

Location Coordinates

Table A-1. Phase 1 Surface Sediment Grab Coordinates

Location ID ^a	Collection Date	Mudline Elevation (ft MLLW)	Elevation Type	Target Coordinates (per QAPP)		Revised Target Coordinates (To Reflect Actual Subsurface Core Coordinates)		Actual Coordinates		Distance From Target (ft)
				X	Y	X	Y	X_coord	Y_coord	
Segment 1										
100	6/30/2020	-16.72	bathymetric (2020)	1273310	197775	1273308	197777	1273309	197774	2.86
101	6/5/2020	-11.91	bathymetric (2020)	1273249	197679	1273253	197672	1273254	197675	3.13
102	6/5/2020	-16.87	bathymetric (2020)	1273379	197719	na	na	1273378	197715	3.82
103	6/30/2020	-16.77	bathymetric (2020)	1273334	197665	1273333	197665	1273334	197667	2.70
104	6/30/2020	-16.53	bathymetric (2020)	1273450	197657	1273451	197657	1273452	197659	2.58
106	6/10/2020	-0.55	bathymetric (2020)	1273379	197419	na	na	1273381	197425	6.58
107	6/30/2020	-2.91	bathymetric (2020)	1273412	197453	1273413	197449	1273413	197450	1.31
108	6/30/2020	-16.46	bathymetric (2020)	1273548	197559	1273552	197557	1273555	197558	3.27
109	6/5/2020	-17.09	bathymetric (2020)	1273586	197487	na	na	1273584	197485	2.92
110	6/30/2020	-1.02	bathymetric (2020)	1273472	197364	1273472	197368	1273472	197368	0.51
111	6/30/2020	-13.10	bathymetric (2020)	1273585	197394	1273582	197394	1273582	197393	0.80
112	6/30/2020	0.13	bathymetric (2020)	1273526	197276	1273532	197281	1273535	197285	5.13
113	6/11/2020	-5.37	bathymetric (2020)	1273587	197311	na	na	1273590	197313	3.06
114	6/30/2020	-16.02	bathymetric (2020)	1273695	197426	1273696	197426	1273700	197427	4.65
115	6/30/2020	-17.38	bathymetric (2020)	1273705	197341	1273704	197342	1273706	197341	1.72
116	6/30/2020	-1.92	bathymetric (2020)	1273624	197239	1273629	197244	1273630	197246	2.07
117	6/5/2020	-15.71	bathymetric (2020)	1273793	197347	na	na	1273795	197347	2.09
118	6/30/2020	-16.8	bathymetric (2020)	1273791	197243	1273790	197245	1273790	197245	0.21
119	6/30/2020	-15.27	bathymetric (2020)	1273870	197277	1273871	197280	1273870	197282	2.31
120	6/30/2020	-1.19	bathymetric (2020)	1273735	197120	1273740	197121	1273740	197122	1.20
121	6/10/2020	-7.16	bathymetric (2020)	1273805	197128	1273801	197126	1273802	197128	2.06
123	6/10/2020	-16.55	bathymetric (2020)	1273927	197209	1273922	197206	1273926	197205	3.77
124	6/30/2020	0.27	bathymetric (2020)	1273840	197017	1273837	197014	1273835	197014	1.56
125	6/10/2020	-15.87	bathymetric (2020)	1273945	197086	na	na	1273945	197085	1.10
126	6/30/2020	-16.53	bathymetric (2020)	1273999	197146	1273997	197149	1273996	197147	1.97
127	6/11/2020	-0.50	bathymetric (2020)	1273911	196942	na	na	1273913	196940	2.84
128	6/25/2020	-7.16	bathymetric (2020)	1273964	196988	1273968	196984	1273970	196983	2.24
129	6/30/2020	-17.23	bathymetric (2020)	1274069	196989	1274068	196992	1274068	196993	0.84
130	6/10/2020	-16.57	bathymetric (2020)	1274133	197026	1274139	197017	1274139	197020	2.89
131	6/25/2020	-9.71	bathymetric (2020)	1274111	196888	1274108	196882	1274108	196883	0.87
132	6/25/2020	-16.94	bathymetric (2020)	1274211	196936	1274213	196933	1274213	196936	3.28
133	6/11/2020	-3.51	bathymetric (2020)	1274128	196821	na	na	1274128	196822	0.97
134	6/30/2020	-4.75	bathymetric (2020)	1274198	196753	1274195	196747	1274197	196748	1.83
135	6/10/2020	-18.00	bathymetric (2020)	1274299	196841	na	na	1274305	196841	5.75
137	6/30/2020	0.36	bathymetric (2020)	1274225	196679	1274233	196683	1274231	196681	3.21
138	6/30/2020	-18.7	bathymetric (2020)	1274371	196778	1274367	196781	1274367	196781	0.74
139	6/11/2020	2.45	bathymetric (2020)	1274280	196614	na	na	1274281	196618	3.90
140	6/11/2020	-5.52	bathymetric (2020)	1274332	196649	1274335	196648	1274334	196647	1.58
141	6/30/2020	-14.54	bathymetric (2020)	1274380	196679	na	na	1274375	196682	6.20
142	6/11/2020	-19.17	bathymetric (2020)	1274451	196708	1274449	196710	1274450	196707	2.26
143	6/30/2020	3.20	bathymetric (2020)	1274343	196540	1274345	196540	1274351	196544	6.55
144	6/11/2020	-7.93	bathymetric (2020)	1274453	196591	1274454	196587	1274455	196589	1.93
145	6/30/2020	-2.47	bathymetric (2020)	1274416	196551	1274419	196555	1274419	196553	1.51
146	6/11/2020	1.93	bathymetric (2020)	1274398	196493	1274395	196492	1274400	196491	5.65
147	6/30/2020	-0.75	bathymetric (2020)	1274469	196456	1274465	196464	1274459	196463	6.25
148	6/11/2020	-13.4	bathymetric (2020)	1274584	196519	1274585	196519	1274588	196520	3.31
149	6/30/2020	-20.97	bathymetric (2020)	1274650	196597	1274649	196598	1274655	196598	5.71
150	6/12/2020	-20.32	bathymetric (2020)	1274712	196539	1274714	196536	1274715	196536	0.56
151	6/12/2020	-0.55	bathymetric (2020)	1274557	196390	1274560	196393	1274561	196392	1.25
152	6/30/2020	4.11	observed (RTK)	1274606	196331	1274597	196330	1274591	196336	8.96
153	6/30/2020	-13.54	bathymetric (2020)	1274711	196408	1274715	196420	1274717	196419	2.99
154	6/5/2020	-2.74	bathymetric (2020)	1274727	196260	1274716	196265	1274715	196266	1.13
155	6/12/2020	-12.51	bathymetric (2020)	1274815	196328	1274814	196336	1274815	196335	1.28
156	6/12/2020	-16.09	bathymetric (2020)	1274905	196312	1274910	196317	1274911	196316	2.09
157	6/30/2020	-13.88	bathymetric (2020)	1274967	196234	1274964	196233	1274965	196232	1.09
158	6/5/2020	-3.49	bathymetric (2020)	1274874	196129	1274879	196132	1274879	196132	0.91
159	6/5/2020	-2.06	bathymetric (2020)	1274860	196054	1274858	196054	1274858	196056	2.53
160	6/16/2020	-10.64	bathymetric (2020)	1275005	196142	1274999	196163	1274999	196162	0.47
162	6/12/2020	-16.29	bathymetric (2020)	1275115	196143	1275116	196144	1275115	196145	1.11
163	6/30/2020	-11.79	bathymetric (2020)	1275106	196060	1275115	196081	1275115	196077	4.33
164	6/5/2020	-2.31	bathymetric (2020)	1275007	195908	1275022	195923	1275024	195924	2.01
165	6/5/2020	-2.57	bathymetric (2020)	1275084	195939	1275084	195952	1275085	195954	2.59
166	6/12/2020	-10.02	bathymetric (2020)	1275177	195999	1275182	195998	1275184	195997	2.54
167	6/5/2020	-2.21	bathymetric (2020)	1275051	195863	1275064	195877	1275063	195878	0.83
168	6/5/2020	-2.39	bathymetric (2020)	1275130	195889	1275130	195889	1275136	195893	7.94
169	6/11/2020	-2.69	bathymetric (2020)	1275185	195857	1275168	195856	1275168	195856	0.41
Segment 2										
200	6/5/2020	-2.70	bathymetric (2020)	1275240	195866	1275250	195853	1275251	195854	1.57
201	6/30/2020	-12.05	bathymetric (2020)	1275326	195858	1275338	195880	1275339	195878	2.64

