON							
Collection Date	Time	Co	سام ا مامین	ifientien.	Sample / # of Containers		Antrin	PHOLA	nst						Comments / Instructions [Jar tag number(s)]	
(m/d/y)	Time		ple Ident		Containers		Aatrix									
6-14-2018	1210	LDW18-1	<u>145-C</u>	102-002		Sed	iment									
	1105	1	1	-007				X								
	1130		1	-005				×		_						
	1625			-I03	1			7								
	1040		1	- FC83	1			X								
	0955			-HØ5	and the second se			×								
	1015		-	- 403	and the second se			X								
E	1137		1	-EDI				×								
	1012		1	-305	1			X								
	1025			- 804				X								
	1037			-303		·		X								
*	1052	J.	*	+ -302	1	1	1	X								
	Total Number of Containers 12. Purchase Order								ent of W	ork #						
1) Released by:				Rec'd by:		(),	2) Released	by:				2) Re	c'd by:		
1) Released by: Print name: Kath Hillbook Print name: Kath Hillbook									ie:						(i	
Signature: / Company: Company:								Signature		_			Co	Company:		
Company: 1A					11017			Company		_			_			
Date/Time: 6/	114/18/	1605		Date/Time:	14	160	JS	Date/Tim	ie:				Da	ite/Time:		

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of

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

	STODY/TEST REQUEST F	FORM
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3125

Project/Client Na		N ADC	3-111	ternidal se	ediment		Ship to: <u>AR</u>							
	ber: tas						F	Attn:	Sve r	Mnil	Can		Ship	ping Date: G
Contact Na	ime: <u>A</u> .	Vande	Non							-	ared			Number:
	By: Mi					Fe	Form filled out by: S. Replinger Turnaround requested: Std.							nd requested: Std.
		2								<u> </u>	/	14 10		
· .								Test(s)	Requeste	d (check	test(s) requ	uired)		
2							N.	FA						
Sample					-	Tout	12-							
Collection Date (m/d/y)	Time	Sa	mple Ident	tification	Sample / # of Containers	Matrix	H-bid pendit	Instrulu		-				Comments / Instructions [Jar tag number(s)]
6.16.2018	1234	LDWI8.	1745-8	396-A09	1	sediment	- X					-		
1	1234		1	1 -A09-F	DI	l	×							
	1240			- AØ8	1		X							
	1240	_		- A \$28-1	FD I		×							
	1243		1	-A06	I		X							
	1243		1	- A016-	ED		X							
	1248			-A04			X							
	1248			-AØ4-	FD		×							
	1254			-A05			×							
	1254			- A05-	FD 1		×							
	1304		-	- AØ3-		·	X							
V	1304	ł	+ .	-A03-	FD 1	J.	X							
		Purchase Ord	er / Stateme	ent of W	ork #									
1) Released by:		1		1) Rec'd by:	1		2) Released	by:				2) Re	c'd by:	
Print name:	WONC	Print nam												
Signature:	26	Signature					- Co	Company:						
Company: UX	Lindu	ara		Date/Time:	L. T.		Company Date/Tim					Da	ite/Time:	
Date/Time:	118/18	133	3:36		с.					ac, mine.				

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To be completed by Laboratory upon sample receipt:

1

Date of receipt::	Laboratory W.O. #:						
Condition upon receipt:	Time of receipt:						
Cooler temperature:	Received by:						

of 7

12 3126

Project/Client Na	5			Ship	to:	ARI											
	iber: 125)									А	ttn:	Sue "	Dimn	ihod		Shipp	ping Date:
	ame: A.		terro	A		1		*		Ship		haind:				Airbill	Number:
	By: N								For						nd requested: Sta		
												le l	0				
30										S	Test	(s) Requeste	ed (check	test(s) rec	uired)		
										Hold Perulina Compositioned	inshuchan						
Sample						Volu	me of			SC 15	R						5
Collection Date			C 1			Sample				PU19	Ush						Comments / Instructions
(m/d/y)	Time				tification	Conta	uners		1atrix								[Jar tag number(s)]
616-2018	1310	LOW	15-17	45-	896-A07			Sedir	nent	X							
	1310	-		(1 -AUD7-	FD	1			×							
	1315				-A01		a.cu Ai			X							
	1315				- A(0)-	ED I				×			<u> </u>				
	1327				-A02					×							
	1327	V			1 - AD2	FD				×							_
		LOWY	8- 1T4	5-B	SP3-BIØ					X							
	1215	I	and the second		- 842	1				×							
	1151				- 1206	(×							
	1208	1			- 303	* and				×							
	1300				-809			1		×							
1	1230	V	V		- AQ1	, in the second s			V	X							
		Total	Numb	per of	Containers	1	2	Purcha	ase Orde	r / Stateme	ent of V	Vork #					
1) Released by:	4				1) Rec'd by:	1				2) Released	by:				2) Re	c′d by:	
Print name:	pagia V	may Vandorvoit Yard Lisanlwor								Print nam	e:						
Signature:	1. Var	hu	or		Company:	i)-	20	-		Signature:		_	_	_	Co	mpany:	
Company:	N. no	120	er et	_	76	Ŧ	15	26		Company					-	_	
Date/Time: (2118/18 1330 6/18/18 13-36									Date/Time	e:				Da	Date/Time:		