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				X	Y	X	Y	X_coord	Y_coord	
202	6/15/2020	-17.65	bathymetric (2020)	1275392	195928	1275386	195922	1275387	195922	1.33
203	6/15/2020	-18.18	bathymetric (2020)	1275486	195832	na	na	1275486	195832	0.32
204	6/16/2020	-13.27	bathymetric (2020)	1275453	195766	1275464	195786	1275466	195784	2.86
205	6/24/2020	-13.65	bathymetric (2020)	1275563	195693	1275562	195688	1275561	195690	2.23
206	6/23/2020	-17.71	bathymetric (2020)	1275695	195649	1275695	195653	1275696	195653	1.23
207	6/24/2020	-13.87	bathymetric (2020)	1275649	195589	1275646	195593	1275643	195594	2.97
209	6/24/2020	-15.12	bathymetric (2020)	1275791	195501	1275789	195501	1275787	195503	2.79
210	6/16/2020	-13.91	bathymetric (2020)	1275710	195467	1275706	195472	1275704	195473	2.47
212	6/15/2020	-13.76	bathymetric (2020)	1275766	195326	1275764	195322	1275763	195323	1.87
213	6/24/2020	-14.37	bathymetric (2020)	1275860	195222	1275863	195225	1275863	195226	1.07
214	6/15/2020	-8.26	bathymetric (2020)	1275727	195178	na	na	1275725	195180	3.05
215	6/15/2020	2.75	bathymetric (2020)	1275689	195053	1275686	195050	1275691	195055	6.86
216	6/23/2020	-11.51	bathymetric (2020)	1275780	195087	1275781	195086	1275782	195088	1.43
217	6/15/2020	-14.55	bathymetric (2020)	1275902	195100	1275900	195103	1275903	195102	2.85
219	6/15/2020	-11.15	bathymetric (2020)	1275811	194972	1275809	194973	1275808	194973	1.37
220	6/15/2020	-13.77	bathymetric (2020)	1275945	194924	1275943	194926	1275942	194927	1.39
221	6/30/2020	3.07	bathymetric (2020)	1275766	194755	1275770	194758	1275768	194755	2.90
222	6/19/2020	-12.27	bathymetric (2020)	1275870	194776	1275870	194777	1275870	194776	1.44
223	6/19/2020	-13.84	bathymetric (2020)	1275975	194785	1275974	194785	1275973	194784	1.26
224	6/19/2020	-3.56	bathymetric (2020)	1275822	194662	na	na	1275823	194660	2.07
225	6/23/2020	-12.35	bathymetric (2020)	1275903	194632	1275904	194634	1275904	194636	2.14
226	6/19/2020	-13.03	bathymetric (2020)	1276014	194687	na	na	1276019	194681	7.87
227	6/30/2020	-1.81	bathymetric (2020)	1276107	194659	1276111	194658	1276110	194661	2.47
228	6/26/2020	0.83	bathymetric (2020)	1276145	194673	1276142	194675	1276147	194671	6.67
229	6/30/2020	2.03	bathymetric (2020)	1276160	194630	1276163	194626	1276160	194626	2.58
230	6/19/2020	-13.16	bathymetric (2020)	1276023	194576	1276025	194576	1276026	194572	4.57
232	6/19/2020	-1.17	bathymetric (2020)	1275845	194515	1275839	194509	1275840	194509	0.52
233	6/30/2020	0.12	bathymetric (2020)	1275848	194398	1275850	194398	1275849	194396	1.88
234	6/23/2020	-12.11	bathymetric (2020)	1275953	194424	1275950	194427	1275950	194425	2.12
235	6/19/2020	-12.72	bathymetric (2020)	1276051	194459	1276058	194459	1276059	194461	2.43
236	6/26/2020	-2.26	bathymetric (2020)	1276153	194504	1276150	194503	1276148	194502	1.34
237	6/23/2020	-11.81	bathymetric (2020)	1275965	194333	1275967	194337	1275967	194337	0.68
238	6/19/2020	-12.73	bathymetric (2020)	1276080	194346	1276081	194344	1276081	194341	2.94
239	6/30/2020	3.16	bathymetric (2020)	1275860	194228	1275858	194225	1275858	194225	0.51
240	6/19/2020	1.69	bathymetric (2020)	1275879	194153	1275896	194145	1275895	194144	1.22
241	6/23/2020	-13.11	bathymetric (2020)	1276019	194184	1276024	194188	1276024	194187	0.63
242	6/23/2020	-12.56	bathymetric (2020)	1276133	194201	1276133	194203	1276130	194200	3.46
243	6/19/2020	-1.92	bathymetric (2020)	1276201	194243	1276199	194242	1276200	194244	2.19
244	6/19/2020	-2.60	bathymetric (2020)	1276216	194193	1276211	194193	1276214	194194	2.17
245	6/19/2020	-12.65	bathymetric (2020)	1276136	194138	1276134	194134	1276134	194133	0.80
246	6/24/2020	-12.63	bathymetric (2020)	1276032	194073	1276035	194079	1276035	194079	0.38
247	6/26/2020	-0.86	bathymetric (2020)	1275950	194058	1275942	194055	1275941	194056	0.73
248	6/12/2020	2.14	bathymetric (2020)	1275909	193966	1275907	193959	1275906	193958	1.36
249	6/30/2020	-13.03	bathymetric (2020)	1276094	194010	1276090	194014	1276093	194014	2.30
250	6/19/2020	-12.13	bathymetric (2020)	1276173	193997	1276177	194000	1276177	193999	0.78
251	6/18/2020	-7.50	bathymetric (2020)	1276031	193878	1276031	193874	1276029	193874	1.33
252	6/12/2020	-2.20	bathymetric (2020)	1275947	193849	1275943	193842	1275943	193842	0.11
253	6/12/2020	0.38	bathymetric (2020)	1275933	193729	1275935	193737	1275936	193738	1.91
254	6/30/2020	-13.03	bathymetric (2020)	1276130	193835	1276116	193833	1276124	193835	7.77
255	6/19/2020	-11.76	bathymetric (2020)	1276212	193861	1276211	193864	1276212	193863	0.71
256	6/30/2020	-3.28	bathymetric (2020)	1276286	193911	1276282	193916	1276283	193915	2.04
257	6/26/2020	0.44	bathymetric (2020)	1276327	193924	na	na	1276328	193924	1.38
258	6/26/2020	1.42	bathymetric (2020)	1276353	193856	1276356	193856	1276356	193857	1.15
259	6/30/2020	-1.84	bathymetric (2020)	1276316	193843	1276321	193849	1276318	193845	4.22
260	6/30/2020	-2.44	bathymetric (2020)	1276330	193778	1276333	193771	1276328	193774	6.04
261	6/19/2020	-12.27	bathymetric (2020)	1276216	193734	1276213	193733	1276212	193729	4.24
262	6/30/2020	-11.11	bathymetric (2020)	1276097	193686	1276093	193688	1276096	193690	2.81
263	6/12/2020	-2.14	bathymetric (2020)	1275991	193567	1275990	193563	1275992	193562	2.56
264	6/18/2020	-8.23	bathymetric (2020)	1276076	193588	1276078	193588	1276080	193592	4.23
265	6/30/2020	-12.10	bathymetric (2020)	1276244	193636	1276244	193640	1276245	193640	1.64
266	6/26/2020	-1.00	bathymetric (2020)	1276358	193714	na	na	1276358	193715	1.24
267	6/30/2020	-2.19	bathymetric (2020)	1276363	193627	1276362	193635	1276363	193634	2.12
268	6/26/2020	-0.06	bathymetric (2020)	1276428	193599	1276430	193607	1276431	193607	1.59
269	6/19/2020	-11.79	bathymetric (2020)	1276271	193487	1276277	193488	1276279	193486	2.26
270	6/30/2020	-12.46	bathymetric (2020)	1276226	193416	1276223	193422	1276225	193420	2.35
271	6/12/2020	-5.94	bathymetric (2020)	1276116	193416	1276114	193415	1276116	193418	3.62
272	6/12/2020	-1.51	bathymetric (2020)	1276023	193394	1276024	193396	1276025	193395	1.37
273	6/12/2020	-4.49	bathymetric (2020)	1276102	193341	1276099	193339	1276102	193337	3.78
Segment 3										
300	6/29/2020	0.83	bathymetric (2020)	1276471	193521	1276474	193515	1276474	193514	1.66