1

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of

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To be completed by Laboratory upon sample receipt:

- 120

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

<u> </u>	_7	. *	CHA	IN-OF-	CUSTO	DY/TEST	REQ	UES	T FC	DRM	1	3127	
Project/Client Na	me: LOW	J AOC3-Int	erhidal Se	diment		Ship to:	ARI					Fa	
Project Num	ber: tosk	-4				Attn:	Sue I	ami		Shipping Date:			
Contact Na	me: A.	Vandemor	F			Shipper: hand delivered Airbill Number:							
Sampled	By:	hindward			Fo	rm filled out by:	S. Rey	olinge	er		Turnarou	nd requested: <u>SFJ</u>	
						5 Pro Te	st(s) Request	ed (check	test(s) req	uired)			
Sample Collection Date (m/d/y)	Time	Sample Iden	tification	Volume of Sample / # of Containers	Matrix	Hold permisery						Comments / Instructions [Jar tag number(s)]	
6-16-2018	1048	LDW18-1745-6	283-D#2		Sediment	- ×							
	1102	- any mile	-D01			×							
	1104		-003	Property of the second s		×							
	-1131		-B08			×	_						
	1232		-BOI			X	_						
	1254		-B017	uprice .		×							
	1312		- 305			×							
	1142		-cøl			X	_						
	1158	* *	V - BØ4			×	_						
		LOW18-1745-0			-	X							
	1207	LOW18-1745-											
×	1201	Total Number of		12	Purchase Orde	er / Statement of	Work #						
1) Released by:	17		1) Rec'd by:	1.	30.10	2) Released by:		_		2) Re	c'd by:		
	11 1	andervolt	yard	hSeine	WMC	Print name:				-			
Signature: Company:	Allra	wort	Company:	736		Signature: Company:					трапу:		
Date/Time:/	18/18	1336	Date/Time:	13	:36	Date/Time:				Da	ate/Time:		



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To be completed by Laboratory upon sample receip)t:
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.....

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

3128

Project/Client Na		Ship t	o: 🕯	4121										
Project Num						Att	n: 🤇	ive C	Inni	hoo		Ship	ping Date:	
		Vandenert				Shipper: hand delivered					4	Airbill Number:		
Sampled By: Windward						rm filled out b	y:	5 Rey	olina	or			nd requested: sta	
	~			-			1 (V)		(3				
							Test(s) Requested (check test(s) requ							
4														
Sample				Volume of										
Collection Date	T '	с. I.I.		Sample / # of									Comments / Instructions	
(m/d/y)	Time	Sample Ide		Containers	Matrix								[Jar tag number(s)]	
6.16.2018	1207	LAM8-1745-			sediment	~								
	1213		- AØ3	1										
	1216		-A04				_							
	1224		-BØ1											
	1227		V -BØ2											
	1059	LOW18-1745-0	LIA-BØ7											
	1103		-B\$8	1										
	1115		-805											
	1120		-3:04											
	1125		-BØ3	-										
	1128		-302	1										
1	1134	4 4	J -B01	1	イ									
		Total Number o	f Containers	12	Purchase Orde	er / Statemen	t of Wo	ork #						
1) Released by: / /						2) Released by	r:				2) Re	c'd by:		
Print name:	Ward Vo	adomost	Yare	L WSOM	EDENE	Print name:								
Signature: 🕞	V. Vac	dugt	Company:	#221		Signature:					Co	Company:		
Company:	wind	word	16-1	1 126		Company:					-			
Date/Time:	helie	1330	Date/Time:	2 13	36	Date/Time:					Da	ate/Time:		
	110110	Y DUT	161111	3			_				_			

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To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