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				X	Y	X	Y	X_coord	Y_coord	
301	6/24/2020	6.89	observed (RTK)	1276626	193525	na	na	1276622	193521	5.36
302	6/24/2020	5.97	observed (RTK)	1276644	193476	na	na	1276642	193474	2.97
303	6/29/2020	3.62	bathymetric (2020)	1276579	193424	1276576	193421	1276582	193421	5.78
304	6/25/2020	1.62	bathymetric (2020)	1276499	193435	na	na	1276497	193436	2.74
305	6/29/2020	-3.46	bathymetric (2020)	1276417	193388	1276414	193383	1276413	193383	1.17
306	6/23/2020	4.34	bathymetric (2020)	1276638	193346	na	na	1276635	193346	3.16
307	6/29/2020	0.91	bathymetric (2020)	1276527	193297	1276523	193294	1276522	193297	3.42
308	6/23/2020	3.46	bathymetric (2020)	1276603	193291	1276602	193291	1276601	193291	1.71
309	6/24/2020	4.63	bathymetric (2020)	1276656	193250	na	na	1276654	193254	4.40
310	6/18/2020	-2.41	bathymetric (2020)	1276488	193172	na	na	1276490	193174	2.69
311	6/24/2020	2.51	bathymetric (2020)	1276589	193161	1276585	193168	1276590	193169	5.61
312	6/29/2020	5.87	observed (RTK)	1276691	193156	na	na	1276687	193155	4.03
313	6/24/2020	2.42	bathymetric (2020)	1276611	193086	na	na	1276615	193084	4.84
314	6/30/2020	-11.25	bathymetric (2020)	1276458	193015	1276452	193016	1276453	193014	1.76
315	6/29/2020	-1.39	bathymetric (2020)	1276549	193030	1276542	193027	1276539	193028	2.55
316	6/29/2020	5.97	observed (RTK)	1276702	193064	na	na	1276698	193065	3.49
317	6/24/2020	3.61	bathymetric (2020)	1276666	192983	1276670	192984	1276672	192991	7.25
318	6/18/2020	-5.17	bathymetric (2020)	1276521	192947	na	na	1276521	192945	1.56
319	6/25/2020	-0.26	bathymetric (2020)	1276598	192915	1276602	192911	1276601	192911	0.76
320	6/25/2020	5.76	observed (RTK)	1276761	192921	na	na	1276760	192921	0.62
321	6/29/2020	1.51	bathymetric (2020)	1276670	192854	1276671	192856	1276666	192856	4.9
322	6/18/2020	-7.67	bathymetric (2020)	1276532	192780	1276516	192777	1276519	192778	2.53
323	6/24/2020	2.86	bathymetric (2020)	1276796	192834	na	na	1276793	192833	3.35
324	6/17/2020	-4.00	bathymetric (2020)	1276015	193166	1276015	193168	1276018	193170	3.16
325	6/17/2020	-3.75	bathymetric (2020)	1276052	193059	1276057	193066	1276055	193066	1.69
326	6/17/2020	-3.25	bathymetric (2020)	1276185	193028	1276188	193032	1276190	193032	2.44
327	6/17/2020	-2.94	bathymetric (2020)	1276086	192859	1276088	192858	1276090	192858	2.16
328	6/18/2020	-4.02	bathymetric (2020)	1276017	192814	1276019	192817	1276017	192812	5.08
329	6/19/2020	-2.05	bathymetric (2020)	1276188	192803	1276189	192831	1276180	192837	10.39
331	6/17/2020	-1.11	bathymetric (2020)	1276162	192694	1276162	192697	1276163	192698	1.61
332	6/17/2020	-0.81	bathymetric (2020)	1276246	192701	na	na	1276245	192701	1.28
333	6/11/2020	-6.29	bathymetric (2020)	1276262	192565	1276264	192562	1276262	192562	1.48
335	6/10/2020	-7.13	bathymetric (2020)	1276596	192471	1276597	192473	1276598	192474	1.78
336	6/10/2020	-8.55	bathymetric (2020)	1276658	192584	1276645	192590	1276645	192589	0.92
337	6/10/2020	-5.65	bathymetric (2020)	1276715	192501	1276714	192500	1276713	192496	4.81
338	6/10/2020	-8.80	bathymetric (2020)	1276777	192598	na	na	1276779	192599	2.29
339	6/16/2020	-5.56	bathymetric (2020)	1276784	192699	1276784	192699	1276780	192703	5.80
340	6/16/2020	-5.06	bathymetric (2020)	1276869	192749	na	na	1276867	192748	1.91
341	6/15/2020	-2.73	bathymetric (2020)	1276916	192563	na	na	1276917	192561	2.23
342	6/16/2020	-7.20	bathymetric (2020)	1277032	192803	1277032	192803	1277032	192803	0.53
343	6/16/2020	-8.50	bathymetric (2020)	1277075	192740	1277073	192740	1277072	192741	1.07
344	6/15/2020	-2.93	bathymetric (2020)	1277219	192706	na	na	1277212	192705	7.02
345	6/16/2020	-5.85	bathymetric (2020)	1277273	192764	na	na	1277271	192761	3.46
346	6/16/2020	-8.55	bathymetric (2020)	1277189	192819	na	na	1277189	192820	1.04
347	6/15/2020	-7.22	bathymetric (2020)	1277209	192892	na	na	1277209	192896	3.58
348	6/16/2020	-8.23	bathymetric (2020)	1277315	192933	na	na	1277315	192932	0.60
349	6/16/2020	-7.95	bathymetric (2020)	1277358	192837	na	na	1277358	192836	0.57
350	6/15/2020	-5.25	bathymetric (2020)	1277452	192822	na	na	1277431	192833	23.57
351	6/16/2020	-8.38	bathymetric (2020)	1277485	192933	na	na	1277485	192934	1.19
352	6/15/2020	-8.45	bathymetric (2020)	1277422	192973	na	na	1277422	192973	0.60
353	6/16/2020	-4.82	bathymetric (2020)	1277431	193028	na	na	1277430	193029	1.36
355	6/10/2020	-3.35	bathymetric (2020)	1276710	192213	1276712	192213	1276711	192210	3.46
356	6/10/2020	-0.81	bathymetric (2020)	1276783	192207	1276782	192204	1276782	192203	1.19
357	6/10/2020	-0.66	bathymetric (2020)	1276829	192128	1276824	192130	1276823	192131	1.28
358	6/29/2020	-0.60	bathymetric (2020)	1276422	192130	1276416	192127	1276416	192125	1.87
359	6/18/2020	3.57	bathymetric (2020)	1276343	192109	na	na	1276345	192115	6.02
360	6/29/2020	2.65	bathymetric (2020)	1276371	191985	1276373	191986	1276371	191985	1.99
361	6/29/2020	-1.47	bathymetric (2020)	1276477	191906	1276496	191912	1276493	191911	3.57
364	6/10/2020	-0.78	bathymetric (2020)	1276931	191853	na	na	1276928	191851	3.82
365	6/17/2020	-2.78	bathymetric (2020)	1276517	191754	1276526	191766	1276528	191762	5.18
367	6/29/2020	-1.26	bathymetric (2020)	1276868	191451	1276868	191449	1276866	191453	4.02
368	6/17/2020	-5.72	bathymetric (2020)	1276610	191341	1276589	191334	1276587	191332	2.36
370	6/29/2020	-6.39	bathymetric (2020)	1276655	191188	1276649	191190	1276650	191191	0.83
371	6/29/2020	0.92	bathymetric (2020)	1276991	191127	1276988	191122	1276984	191123	4.17
372	6/17/2020	1.54	bathymetric (2020)	1277046	190939	na	na	1277039	190939	7.10
373	6/29/2020	1.98	bathymetric (2020)	1276562	190728	1276569	190730	1276571	190730	2.43
375	6/29/2020	-1.13	bathymetric (2020)	1276679	190609	1276673	190612	1276675	190610	2.23
376	6/29/2020	-2.99	bathymetric (2020)	1277046	190785	1277047	190782	1277046	190783	1.22
377	6/18/2020	1.06	bathymetric (2020)	1277144	190834	na	na	1277142	190833	2.43
378	6/29/2020	0.71	bathymetric (2020)	1277188	190742	1277189	190739	1277186	190735	4.78