4 of 7

119 3129

Project/Client Name: LOWIS A0C3 - Interficial sediment								Ship to	»:	AR						
Project Num		hf						Attn	1:	Sire !	Dunr	whoe)	Shipp	ping Date:	
Contact Na	me: A.	Vande	wort-	-				Shipper: hand delivered						Airbill Number:		
Sampled By: Mindward							Form	filled out by	/: ¥	Atra	B S.	Replir	ser	Turnarou	nd requested: Std.	
									-			. (0			
k								20	Test(s)	Requeste	d (check	test(s) rec	uired)	_		
								Had pendim Cumpositing								
Sample					Volume of			vol per								
Collection Date					Sample / # of			Production							Comments / Instructions	
(m/d/y)	Time	Sa	mple Iden	tification	Containers	Matrix		TOF							[Jar tag number(s)]	
6.16.2018	1138	LOWIS-	1745-(CLIA-ADI	3	sedimen	140	×								
	1110	1		J -B06	1		- ¹	×		+						
	1130	LDW18-	F45-C	103-A05	1			×								
	1140		and the second second	1 -BØ1	1			×								
	1217			-A462	1			×								
	1200			-AØ3				×								
	1142			- AØ4	1			×								
	1222	-		- AØ1	4			×								
	1343	Y	N.	AOG				×								
	1350	1.0N18-	1745-C		1			×								
	1340	1		1 -GØ1				×								
+	1235	4	1	V -CIO-	-	1		X								
		Total Nu	mber of	Containers	12	Purchase O	rder /	Statement	t of Wo	ork #						
1) Rec'd by: /,								Released by	:				2) Re	ec'd by:		
Print name: Amplen Vande volt Vared Usaneur						CUNT	-	Print name:					-			
Signature: A ladrack Company: 11 11 221						21	-	Signature:		_			Co	Company:		
Company:	Und	no.10	L	Y	L++7_)6	Company:						_			
Date/Time:	101.02	12100	10	Date/Time:	10 12:	21	Date/Time:					Di	ate/Time:			
6/18/18/13/36 6/18/18 13:36														_		

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of 7

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CULAINLOF	CUSTOD	TECT DEOL	IFCT FORM
CHAIN-UP	-COSIODI	IESI KEUU	JEST FORM

6 01		-		CI I/		CUSIC		.51	NLQ	ULS			1	3130	
Project/Client Na	ame: LOV	AUC3	-inter	tital sed	ment		Ship	to:	AR						
	ber: tas						Attn: Sue Dunnihoo						Ship	ping Date:	
	ame: A.		wart	1			Ship		land.				Airbill Number:		
	1 By:					Fo	orm filled out			-				ind requested:	
	·								, 0	0					
							06	Test(s)	Requeste	ed (check	test(s) rec	uired)	_		
							P.S.	An ()							
Sample					Volume of		88	3						×	
Collection Date (m/d/y)	Time	San	nple Ident	ification	Sample / # of Containers	Matrix	Hold perd							Comments / Instructions [Jar tag number(s)]	
					Containers										
6.16.2018		LOWIR-1	<u>145-CI</u>	12-001		Sediment									
	1315			-EØ!-			×								
-	1254			- DØ3			×								
	1329			- EØ2	1		X								
	1301			- 204	1		X								
	1214		-	-006	-		×								
	1226		1	-009-	-		×								
	1107	1.		-GØ2			×								
	1159			-004			×								
	1210			-065	-		X							* 後方	
	1225			-C48	-		×								
V	1255	×	1.	-DØ2		V	×								
	×	Total Nur	nber of	Containers	12	Purchase Orde	er / Stateme	nt of W	ork #						
1) Released by: 1) Rec'd by:							2) Released					2) Re	c'd by:		
Print name: Angio Vandervatt Yavel Usanework							Print nam								
Signature: Company:	1 Va	ano	2	- Company:	4736	2	Signature: Company:						ompany:		
Date/Timer		Land	-	Date/Time:	71 100	2.21	Date/Time:						Date/Time:		
Date/Time: 01818 336 6/18/18 13:36															



6 of 7

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be	comp	leted b	y La	borator	y u	pon	samp	ole	recei	ot:

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William State and and the

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

of	7 of 7 CHAIN-OF-CUSTODY/TEST REQUEST FORM													
Project/Client Na	me: LO	W ADC3-IN	tertial a	sediment		Shir	to:	AR		5 S				
Project Num						Sur D		hoo		Shipp	ping Date:			
		Vandervor	Ł					land					Number:	
		Mndvard			For	rm filled out							nd requested: 51-4	
									. (
1.0						AIN		Requeste	d (check	test(s) red	uired)			
and the second second						Hold Per	ins the how S							
Sample				Volume of Sample / # of		Hold	Juc 1						Comments / Instructions	
Collection Date (m/d/y)	Time	Sample Ident	ification	Containers	Matrix	Ťð	SUI						[Jar tag number(s)]	
616-2018	1308	LOW18-1745-1	CL12 - DOG	- 1	sedimont	. X								
1	1205		1 - CØ3	1		×								
	1218		-CØ7	- 1		X								
	1237		-Cil-			×								
	1250		-012			×								
	1309		-205	1		×								
	1338	- V	+ - FOI	- 1	×	×								
	/		/						<u>.</u>	-				
			/											
			/			-	/							
	-/	Total Number of	Containers	7	Purchase Orde	er / Statem	ent of W	ork #		L				
1) Palassad bur	/	Total Number of	1) Rec'd by:		i dichase Olde	2) Released					2) Re	ec'd by:		
1) Released by: Print name: A	maga Vo	indervor, t	Vare	d lisane	ENJOYLE	Print nar								
Signature:	A. Vu	1 11	Company:	4.22	1	Signature	2:				C	ompany:		
Company: (Mind	mard	40	- 4-97	0	Company:								
Date/Time;	115118	1336	Date/Time:	18_13	:36	Date/Tin	ne:				D	ate/Time:		



Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

3114

Project/Client Na	ime: <u>(</u> Du	1 ADC3 - Intertidal 1 bar	nk sampling	1	Ship	to: A	RI						
Project Num		Attn: Sue Dunnihoo Shipping Date: 6/15/1						Ding Date: 6/15/18					
Contact Name: A. Vanderwart					Shipper: hand delivered						Airbill Number: ///		
Sampleo	By: Indino	word		For	m filled out							nd requested: Std.	
42													
1 - E					Test(s) Requested (check test(s) required)								
					0		4145		51	1		÷	
Sample			Volume of		1700	a. 15	lers 5, 0,	20	WW	a XIIX UTA IS			
Collection Date (m/d/y)	Time	Sample Identification	Sample / # of Containers	Matrix	15/	Aleta 15	Arx lois, SVIXS, PAHS	Errain Size	ALEANC	1.00		Comments / Instructions	
					-					N		[Jar tag number(s)]	
6/15/18	14145	LDW18-BNKG-1	6	Still Sedice		×		X	X	X			
L	1130	LOWIS- BRIK6-2		1	×	X	×	X	×	X			
								_					
								_					
					-								
					_								
		Total Number of Containers		Purchase Order	/ Stateme	nt of Wo	ork #						
1) Released by:		1) Rec'd by:	Sinin TIG	inel t	2) Released		_			2) Ree	c'd by:		
Print name:	Sulanne	- Repirger STEPPI	MILLETI	SIRA	Print nam		_			_			
Signature: Signature: Company: 6.1	8 1-	Company:	ARI		Signature:					- Co	mpany:		
Date/Time: 6/			1 1 1	-	Company Date/Time					Da	te/Time:		
5 dec/ mile: 6/1	15/18	1750 Date/Time:	(18)	750									

* Distribution: White copies accompany shipment; yellow retained by consignor.



of

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:	1.5
Condition upon receipt:	Time of receipt:	
Cooler temperature:	Received by:	

CHAIN-OF-CL	JSTODY/TEST	REQUEST FORM

3116

Project/Client Na	ime: LDV	V AC	003- Ir	Hertidal S	ediment		Shi	o to:	ARI					
Project Number: TRSIC 4							,	Attn:	nand-	deliv	eredr	-	Shipping Date: 6-15-2018	
Contact Name: A. Vandur VOR							Shipper: Se Dunnhad 2 Airbill Number: -							
Sampled	Ву:	ndh	6 vs			For	Form filled out by: S. Penlinger Turnaround requested: Std.							
		-					1.75		_	1 (J			
10							215) Test(s	Requeste	ed (check	test(s) rec	uired)		
a							1SC	S						
Sample					Volume of		1 Pode	WS HAC HO						a .
Collection Date (m/d/y)	Time		Sample Ide	ntification	Sample / # of Containers	Matrix	Had perm	SUN						Comments / Instructions [Jar tag number(s)]
6-15-2018	1400		8-1745-E		1	sedument								
	1430		1	-BOI	1	Jewireall	X							
	1200			-A14	1		×							
	1230	1	-	-419	1		X							
	1040			-A13	(×						- 1	
	1345			- A12	1		X			1			_	
	1405			-AIL	1		K			-				
	1305			-A17]		×							
	1220			-A21	1		×							
	1250			-A18			X							
	1:20			-CØ1			X							
V	1150	X	¥ 4	1 -AIS		Y	K							
		Total	Number of		12	Purchase Orde	/ Stateme	e <mark>nt</mark> of W	ork #					
1) Released by: 1) Released by: 1) Rec'd by: 10 000 F-1000			5.01	2) Released					2) Re	2) Rec'd by:				
Print name: Dreame hearing of styr with I is ne			ishel	Print nam										
Signature: S Company: W	indan		0	Company:	AD 1		Signature:					- Co	Company:	
Date/Time: /	C C C		2	Date/Time:	1 They I		Company: Date/Time:					Da	Date/Time:	
Date/Time: 6.15.2018/1750 Date/Time: 0.15.2018/1750					150							,		

* Distribution: White copies accompany shipment; yellow retained by consignor.