Table A-1. Phase 1 Surface Sediment Grab Coordinates

Location ID ^a	Collection Date	Mudline Elevation (ft MLLW)	Elevation Type	Target Coordinates (per QAPP)		Revised Target Coordinates (To Reflect Actual Subsurface Core Coordinates)		Actual Coordinates		Distance From Target (ft)
				X	Y	X	Y	X_coord	Y_coord	
379	6/18/2020	2.15	bathymetric (2020)	1277333	190612	1277341	190614	1277343	190614	1.99
380	6/26/2020	-5.38	bathymetric (2020)	1277354	190522	1277364	190537	1277369	190535	5.53
382	6/29/2020	6.22	observed (RTK)	1276992	190050	1276999	190071	1276997	190072	2.56
383	6/25/2020	6.93	observed (RTK)	1277150	189888	na	na	1277154	189892	6.22
384	6/29/2020	7.33	observed (RTK)	1277231	189852	1277228	189853	1277235	189862	11.12
385	6/29/2020	5.02	bathymetric (2020)	1277226	190006	1277225	190007	1277225	190013	6.21
386	6/29/2020	3.01	bathymetric (2020)	1277405	190132	1277404	190131	1277405	190136	5.28
387	6/29/2020	2.69	bathymetric (2020)	1277633	190135	1277635	190130	1277636	190134	3.70
388	6/18/2020	6.66	observed (RTK)	1277514	190058	1277523	190058	1277522	190054	4.25
389	6/25/2020	2.10	bathymetric (2020)	1277627	190001	na	na	1277625	190010	9.58
390	6/25/2020	1.86	observed (RTK)	1277558	189941	1277560	189937	1277561	189940	3.89
391	6/29/2020	3.45	observed (RTK)	1277492	189847	1277495	189842	1277493	189844	3.07
392	6/25/2020	-7.81	bathymetric (2020)	1277675	190427	1277672	190428	1277670	190428	2.03
393	6/25/2020	not measured	na	1277742	190519	na	na	1277742	190518	1.51
Segment 4										
400	6/23/2020	1.62	bathymetric (2020)	1278186	190432	1278191	190432	1278196	190427	7.23
401	6/23/2020	1.13	bathymetric (2020)	1278219	190415	na	na	1278224	190407	9.47
402	6/30/2020	-5.82	bathymetric (2020)	1278189	190388	na	na	1278190	190387	2.02
403	6/30/2020	-4.58	bathymetric (2020)	1278214	190320	na	na	1278216	190319	2.01
404	6/24/2020	-5.90	bathymetric (2020)	1278241	190354	na	na	1278244	190362	8.30
405	6/30/2020	-4.51	bathymetric (2020)	1278269	190318	na	na	1278269	190313	5.28
406	6/23/2020	0.22	observed (RTK)	1278298	190362	na	na	1278307	190365	9.03
407	6/24/2020	-2.15	bathymetric (2020)	1278327	190299	na	na	1278334	190298	7.46
408	6/30/2020	-5.19	bathymetric (2020)	1278316	190262	na	na	1278314	190261	2.63
409	6/18/2020	1.31	bathymetric (2020)	1278135	190122	1278134	190120	1278142	190117	8.87
410	6/30/2020	-5.85	observed (RTK)	1278372	190346	1278359	190331	1278363	190352	20.78
411	6/22/2020	4.29	observed (RTK)	1278412	190348	na	na	1278412	190344	4.08
412	6/30/2020	-4.86	bathymetric (2020)	1278410	190303	na	na	1278409	190300	3.45
413	6/25/2020	-3.81	bathymetric (2020)	1278388	190239	na	na	1278417	190227	31.42
414	6/30/2020	-4.93	bathymetric (2020)	1278438	190254	na	na	1278440	190251	2.95
415	6/23/2020	6.17	observed (RTK)	1278474	190295	1278470	190288	1278470	190288	8.11
416	6/25/2020	3.34	bathymetric (2020)	1278509	190247	1278509	190247	1278513	190248	4.29
417	6/19/2020	3.56	bathymetric (2020)	1278533	190248	na	na	1278528	190240	9.38
418	6/25/2020	1.87	bathymetric (2020)	1278537	190221	1278534	190224	1278532	190221	3.50
419	6/25/2020	4.54	bathymetric (2020)	1278565	190218	1278559	190211	1278559	190213	1.71
420	6/26/2020	-5.26	bathymetric (2020)	1278508	190171	na	na	1278512	190173	4.01
421	6/17/2020	-1.02	bathymetric (2020)	1278413	189965	1278418	189968	1278419	189968	1.11
422	6/26/2020	-4.53	bathymetric (2020)	1278600	190086	na	na	1278602	190087	2.19
423	6/30/2020	-0.45	observed (RTK)	1278622	190172	na	na	1278621	190164	8.37
424	6/26/2020	2.38	bathymetric (2020)	1278654	190105	1278646	190103	1278646	190105	1.85
425	6/23/2020	-1.19	bathymetric (2020)	1278671	190051	1278673	190049	1278666	190053	7.84
426	6/17/2020	1.20	bathymetric (2020)	1278712	190048	na	na	1278710	190047	1.74
427	6/26/2020	-2.13	bathymetric (2020)	1278725	189992	1278729	189996	1278725	189988	8.58