of 9-

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

19 3117

Project/Client Na	me: LOW	180E3-111		Ship to:	ARI								
Project Num	ber: tosk	4		- Attn:	Sre [Dunnih	00	Shipping Date: 6-15-2018					
Contact Na	me: A. `	Vandurva		- Shipper:		·delive			Airbill Number:				
	By: Wi				Fo	rm filled out by:				Т		nd requested: 5 feb	
							-	0					
2							st(s) Request	ed (check tes	st(s) requi	red)			
						per per							
Sample				Volume of		P and						· · · · · · · · · · · · · · · · · · ·	
Collection Date (m/d/y)	Time	Sample	e Identification	Sample / # of Containers	Matrix	Hold pen composition						Comments / Instructions [Jar tag number(s)]	
6.15.201B	1430	LOWIS-170	15-3P8-ACA	2	Sediment	*						2 4-02 jors railected	
	1102	()	1 -004		1	×				_			
	1402		-ADL	- 1		×							
	1425		- APB CONS	5 (×							
	1435		-A(34	(K							
	1441		- A Ø5	1		X							
	1446		-A07	Ĩ		×							
	1045		-002	Ę		×							
	1125		-C\$3	Ĩ.		×							
	1300		- A10	ja L		×							
	1320		- AØ6		1	×							
	1400	イイ	1 .V - AU2	l,	V	X							
		Total Numb	er of Containers	12	Purchase Orde	r / Statement of	Work #						
1) Released by:			1) Rec'd by:	in ou a is	Licz 1	2) Released by:				2) Rec'	d by:		
Print name:	Vienne	Raphin		nance	HShel	Print name:							
Signature:	-11-		Company: ¹	An		Signature:					Company:		
Company: Windbard Mill Date/Time: 6.15.2018/1730 Oate/Time: 1730				130	Company: Date/Time:				Date/Time:				

* Distribution: White copies accompany shipment; yellow retained by consignor.

Wind Ward

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:
100	

<u> </u>	9	_	CHA	IN-OF-	CUSTO	DY/TE	ST REG	QUES	ST FC	ORN	1	3118	
Project/Client Na	me: LDW	AOC3 - Inte	Aidal Se	diment		Ship to	o: Ak	1				8	
Project Num	ber: test	r4				Att		Omni	hoo		Shipp	ping Date: 6.15.2018	
Contact Na	me: <u>A</u> .	Vandervart				Shippe	r: hand	· delim	ered		Airbill	I Number:	
Sampled By: Windward Form filled out by: S. Perpinger Turnaround requested: 5+d									nd requested: <u>Std</u>				
1						200	Test(s) Reque	sted (check	test(s) requ	uired)			
Sample Collection Date (m/d/y)	Time	Sample Iden	tification	Volume of Sample / # of Containers	Matrix	Hord pendi composition						Comments / Instructions [Jar tag number(s)]	
6.15.2018	1220	LOW18-1745-P	18-AZD		Sediment	×		-					
6	1230		-A16	1	5	X							
	1200		1 - A22			X							
	1206	LON18-1745-E	P7- A11			×				_			
	1259	graver-te	-B02	1		×							
	1255		-BØI			×							
	1305		-Bø5			×							
	1115		-A02			X		_					
	1142		- AØ5	1		×							
	1155		-A10	1	-	×		-					
	1210		- A13		-	× 							
N	1230	Total Number of	Containers	12	Purchase Order	/ Statement	t of Work #		1				
1) Released by:					Shel	2) Released by:					2) Rec'd by:		
Signature: 🧲	Vindua	0	Company:	ARI		Signature: Company:							
the second s	and the second second second second	11150	Date/Time:	LIE IT	750	Date/Time:				Da	tte/Time:		



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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

Date of receipt::	Laboratory W.O. #:						
Condition upon receipt:	Time of receipt:						
Cooler temperature:	Received by:						

CHAIN-OF-CU	JSTODY/TEST	REQUEST FORM
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3119

Project/Client N	lame: LDV	ACC3-	-Interfidels	ediment		Ship to:	ARI					
Project Nu						Attn:	Ser O	unnihao	Ship	oping Date: 6.15.2018		
Contact N	Contact Name: A. Varider VINT							delivered		Il Number:		
	ed By: W				Fo	rm filled out by:		inger	Turnarou	und requested: Std.		
							1	0				
						5 Te	st(s) Requested	l (check test(s) req	uired)	-		
- Simon						Con all						
Sample				Volume of		Hold pend Compasiting				40 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -		
Collection Date (m/d/y)	Time *	Fame	e Identification	Sample / # of Containers	A Antoire	Tors				Comments / Instructions [Jar tag number(s)]		
				Containers	Matrix		++					
6.15.2018	1115	LON18-17.	45-BPT-A01		sediment	×						
	127		-A05			×	_		-			
	1138		- F.Ø			×	_					
	1148		-AØ			×						
	1200		- A00	l l		×						
	130		- A(X	>		×						
	1055		- A0:	3 1		×						
	1257		-80	5 1		×						
	1310	¥ .	V V -BØA		1	×						
	1405	LDW18-1T.	45-BP5-F16	rhrme		X						
	1040	LDW18-1T	45-CLIG-A !!	1		X						
1 V	1231	4	1 1 - 204			X						
		Total Num	ber of Containers	12	Purchase Orde	r / Statement of	Work #					
1) Released by:			1) Rec'd by:	5		2) Released by:			2) Rec'd by:			
Print name:	Surannu	2 Repin	ment Step	hanie t	-isnel	Print name:						
Signature:	2-M	ni	Company:	An 1		Signature:			Company:			
	Nindurch					Company:			Dut T			
Date/Time: 6.15.2018 / 1750 Date/Time: 116 1750					1756	Date/Time:			Date/Time:			

* Distribution: White copies accompany shipment; yellow retained by consignor.



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of 9

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

<u> </u>	9		CH/	NIN-OF-	CUSTO	DY/TI	EST R	REQUI	ST FC	ORN	۱	10	3120
Project/Client Na	ime: LDV	1 A003-inter	Aidal sed	iment		Ship	o to: 🛛 🕴	421					
Project Num						A	ittn: 5	he Dr	mihoo		Shipp	oing Date:	6-15-2018
Contact Na	ime: A. 1	Vandervort				Ship	per: h	and de			Airbill	Number:	
Sampled	By: W	linducia			Fo	orm filled out	by:	Replin	ger	1	Furnarou	nd requested:	Std.
							T () F		0			r	
						5	12	Requested (cho	eck test(s) req	uired)			
						Hold pendir compasiting	Instructor						
Sample Collection Date				Volume of Sample / # of		thory i	str					Com	ments / Instructions
(m/d/y)	Time	Sample Iden	tification	Containers	Matrix	7.2	2					[Ja	r tag number(s)]
615-2018	1250	LDN18-1745-	CL16-A03		Sedimens	r X							
	1310		1 -A02	(X			_	_			
	1052		-A10			×				_			
	1106		- A()9	1		X							
	1120		- A08	1		×							
	1136		- A057	1	i mai kana	×							
	1145		- A\$6	1		X							
	1208		- A05	1		×							
	1326		- A(6)			×							
	1351		V -A12			×							
	1402	LOWIS-1745-C	13-801	1	-	X	1						
V	1432	LOW 18-1745-0	:L12-HØ1	and the second se	1	×							
		Total Number of	Containers	12	Purchase Ord	er / Stateme	nt of Wo	rk #					
1) Released by:			TO Rec'd by:	DOG T	Le cali	2) Released				2) Rec	c'd by:		
	vizanne	Replinger	NITIC	JUNNUL F	-Isnel	Print nam				-		_	
Signature: Company:	Jun and		Company:	HUL		Signature					mpany:		
Company: Montrad Date/Time: 6.15.2018 1750 Date/Time: 0115116 П						Company: Date/Time:					Date/Time:		

* Distribution: White copies accompany shipment; yellow retained by consignor.



200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3121

Project/Client Na	me: LOW) A003-111	enidal se	idiment		Ship to:	AP21						
Project Num						Attn:	Ste D	unnihou	0	Ship	ping Date: 6.15-2018		
		Vandurvar	+			shipper: hand delivered					Il Number:		
Sampled By: Windward						m filled out by:	A Direct war	and the second s			ind requested: 5td.		
(i						1.0		0					
						the second day of the	est(s) Request	ed (check tes	t(s) require	ed)	-		
	1					in poor							
Sample				Volume of		Hold per Composition							
Collection Date (m/d/y)	Time	Sample Ide	atification	Sample / # of Containers	Matrix	Hord					Comments / Instructions [Jar tag number(s)]		
				L					_				
6-15-2018		LOW18-1745-	and the second s		Seliment								
	1450		- 4/5	1		×	-						
	424		-604	1		X							
	1436		-H.\$2			× _	_						
	1449		- 404	1		X							
	1505		-408	de se		X							
	1430		-GØ6	1		×							
	1455		-407	1		×							
	1455		- 406	41Jan		X							
	1420	V V	V -605			X							
	1345	LOW18-1745-		1		×							
V	1420	T T	1 -COI	1	Y	X							
		Total Number o	f Containers	12	Purchase Orde	r / Statement	of Work #						
1) Released by:	h	h	Rec'd by:	-		2) Released by:				2) Rec'd by:			
Print name:	Suzznne	2 Ripingen	STRACK	DANEt	-Isnel	Print name:							
Signature: 9	M		Company:	An.		Signature:				Company:	Company:		
A COMPANY AND A COMPANY AND A COMPANY	winder	212		IIIC		Company:							
Date/Time: 6.15.2018) 1750 (Date/Time: 6.15.2018) 1750				1750	Date/Time: Date/T								

* Distribution: White copies accompany shipment; yellow retained by consignor.