^a **Bold** Location IDs indicate a reoccupy location

na -- not applicable

Table A-2. Phase 1 Subsurface Sediment Core Coordinates

Location ID ^a	Location Type	Collection Date	Mudline Elevation (ft MLLW)	Elevation Type	Target Coordinates		Actual Coordinates		Distance From Target (ft)
					X	Y	X_coord	Y_coord	
Segment 1									
100	Subtidal (0-60 cm)	6/25/2020	-17.14	observed(RTK)	1273310	197775	1273308	197777	2.69
101	Subtidal (0-60 cm)	6/2/2020	-11.23	observed(RTK)	1273249	197679	1273253	197672	7.68
102	Subtidal (0-60 cm)	6/2/2020	-17.25	observed(RTK)	1273379	197719	1273379	197714	4.56
103	Subtidal (0-60 cm)	6/25/2020	-17.03	observed(RTK)	1273334	197665	1273333	197665	1.16
104	Subtidal (0-60 cm)	6/25/2020	-17.05	observed(RTK)	1273450	197657	1273451	197657	0.67
105	Intertidal (0-45 cm)	6/2/2020	-0.04	observed(RTK)	1273347	197447	1273348	197442	5.43
106	Intertidal (0-45 cm)	6/2/2020	-0.98	observed(RTK)	1273379	197419	1273386	197420	6.85
107	Intertidal (0-45 cm)	6/24/2020	-3.12	observed(RTK)	1273412	197453	1273413	197449	4.46
108	Subtidal (0-60 cm)	6/25/2020	-16.86	observed(RTK)	1273548	197559	1273552	197557	4.08
109	Subtidal (0-60 cm)	6/1/2020	-17.23	observed(RTK)	1273586	197487	1273586	197487	0.45
110	Intertidal (0-45 cm)	6/24/2020	-0.83	observed(RTK)	1273472	197364	1273472	197368	4.23
111	Subtidal (0-60 cm)	6/25/2020	-12.73	observed(RTK)	1273585	197394	1273582	197394	2.56
112	Intertidal (0-45 cm)	6/24/2020	-0.06	observed(RTK)	1273526	197276	1273532	197281	7.83
113	Subtidal (0-60 cm)	6/1/2020	-6.39	observed(RTK)	1273587	197311	1273593	197316	7.81
114	Subtidal (0-60 cm)	6/25/2020	-16.93	observed(RTK)	1273695	197426	1273696	197426	1.22
115	Subtidal (0-60 cm)	6/25/2020	-17.81	observed(RTK)	1273705	197341	1273704	197342	0.27
116	Intertidal (0-45 cm)	6/24/2020	-1.88	observed(RTK)	1273624	197239	1273629	197244	7.19
117	Subtidal (0-60 cm)	6/2/2020	-16.20	observed(RTK)	1273793	197347	1273795	197349	2.40
118	Subtidal (0-60 cm)	6/25/2020	-17.14	observed(RTK)	1273791	197243	1273790	197245	2.51
119	Subtidal (0-60 cm)	6/25/2020	-15.6	observed(RTK)	1273870	197277	1273871	197280	3.57
120	Intertidal (0-45 cm)	6/24/2020	-1.06	observed(RTK)	1273735	197120	1273740	197121	5.67
121	Subtidal (0-60 cm)	6/2/2020	-7.30	observed(RTK)	1273805	197128	1273801	197126	4.00
122	Subtidal (0-60 cm)	6/25/2020	-17.21	observed(RTK)	1273877	197160	1273870	197159	7.15
123	Subtidal (0-60 cm)	6/2/2020	-16.98	observed(RTK)	1273927	197209	1273922	197206	6.28
124	Intertidal (0-45 cm)	6/24/2020	0.09	observed(RTK)	1273840	197017	1273837	197014	4.03
125	Subtidal (0-60 cm)	6/2/2020	-17.11	observed(RTK)	1273945	197086	1273950	197083	5.6
126	Subtidal (0-60 cm)	6/25/2020	-15.89	observed(RTK)	1273999	197146	1273997	197149	3.74
127	Intertidal (0-45 cm)	6/2/2020	-0.84	observed(RTK)	1273911	196942	1273910	196939	3.48
128	Subtidal (0-60 cm)	6/24/2020	-6.97	observed(RTK)	1273964	196988	1273968	196984	5.74
129	Subtidal (0-60 cm)	6/25/2020	-17.93	observed(RTK)	1274069	196989	1274068	196992	3.71
130	Subtidal (0-60 cm)	6/2/2020	-16.16	observed(RTK)	1274133	197026	1274139	197017	11.36
131	Subtidal (0-60 cm)	6/24/2020	-9.49	observed(RTK)	1274111	196888	1274108	196882	6.74
132	Subtidal (0-60 cm)	6/24/2020	-17.86	observed(RTK)	1274211	196936	1274213	196933	3.93
133	Intertidal (0-45 cm)	6/3/2020	-4.06	observed(RTK)	1274128	196821	1274132	196820	3.64
134	Subtidal (0-60 cm)	6/24/2020	-4.84	observed(RTK)	1274198	196753	1274195	196747	6.74
135	Subtidal (0-60 cm)	6/3/2020	-18.45	observed(RTK)	1274299	196841	1274302	196841	3.29
136	Subtidal (0-60 cm)	6/24/2020	-10.03	observed(RTK)	1274271	196754	1274267	196746	8.53
137	Intertidal (0-45 cm)	6/24/2020	-0.25	observed(RTK)	1274225	196679	1274233	196683	9.64
138	Subtidal (0-60 cm)	6/25/2020	-19.30	observed(RTK)	1274371	196778	1274367	196781	5.36
139	Intertidal (0-45 cm)	6/3/2020	2.09	observed(RTK)	1274280	196614	1274277	196619	5.44
140	Subtidal (0-60 cm)	6/3/2020	-6.45	observed(RTK)	1274332	196649	1274335	196648	3.22
141	Subtidal (0-60 cm)	6/24/2020	-14.05	observed(RTK)	1274380	196679	1274373	196683	7.82
142	Subtidal (0-60 cm)	6/3/2020	-20.54	observed(RTK)	1274451	196708	1274449	196710	2.52
143	Intertidal (0-45 cm)	6/25/2020	4.27	observed(RTK)	1274343	196540	1274345	196540	2.20
144	Subtidal (0-60 cm)	6/3/2020	-8.30	observed(RTK)	1274453	196591	1274454	196587	4.26
145	Intertidal (0-45 cm)	6/24/2020	-3.10	observed(RTK)	1274416	196551	1274419	196555	5.47
146	Intertidal (0-45 cm)	6/3/2020	1.93	observed(RTK)	1274398	196493	1274395	196492	3.24
147	Intertidal (0-45 cm)	6/25/2020	-0.92	observed(RTK)	1274469	196456	1274465	196464	8.89
148	Subtidal (shoal)	6/8/2020	-12.00	observed(RTK)	1274584	196519	1274585	196519	1.28
149	Subtidal (0-60 cm)	6/25/2020	-21.51	observed(RTK)	1274650	196597	1274649	196598	1.87
150	Subtidal (0-60 cm)	6/3/2020	-20.41	observed(RTK)	1274712	196539	1274714	196536	3.00
151	Intertidal (0-45 cm)	6/3/2020	-0.89	observed(RTK)	1274557	196390	1274560	196393	4.06
152	Intertidal (0-45 cm)	6/25/2020	4.11	observed(RTK)	1274606	196331	1274597	196330	8.63
153	Subtidal (shoal)	6/26/2020	-12.54	observed(RTK)	1274711	196408	1274715	196420	12.74
154	Subtidal (0-60 cm)	6/4/2020	-2.95	observed(RTK)	1274727	196260	1274716	196265	11.45
155	Subtidal (shoal)	6/8/2020	-13.4	observed(RTK)	1274815	196328	1274814	196336	8.26
156	Subtidal (0-60 cm)	6/3/2020	-16.05	observed(RTK)	1274905	196312	1274910	196317	7.07
157	Subtidal (shoal)	6/26/2020	-14.15	observed(RTK)	1274967	196234	1274964	196233	3.79
158	Subtidal (0-60 cm)	6/4/2020	-3.24	observed(RTK)	1274874	196129	1274879	196132	5.10
159	Subtidal (0-60 cm)	6/4/2020	-1.75	observed(RTK)	1274860	196054	1274858	196054	2.05
160	Subtidal (shoal)	6/15/2020	-10.98	observed(RTK)	1275005	196142	1274999	196163	21.64
161	Subtidal (0-60 cm)	6/4/2020	-2.12	observed(RTK)	1274943	196000	1274937	195996	7.64
162	Subtidal (0-60 cm)	6/3/2020	-16.32	observed(RTK)	1275115	196143	1275116	196144	0.94
163	Subtidal (shoal)	6/26/2020	-12.36	observed(RTK)	1275106	196060	1275115	196081	23.46
164	Subtidal (0-60 cm)	6/4/2020	-2.17	observed(RTK)	1275007	195908	1275022	195923	21.28
165	Subtidal (0-60 cm)	6/4/2020	-2.74	observed(RTK)	1275084	195939	1275084	195952	12.58
166	Subtidal (shoal)	6/8/2020	-10.39	observed(RTK)	1275177	195999	1275182	195998	5.31
167	Subtidal (0-60 cm)	6/4/2020	-2.29	observed(RTK)	1275051	195863	1275064	195877	18.99
168	Subtidal (0-60 cm)	6/4/2020	-2.38	observed(RTK)	1275130	195889	1275130	195889	0.27
169	Subtidal (0-60 cm)	6/5/2020	-2.26	observed(RTK)	1275185	195857	1275168	195856	16.81
Segment 2									