<u>6</u> of <u>9</u>

200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To	be comp	leted t	by L	aborat	ory	upon	samp	ole rece	eipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

7 of 9

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3122

Project/Client Na	me: LDW	ADC3 -IV	nterhidal SI	ediment		Ship to:	AP-1					
Project Num				•		Attn:	Sve "	Durnihoc	>	Ship	Ding Date: 6.15.2018	
Contact Na	me: A. V	andword				Shipper:	A				Number:	
Sampled By: Windward					For	m filled out by:	S.R.	plinger		Turnarou	nd requested: Std.	
						57		1 ()				
						2 MAI	est(s) Requeste	ed (check test(s) re	equired)	_		
						and st						
Sample				Volume of		Held por						
Collection Date (m/d/y)	Time	Sample to	dentification	Sample / # of Containers	Matrix	Hot -					Comments / Instructions [Jar tag number(s)]	
6.15.2018	1100	·		}			_				0	
6.12.010	1)40	LUNK-1140-	-CLIS-B13	1	sediment	×						
	1411		-215	1		X			-			
	1420		- 305				-					
			-306			X	-					
	1147		-D01	1		×	-					
	1246		-B12			X	-					
	1226		-BI7			X	-					
	1238		-816	1		X	-					
	1307		-BIO			X	-					
	1335		-308		-	X				1		
	(34)		1 -269	r.		X						
		Total Number		12	Purchase Order	·/ Statement o	f Work #					
1) Released by:			Rec'd by:			2) Released by:			2) Re	c'd by:		
Print name: Suzanne Ryphyneer TRAMAINIE FISHEL					ishel	Print name:						
Signature:	2p2		Company:	i M	_	Signature:			Co	Company:		
Company: \//			1	TICI		Company:						
Date/Time: 615-2018/1750 Date/Time: 1750				1750	Date/Time:			Da	Date/Time:			

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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

14

Date of receipt::	Laboratory W.O. #:						
Condition upon receipt:	Time of receipt:						
Cooler temperature:	Received by:						

8 of	9		CHA	IN-OF-	CUSTO	DY/TE	ST	REQ	UES	T FC	DRN	1	3123	
Project/Client Na	me: LDY	V ACC3-	Intertidals	sediment		Ship	to:	AR					් ද වි	
Project Num		A	ttn:	Sue :	Dunn	inhoc	>	Shipping Date: 6.15.208						
Contact Na	me: A.	Vandervo	A			Shipp	per:			wred		Airbil	Il Number:	
Sampled	By: 🔨	Indusra			For	m filled out	by:	S. Re	plin	ger		Turnarou	ind requested:	
[2		0	0.0		1	
						201	Test(s)	Requeste	d (check	test(s) req	uired)		-	
14 - C				1.0		Held pend	Sing							
Sample Collection Date				Volume of Sample / # of		PRH	instruction						Comments / Instructions	
(m/d/y)	Time	Sample Id	entification	Containers	Matrix	CONT	SUL	_					[Jar tag number(s)]	
6.15.2018	1429	LOW18-1745-	-CL15-BØ7	1	sediment	×								
	1036		-BI4	(×								
	1648		- 002	S		×					-			
	1200		-Big			×						/		
	1223		- AØ6			×								
	1300		-301			×								
	1220		-A08	1		X				i				
	1305		-3062			×								
	1055		-A62			×								
	1140		- AØ4			X								
	1217		1			×								
	1150	V Y	V-A05		V	X							I	
		Total Number	of Containers	12	Purchase Orde			ork #			-			
1) Released by: Print name: Sunapper Regiment Stephanie FISh					sher	2) Released Print nam					2) Re	2) Rec'd by:		
Print name: Signature:	- N	- The second	Company:		31.001	Signature					Ca	Company:		
	Indiana		F	HU		Company	:							
Date/Time: 6.	6.15.2018/ 1750 10 Date/Time:					Date/Time: Date/Time:								

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200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343 To be completed by Laboratory upon sample receipt:

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

<u>9</u> of	9	C	HAIN-OF-	CUSTO	DY/TES	T REQ	UEST F	ORN	٨	3124
Project/Client Na	ime: LDI	NAOC3 - Intertida	1 sediment	99 	Ship to:	ARI				
Project Num	ber: tris	h4					Dunnihoc		Ship	ping Date: 6.15.2018
		Vandervor-					delivered			l Number:
Sampled	Ву:W	indward		For	m filled out by:	S. Per	olinger		Turnarou	nd requested: <u>Stat</u> .
(*)					SAM.	Test(s) Requeste	d (check test(s) r	equired)		
					SEF					
Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Itold perd compasition					Comments / Instructions [Jar tag number(s)]
6.15.2018	1110	LOW18-1745-CLIS-A	23 1	sediment	- ×					
	1320	/ -B			X					
	1320		03 1		X			-		
V.	100	V V V -A	111	V	×					
		· · · · · · · · · · · · · · · · · · ·								
								-		
								-		
		Total Number of Containe	s 4	Purchase Order	/ Statement	of Work #				
1) Released by:		D Rec'd b	/:	-	2) Released by:			2) Re	ec'd by:	
	Juzane,	periorer Still	nnnie F	-isnel	Print name:					
Signature:	V Im	Compa	ARI		Signature:			C	ompany:	
Company: M					Company:					
Date/Time: 61	15/2018	1750 (Date/Ti	ne: 5 (10)	1750	Date/Time:			D	ate/Time:	

* Distribution: White copies accompany shipment; yellow retained by consignor.



200 West Mercer Street Suite 401 Seattle, WA 98119 Tel: (206) 378-1364 Fax: (206) 217-9343 To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Porewater Forms

DAILY CONDITIONS BENCHSHEET

	Date	Room Temperature	Orbital Shaker Performance Acceptable (Y/N)	Jars and Lids Intact (Y/N)	Comments	Analyst	
	03/16/18	21.4	Yes	Yes	-	JG	
	3/17/18	20.9	yes	yes		pere	
	3/19/18	20.1	yes	yes	NA	clor	÷
	3/20/18	20.3	yes	yes	NA	CAS	
	3/21/18	20.5	yes	yes	NA	alla	1
	3/22/18	21.6	yes	yes	NA	cph	h.
	3/23/18	21.4	Jes	Yes	Opened and checked all. No leaks or wear.	war	Abtued
	3/24/18	21.5	y.es	yes	NA	WS-	O Noticed Packing of Sod. Flipped Boxes
	3/26/18	21.1	yes	yes	NA	ave	Flipped boxes
	3/27/18	21.9	yes	yes	NA,	an	for wext cycle. 3-23-18 UDS
	3/28/18	21.3	Jes	yes	NX	ali	
	3/29/18	21.6	Jes	yes	NA checked a	an	Could
	3/30/18	22.1	Jes	yes	opened and checked of all. Doleaks or wear		Offipped
	33118	21.3	yes	yes	NA	the	Boxes again for Vext cycle. 18 33216
	4/2/18	20.4	yes	yes	NA	an	cycle, 18
	4/3/18	2.1	yes	yes yes	NA	an	3-5-01-
d a		21.6	yes yes	yes	NA	an	
Weller	4/5/18	22.1	V A	V	NA	W	(3) PAWPY
+ 7/6/18 ->	4/7/18	21.1	yes (3) yes	yes	3 math	COR	3 power out from approx.
	4/0/0	21.1	yes	yes		an	8:30 4/0/18
	4/11/18	12.3	Yes	yes	114	Con CNS	8 30 4/0/18 - 5 30 4/7/18
	4/12/18	21.9	Lie s	wes.	NA	SG	We 417/18
		21.3	678 S	un s	Nr	36	Dopened and checked Days.
	4/13/18		No leaks or brea	upyes at 1	ale down.	24	No Leaks or
	Thermometer	THEPAA-C)ZC 1002565)	0		di la constante da la constante	Boxes again
	Orbital Shaker ID:						Boxes again for packed sediment.
	Cibital Ollandi ID.	<u> </u>	ö.				49-19
							Children



Surface Sediment QAPP Appendix B B-5

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ARI Client Company:	VALP	Phone:			Date:	Pre	lce Present?		Tukwila, WA 98168 206-695-6200 206-	Tukwila, WA 98168 206-695-6200 206-695-6201 (fax)
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said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for signed agreement between ARI and the Client. Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

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EXPOSURES SETUP BENCHSHEET

	Sample ID	Sediment Mass (g ww)	Passive Sampler Mass (g)	Biocide Solution Volume (mL)
	LDW18-55-169	352.2	0.1184	650
	LOW18-55-170	282.2	0.1109	737
* Duplicite -7	LDW18-55-174	344-4	0.1084 (x2)	675
	LDW18-55-178	447.0	0.1154	562
	LOW18-55-199	452.3	0.1099	556
	4DW18-55-183	428.8	0.0929	604
	LDW16-55-184	334.6	0.0987	666
	20W18-55-186	328-4	0.1131	690
	LDW18-55-187	314.2	0.1046	694
	LOW18-25-188	285.4	0.0923	775
	LOW18-55-171	311.2	0.0995	696
	20W18-55-172	498.6	0.1052	512
	LOW18-55-173	382.3	0.0941	614
	4DW18-55-175	351.2	0.1064	657
	LOW18-55-176	336.Z	0.0989	668
	LOW 18 - 55 - 177	450 -9	0.1010	553
	LOW18-55-180	438.4	0.0927	575
	LOWIK-52-18.1	484.3	0.1063	519
	40W18-55-182	408.6	0.1081	596
	LAW18-55-185	319.0	0.1119	699
	Control Black	_	0.0936	870

Start Date: 3/16/2018 413/2018 Stop Date: 54 Analyst:

Lower Duwamish Waterway Group

DRAFT FINAL Surface Sediment QAPP Appendix B B-4