Table A-2. Phase 1 Subsurface Sediment Core Coordinates

Location ID ^a	Location Type	Collection Date	Mudline Elevation (ft MLLW)	Elevation Type	Target Coordinates		Actual Coordinates		Distance From Target (ft)
					X	Y	X_coord	Y_coord	
200	Intertidal (0-45 cm)	6/4/2020	-2.76	observed(RTK)	1275240	195866	1275250	195853	17.4
201	Subtidal (shoal)	6/25/2020	-12.23	observed(RTK)	1275326	195858	1275338	195880	25.24
202	Subtidal (0-60 cm)	6/3/2020	-17.94	observed(RTK)	1275392	195928	1275386	195922	8.38
203	Subtidal (0-60 cm)	6/3/2020	-18.75	observed(RTK)	1275486	195832	1275484	195830	2.41
204	Subtidal (shoal)	6/15/2020	-13.49	observed(RTK)	1275453	195766	1275464	195786	23.45
205	Subtidal (shoal)	6/23/2020	-13.86	observed(RTK)	1275563	195693	1275562	195688	4.98
206	Subtidal (0-60 cm)	6/22/2020	-17.28	observed(RTK)	1275695	195649	1275695	195653	3.61
207	Subtidal (shoal)	6/23/2020	-14.11	observed(RTK)	1275649	195589	1275646	195593	4.77
208	Subtidal (shoal)	6/8/2020	-13.46	observed(RTK)	1275776	195554	1275777	195553	1.39
209	Subtidal (0-60 cm)	6/23/2020	-15.33	observed(RTK)	1275791	195501	1275789	195501	2.22
210	Subtidal (shoal)	6/15/2020	-13.97	observed(RTK)	1275710	195467	1275706	195472	6.06
211	Subtidal (0-60 cm)	6/3/2020	-15.14	observed(RTK)	1275826	195385	1275824	195379	6.46
212	Subtidal (shoal)	6/12/2020	-14.05	observed(RTK)	1275766	195326	1275764	195322	4.57
213	Subtidal (shoal)	6/23/2020	-14.83	observed(RTK)	1275860	195222	1275863	195225	4.00
214	Subtidal (0-60 cm)	6/4/2020	-7.46	observed(RTK)	1275727	195178	1275726	195178	0.89
215	Intertidal (0-45 cm)	6/5/2020	2.82	observed(RTK)	1275689	195053	1275686	195050	4.10
216	Subtidal (shoal)	6/22/2020	-11.97	observed(RTK)	1275780	195087	1275781	195086	1.82
217	Subtidal (shoal)	6/12/2020	-15.08	observed(RTK)	1275902	195100	1275900	195103	3.45
218	Intertidal (0-45 cm)	6/19/2020	0.47	observed(RTK)	1275730	194977	1275729	194975	2.18
219	Subtidal (shoal)	6/12/2020	-11.63	observed(RTK)	1275811	194972	1275809	194973	1.96
220	Subtidal (shoal)	6/12/2020	-14.28	observed(RTK)	1275945	194924	1275943	194926	2.62
221	Intertidal (0-45 cm)	6/19/2020	2.08	observed(RTK)	1275766	194755	1275770	194758	4.21
222	Subtidal (shoal)	6/12/2020	-12.78	observed(RTK)	1275870	194776	1275870	194777	1.23
223	Subtidal (shoal)	6/12/2020	-14.25	observed(RTK)	1275975	194785	1275974	194785	1.68
224	Intertidal (0-45 cm)	6/10/2020	-2.31	observed(RTK)	1275822	194662	1275820	194657	5.40
225	Subtidal (shoal)	6/22/2020	-12.84	observed(RTK)	1275903	194632	1275904	194634	1.77
227	Intertidal (0-45 cm)	6/19/2020	-1.39	observed(RTK)	1276107	194659	1276111	194658	3.57
228	Intertidal (0-45 cm)	6/10/2020	0.14	observed(RTK)	1276145	194673	1276142	194675	3.71
229	Intertidal (0-45 cm)	6/19/2020	3.04	observed(RTK)	1276160	194630	1276163	194626	4.68
230	Subtidal (shoal)	6/12/2020	-13.94	observed(RTK)	1276023	194576	1276025	194576	2.05
231	Subtidal (shoal)	6/19/2020	-12.62	observed(RTK)	1275934	194525	1275935	194524	1.15
232	Intertidal (0-45 cm)	6/4/2020	-1.74	observed(RTK)	1275845	194515	1275839	194509	8.00
233	Intertidal (0-45 cm)	6/19/2020	0.04	observed(RTK)	1275848	194398	1275850	194398	1.62
234	Subtidal (shoal)	6/19/2020	-12.43	observed(RTK)	1275953	194424	1275950	194427	4.18
235	Subtidal (shoal)	6/10/2020	-13.42	observed(RTK)	1276051	194459	1276058	194459	7.43
236	Intertidal (0-45 cm)	6/4/2020	-2.35	observed(RTK)	1276153	194504	1276150	194503	3.93
237	Subtidal (shoal)	6/19/2020	-11.89	observed(RTK)	1275965	194333	1275967	194337	4.06
238	Subtidal (shoal)	6/10/2020	-13.26	observed(RTK)	1276080	194346	1276081	194344	2.64
239	Intertidal (0-45 cm)	6/19/2020	3.0	observed(RTK)	1275860	194228	1275858	194225	4.07
240	Intertidal (0-45 cm)	6/5/2020	0.76	observed(RTK)	1275879	194153	1275896	194145	18.75
241	Subtidal (shoal)	6/19/2020	-12.85	observed(RTK)	1276019	194184	1276024	194188	5.83
242	Subtidal (shoal)	6/19/2020	-12.13	observed(RTK)	1276133	194201	1276133	194203	2.08
243	Intertidal (0-45 cm)	6/4/2020	-2.56	observed(RTK)	1276201	194243	1276199	194242	2.66
244	Intertidal (0-45 cm)	6/10/2020	-1.62	observed(RTK)	1276216	194193	1276211	194193	4.51
245	Subtidal (shoal)	6/11/2020	-13.29	observed(RTK)	1276136	194138	1276134	194134	4.41
246	Subtidal (shoal)	6/18/2020	-13.12	observed(RTK)	1276032	194073	1276035	194079	6.81
247	Intertidal (0-45 cm)	6/5/2020	-1.12	observed(RTK)	1275950	194058	1275942	194055	8.74
248	Intertidal (0-45 cm)	6/11/2020	1.62	observed(RTK)	1275909	193966	1275907	193959	7.79
249	Subtidal (shoal)	6/18/2020	-13.67	observed(RTK)	1276094	194010	1276090	194014	4.94
250	Subtidal (shoal)	6/10/2020	-12.18	observed(RTK)	1276173	193997	1276177	194000	4.57
251	Subtidal (0-60 cm)	6/4/2020	-8.07	observed(RTK)	1276031	193878	1276031	193874	4.09
252	Intertidal (0-45 cm)	6/11/2020	-2.26	observed(RTK)	1275947	193849	1275943	193842	8.22
253	Intertidal (0-45 cm)	6/11/2020	0.95	observed(RTK)	1275933	193729	1275935	193737	7.50
254	Subtidal (shoal)	6/18/2020	-13.37	observed(RTK)	1276130	193835	1276116	193833	13.95
255	Subtidal (shoal)	6/11/2020	-12.09	observed(RTK)	1276212	193861	1276211	193864	2.42
256	Intertidal (0-45 cm)	6/19/2020	-3.37	observed(RTK)	1276286	193911	1276282	193916	5.90
257	Intertidal (0-45 cm)	6/12/2020	1.79	observed(RTK)	1276327	193924	1276328	193927	2.84
258	Intertidal (0-45 cm)	6/12/2020	1.48	observed(RTK)	1276353	193856	1276356	193856	3.03
259	Intertidal (0-45 cm)	6/19/2020	-1.90	observed(RTK)	1276316	193843	1276321	193849	6.97
260	Intertidal (0-45 cm)	6/18/2020	-2.35	observed(RTK)	1276330	193778	1276333	193771	7.38
261	Subtidal (shoal)	6/11/2020	-12.88	observed(RTK)	1276216	193734	1276213	193733	3.21
262	Subtidal (0-60 cm)	6/18/2020	-10.77	observed(RTK)	1276097	193686	1276093	193688	4.09
263	Intertidal (0-45 cm)	6/11/2020	-2.07	observed(RTK)	1275991	193567	1275990	193563	4.71
264	Subtidal (0-60 cm)	6/4/2020	-7.32	observed(RTK)	1276076	193588	1276078	193588	1.94
265	Subtidal (shoal)	6/18/2020	-12.49	observed(RTK)	1276244	193636	1276244	193640	3.98
266	Intertidal (0-45 cm)	6/12/2020	-0.92	observed(RTK)	1276358	193714	1276360	193715	2.48
267	Intertidal (0-45 cm)	6/18/2020	-2.06	observed(RTK)	1276363	193627	1276362	193635	8.05
268	Intertidal (0-45 cm)	6/11/2020	-0.75	observed(RTK)	1276428	193599	1276430	193607	8.43
269	Subtidal (shoal)	6/11/2020	-12.15	observed(RTK)	1276271	193487	1276277	193488	6.34
270	Subtidal (shoal)	6/18/2020	-13.03	observed(RTK)	1276226	193416	1276223	193422	7.41
271	Subtidal (0-60 cm)	6/11/2020	-6.00	observed(RTK)	1276116	193416	1276114	193415	1.77
272	Intertidal (0-45 cm)	6/11/2020	-1.24	observed(RTK)	1276023	193394	1276024	193396	2.23

Table A-2. Phase 1 Subsurface Sediment Core Coordinates

Location ID ^a	Location Type	Collection Date	Mudline Elevation (ft MLLW)	Elevation Type	Target Coordinates		Actual Coordinates		Distance From Target (ft)
					X	Y	X_coord	Y_coord	
273	Subtidal (0-60 cm)	6/11/2020	-4.66	observed(RTK)	1276102	193341	1276099	193339	4.31
Segment 3									
300	Intertidal (0-45 cm)	6/25/2020	0.74	observed(RTK)	1276471	193521	1276474	193515	6.56
301	Intertidal (0-45 cm)	6/22/2020	6.89	observed(RTK)	1276626	193525	1276618	193520	9.69
302	Intertidal (0-45 cm)	6/22/2020	5.97	observed(RTK)	1276644	193476	1276636	193474	8.35
303	Intertidal (0-45 cm)	6/24/2020	0.72	observed(RTK)	1276579	193424	1276576	193421	4.60
304	Intertidal (0-45 cm)	6/23/2020	1.40	observed(RTK)	1276499	193435	1276495	193431	5.72
305	Intertidal (0-45 cm)	6/18/2020	-2.42	observed(RTK)	1276417	193388	1276414	193383	6.27
306	Intertidal (0-45 cm)	6/22/2020	4.77	observed(RTK)	1276638	193346	1276636	193343	3.39
307	Intertidal (0-45 cm)	6/24/2020	-5.09	observed(RTK)	1276527	193297	1276523	193294	4.63
308	Intertidal (0-45 cm)	6/22/2020	3.91	observed(RTK)	1276603	193291	1276602	193291	0.72
309	Intertidal (0-45 cm)	6/22/2020	4.97	observed(RTK)	1276656	193250	1276648	193250	7.86
310	Intertidal (0-45 cm)	6/5/2020	-2.26	observed(RTK)	1276488	193172	1276488	193180	8.40
311	Intertidal (0-45 cm)	6/23/2020	2.37	observed(RTK)	1276589	193161	1276585	193168	7.78
312	Intertidal (0-45 cm)	6/22/2020	5.87	observed(RTK)	1276691	193156	1276685	193154	6.50
313	Intertidal (0-45 cm)	6/23/2020	-0.26	observed(RTK)	1276611	193086	1276616	193080	7.62
314	Subtidal (0-60 cm)	6/17/2020	-10.87	observed(RTK)	1276458	193015	1276452	193016	6.08
315	Intertidal (0-45 cm)	6/18/2020	-1.96	observed(RTK)	1276549	193030	1276542	193027	7.36
316	Intertidal (0-45 cm)	6/22/2020	5.97	observed(RTK)	1276702	193064	1276695	193065	6.51
317	Intertidal (0-45 cm)	6/23/2020	3.10	observed(RTK)	1276666	192983	1276670	192984	3.90
318	Subtidal (0-60 cm)	6/4/2020	-5.31	observed(RTK)	1276521	192947	1276517	192944	4.76
319	Intertidal (0-45 cm)	6/19/2020	-0.11	observed(RTK)	1276598	192915	1276602	192911	4.78
320	Intertidal (0-45 cm)	6/22/2020	5.76	observed(RTK)	1276761	192921	1276757	192920	4.52
321	Intertidal (0-45 cm)	6/23/2020	2.15	observed(RTK)	1276670	192854	1276671	192856	2.36
322	Subtidal (0-60 cm)	6/5/2020	-7.58	observed(RTK)	1276532	192780	1276516	192777	15.99
323	Intertidal (0-45 cm)	6/22/2020	2.32	observed(RTK)	1276796	192834	1276789	192831	7.80
324	Subtidal (0-60 cm)	6/16/2020	-3.93	observed(RTK)	1276015	193166	1276015	193168	2.47
325	Subtidal (0-60 cm)	6/16/2020	-3.54	observed(RTK)	1276052	193059	1276057	193066	8.15
326	Subtidal (0-60 cm)	6/16/2020	-2.88	observed(RTK)	1276185	193028	1276188	193032	5.37
327	Subtidal (0-60 cm)	6/16/2020	-2.66	observed(RTK)	1276086	192859	1276088	192858	1.87
328	Subtidal (0-60 cm)	6/16/2020	-3.69	observed(RTK)	1276017	192814	1276019	192817	3.01
329	Subtidal (0-60 cm)	6/16/2020	-1.65	observed(RTK)	1276188	192803	1276189	192831	28.66
330	Intertidal (0-45 cm)	6/16/2020	0.20	observed(RTK)	1276058	192701	1276058	192704	2.42
331	Intertidal (0-45 cm)	6/16/2020	-1.36	observed(RTK)	1276162	192694	1276162	192697	2.64
332	Intertidal (0-45 cm)	6/16/2020	-0.66	observed(RTK)	1276246	192701	1276247	192700	1.07
333	Subtidal (0-60 cm)	6/10/2020	-6.08	observed(RTK)	1276262	192565	1276264	192562	2.59
334	Intertidal (0-45 cm)	6/10/2020	0.41	observed(RTK)	1276283	192341	1276285	192342	2.62
335	Subtidal (0-60 cm)	6/9/2020	-7.49	observed(RTK)	1276596	192471	1276597	192473	2.44
336	Subtidal (0-60 cm)	6/5/2020	-8.58	observed(RTK)	1276658	192584	1276645	192590	14.07
337	Subtidal (0-60 cm)	6/9/2020	-5.96	observed(RTK)	1276715	192501	1276714	192500	1.14
339	Subtidal (0-60 cm)	6/15/2020	-5.87	observed(RTK)	1276784	192699	1276784	192699	0.80
340	Subtidal (0-60 cm)	6/15/2020	-6.05	observed(RTK)	1276869	192749	1276869	192747	1.77
342	Subtidal (0-60 cm)	6/15/2020	-7.31	observed(RTK)	1277032	192803	1277032	192803	0.71
343	Subtidal (0-60 cm)	6/15/2020	-8.50	observed(RTK)	1277075	192740	1277073	192740	1.99
345	Subtidal (0-60 cm)	6/15/2020	-6.51	observed(RTK)	1277273	192764	1277273	192768	3.92
346	Subtidal (0-60 cm)	6/15/2020	-8.49	observed(RTK)	1277189	192819	1277189	192822	3.23
348	Subtidal (0-60 cm)	6/15/2020	-8.43	observed(RTK)	1277315	192933	1277316	192932	1.79
349	Subtidal (0-60 cm)	6/15/2020	-8.05	observed(RTK)	1277358	192837	1277360	192835	2.87
351	Subtidal (0-60 cm)	6/15/2020	-8.36	observed(RTK)	1277485	192933	1277485	192930	2.56
353	Subtidal (0-60 cm)	6/15/2020	-5.63	observed(RTK)	1277431	193028	1277429	193028	1.72
354	Intertidal (0-45 cm)	6/9/2020	-1.71	observed(RTK)	1276711	192334	1276711	192331	2.70
355	Subtidal (0-60 cm)	6/9/2020	-1.75	observed(RTK)	1276710	192213	1276712	192213	2.84
356	Intertidal (0-45 cm)	6/9/2020	-0.79	observed(RTK)	1276783	192207	1276782	192204	2.88
357	Intertidal (0-45 cm)	6/9/2020	-0.85	observed(RTK)	1276829	192128	1276824	192130	6.03
358	Intertidal (0-45 cm)	6/18/2020	-0.64	observed(RTK)	1276422	192130	1276416	192127	7.13
359	Intertidal (0-45 cm)	6/10/2020	-2.80	observed(RTK)	1276343	192109	1276347	192108	3.99
360	Intertidal (0-45 cm)	6/18/2020	2.69	observed(RTK)	1276371	191985	1276373	191986	1.47
361	Intertidal (0-45 cm)	6/5/2020	-2.30	observed(RTK)	1276477	191906	1276496	191912	19.58
362	Subtidal (0-60 cm)	6/9/2020	-5.11	observed(RTK)	1276734	191902	1276734	191901	0.83
363	Intertidal (0-45 cm)	6/9/2020	-0.29	observed(RTK)	1276901	191906	1276899	191900	5.99
364	Intertidal (0-45 cm)	6/10/2020	1.19	observed(RTK)	1276931	191853	1276923	191849	8.56
365	Intertidal (0-45 cm)	6/5/2020	-2.83	observed(RTK)	1276517	191754	1276526	191766	14.88
366	Subtidal (0-60 cm)	6/17/2020	-7.17	observed(RTK)	1276607	191549	1276611	191549	3.45
367	Intertidal (0-45 cm)	6/17/2020	-1.14	observed(RTK)	1276868	191451	1276868	191449	2.06
368	Subtidal (0-60 cm)	6/16/2020	-5.99	observed(RTK)	1276610	191341	1276589	191334	22.76
369	Intertidal (0-45 cm)	6/9/2020	3.15	observed(RTK)	1276950	191330	1276948	191325	5.19
370	Subtidal (0-60 cm)	6/17/2020	-6.11	observed(RTK)	1276655	191188	1276649	191190	6.33
371	Intertidal (0-45 cm)	6/17/2020	1.19	observed(RTK)	1276991	191127	1276988	191122	6.10
372	Intertidal (0-45 cm)	6/9/2020	1.44	observed(RTK)	1277046	190939	1277042	190942	5.41
373	Intertidal (0-45 cm)	6/10/2020	3.12	observed(RTK)	1276562	190728	1276569	190730	6.74
374	Intertidal (0-45 cm)	6/10/2020	3.87	observed(RTK)	1276576	190583	1276580	190582	3.83
375	Intertidal (0-45 cm)	6/10/2020	-1.27	observed(RTK)	1276679	190609	1276673	190612	6.36

Table A-2. Phase 1 Subsurface Sediment Core Coordinates

Location ID ^a	Location Type	Collection Date	Mudline Elevation (ft MLLW)	Elevation Type	Target Coordinates		Actual Coordinates		Distance From Target (ft)
					X	Y	X_coord	Y_coord	
376	Intertidal (0-45 cm)	6/18/2020	-2.66	observed(RTK)	1277046	190785	1277047	190782	3.39
377	Intertidal (0-45 cm)	6/9/2020	0.72	observed(RTK)	1277144	190834	1277139	190834	5.16
378	Intertidal (0-45 cm)	6/18/2020	1.16	observed(RTK)	1277188	190742	1277189	190739	3.63
379	Intertidal (0-45 cm)	6/9/2020	1.02	observed(RTK)	1277333	190612	1277341	190614	7.96
380	Subtidal (0-60 cm)	6/23/2020	-5.38	observed(RTK)	1277354	190522	1277364	190537	18.23
381	Subtidal (0-60 cm)	6/16/2020	-5.37	observed(RTK)	1277371	190426	1277368	190431	5.21
382	Intertidal (0-45 cm)	6/17/2020	6.22	observed(RTK)	1276992	190050	1276999	190071	22.50
383	Intertidal (0-45 cm)	6/23/2020	6.93	observed(RTK)	1277150	189888	1277152	189893	5.33
384	Intertidal (0-45 cm)	6/23/2020	7.33	observed(RTK)	1277231	189852	1277228	189853	3.16
385	Intertidal (0-45 cm)	6/17/2020	5.87	observed(RTK)	1277226	190006	1277225	190007	1.35
386	Intertidal (0-45 cm)	6/17/2020	3.47	observed(RTK)	1277405	190132	1277404	190131	1.78
387	Intertidal (0-45 cm)	6/16/2020	1.94	observed(RTK)	1277633	190135	1277635	190130	5.89
388	Intertidal (0-45 cm)	6/16/2020	6.66	observed(RTK)	1277514	190058	1277523	190058	8.23
389	Intertidal (0-45 cm)	6/16/2020	2.42	observed(RTK)	1277627	190001	1277629	190004	3.88
390	Intertidal (0-45 cm)	6/16/2020	1.86	observed(RTK)	1277558	189941	1277560	189937	5.02
391	Intertidal (0-45 cm)	6/16/2020	3.45	observed(RTK)	1277492	189847	1277495	189842	6.00
392	Subtidal (0-60 cm)	6/24/2020	-9.13	observed(RTK)	1277675	190427	1277672	190428	3.10
Segment 4									
400	Intertidal (0-45 cm)	6/22/2020	2.04	observed(RTK)	1278186	190432	1278191	190432	4.82
401	Intertidal (0-45 cm)	6/22/2020	1.34	observed(RTK)	1278219	190415	1278221	190413	3.25
406	Intertidal (0-45 cm)	6/22/2020	0.22	observed(RTK)	1278298	190362	1278304	190367	7.42
409	Intertidal (0-45 cm)	6/16/2020	0.69	observed(RTK)	1278135	190122	1278134	190120	2.23
410	Intertidal (0-45 cm)	6/22/2020	-5.85	observed(RTK)	1278372	190346	1278359	190331	20.12
411	Intertidal (0-45 cm)	6/22/2020	4.29	observed(RTK)	1278412	190348	1278412	190344	4.08
415	Intertidal (0-45 cm)	6/23/2020	6.17	observed(RTK)	1278474	190295	1278470	190288	8.11
416	Intertidal (0-45 cm)	6/17/2020	3.43	observed(RTK)	1278509	190247	1278509	190247	0.08
417	Intertidal (0-45 cm)	6/19/2020	3.51	observed(RTK)	1278533	190248	1278528	190240	9.38
418	Intertidal (0-45 cm)	6/17/2020	3.12	observed(RTK)	1278537	190221	1278534	190224	4.92
419	Intertidal (0-45 cm)	6/17/2020	4.39	observed(RTK)	1278565	190218	1278559	190211	8.42
421	Intertidal (0-45 cm)	6/16/2020	-1.41	observed(RTK)	1278413	189965	1278418	189968	5.77
423	Intertidal (0-45 cm)	6/17/2020	-0.45	observed(RTK)	1278622	190172	1278615	190166	9.41
424	Intertidal (0-45 cm)	6/17/2020	2.55	observed(RTK)	1278654	190105	1278646	190103	8.08
425	Intertidal (0-45 cm)	6/17/2020	-0.64	observed(RTK)	1278671	190051	1278673	190049	2.43
426	Intertidal (0-45 cm)	6/17/2020	1.55	observed(RTK)	1278712	190048	1278708	190049	4.23
427	Intertidal (0-45 cm)	6/17/2020	-1.26	observed(RTK)	1278725	189992	1278729	189996	5.22

^a **Bold** Location IDs indicate a reoccupy location

Sediment Chemistry Field Notes and Forms

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Dunwich AOCY Project no: PDI Phase I
 Date: 6/30/20 Weather: 50%, rainy
 Sampling Method: power grab (RSS) Crew: EP, AM, AE, RM

GRAB DATA		Location ID: <u>SS100</u>		
Latitude/Northing(Y): <u>19774.454</u>		Longitude/Easting(X): <u>1273309.392</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0749</u>	<u>5.3</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20 - SS100</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms, worm tubes</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown dark</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS103</u>		
Latitude/Northing(Y): <u>19766.984</u>		Longitude/Easting(X): <u>1273333.791</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0827</u>	<u>5.4</u>	<u>26</u>	<u>Y</u>	<u>crab shell</u>
SAMPLE DATA				
Sample ID: <u>LDW20 - SS103</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms, worm tubes,</u> <u>small amount of woody</u> <u>debris (twigs),</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown dark</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOCY (Ouwamish) Project no:
 Date: 6/5/20 Weather: SDs, cloudy
 Sampling Method: power grab Crew: KM, TH, EP, AM

GRAB DATA		Location ID: <u>SS101</u> km <u>SS101</u>		
Latitude/Northing(Y): <u>197674.749</u>		Longitude/Easting(X): <u>1273253.964</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1038</u>	<u>2.9</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS101</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <input checked="" type="checkbox"/> sand (F/M/C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive <input checked="" type="checkbox"/> brown gray black	<input checked="" type="checkbox"/> none slight moderate strong		H ₂ S petroleum other:
<u>slight sheen</u> <u>RPD not visible</u>				

GRAB DATA		Location ID: <u>SS102</u>		
Latitude/Northing(Y): <u>197715.26</u>		Longitude/Easting(X): <u>1273378.2</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1059</u>	<u>2.244</u>	<u>23</u>	<u>Y</u>	<u>field dup collected</u>
SAMPLE DATA		Sample ID: <u>LOW20-SS102, LOW20-SS102-FD</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <input checked="" type="checkbox"/> sand (F/M/C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive <input checked="" type="checkbox"/> brown gray black	<input checked="" type="checkbox"/> none slight moderate strong		H ₂ S petroleum other:
<u>organics: shells, worms</u> <u>RPD not visible</u>				

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no: PDI phase 1

Date: 6/30/20 Weather: 50s, rainy

Sampling Method: power grab (RSS) Crew: EP, AM, AF, RM

GRAB DATA		Location ID: <u>SS 104</u>		
Latitude/Northing(Y): <u>197658.651</u>		Longitude/Easting(X): <u>1273452.093</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0852</u>	<u>5.5</u>	<u>25</u>	<u>Y</u>	<u>large worm RM</u>
SAMPLE DATA		Sample ID: <u>LDW 20 - SS 104</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		<u>algae, large worms,</u> <u>RPD not visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown dark</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 107</u>		
Latitude/Northing(Y): <u>197450.254</u>		Longitude/Easting(X): <u>1273413.386</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0913</u>	<u>1.3</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW 20 - SS 107</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		<u>algae, RDP_{RM}</u> <u>RPD not visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: ADCY (Duwamish) Project no:
 Date: 6/10/20 Weather: 60s, mostly cloudy
 Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS106</u>		
Latitude/Northing(Y): <u>197425.291</u>			Longitude/Easting(X): <u>1273380.936</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1120</u>	<u>1.5</u>	<u>—</u>	<u>N</u>	<u>rock in jaws</u>
<u>1125</u>	<u>1.5</u>	<u>13</u>	<u>N</u>	<u>kept material from unwinnowed area but will try for another grab,</u>
<u>1137</u>	<u>1.3</u>	<u>11</u>	<u>Y</u>	<u>rock in jaws but side material unaffected and used for sample</u>
SAMPLE DATA		Sample ID: <u>LDWZO-SS106</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>organic matter, fresh on surface of grab</u> <u>RPD not visible</u>
gravel ^{KM}	drab olive	slight	petroleum	
sand <u>(F)(M)(C)</u>	brown	moderate	other:	
silt	<u>gray</u>	strong		
clay	black			

lots of riprap @ this location

GRAB DATA		Location ID: <u>SS121</u>		
Latitude/Northing(Y): <u>197127.808</u>			Longitude/Easting(X): <u>1273802.335</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1205</u>	<u>3.5</u>	<u>22</u>	<u>Y</u>	<u>collected extra jar for grain size lab QC</u>
SAMPLE DATA		Sample ID: <u>LDWZO-SS121</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>algae on top of grab</u> <u>worms, trace shell fragments</u> <u>RPD not visible</u> <u>extra km</u>
gravel	drab olive	slight	petroleum	
sand <u>(F)(M)(C)</u>	brown	moderate	other:	
silt	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no: PDI phase 1
 Date: 6/30/20 Weather: 50c, rainy
 Sampling Method: power grab (RSS) Crew: EP, AM, AE, RM

GRAB DATA		Location ID: <u>SS108</u>		
Latitude/Northing(Y): <u>197558.158</u>		Longitude/Easting(X): <u>1273554.64</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0935</u>	<u>5.7</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS108</u>		
Pre-homogenization analyses (circle): VOC Sulphides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms, worm tubes</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	<u>RPD not visible</u>
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS110</u>		
Latitude/Northing(Y): <u>197367.698</u>		Longitude/Easting(X): <u>1273472.462</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1000</u>	<u>1.0</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS110</u>		
Pre-homogenization analyses (circle): VOC Sulphides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>pebbles of orange,</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	<u>RPD not visible</u>
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOCY (Duwamish) Project no.:

Date: 6/5/20 Weather: 60s, mostly cloudy

Sampling Method: power grab Crew: KM, JH, EP, AM

GRAB DATA		Location ID: <u>SS109</u>		
Latitude/Northing(Y): <u>197485.144</u>			Longitude/Easting(X): <u>1273583.74</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1132</u>	<u>4.5</u>	<u>21</u>	<u>Y</u>	<u>field dup collected</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS109, LDW20-SS109-FD</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		<u>wood debris & other</u> <u>organic debris (shells, sticks)</u> <u>RPD not visible</u> <u>@no photo of homogenized sediment</u>
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
sand (F M <u>C</u>)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS113</u>		
Latitude/Northing(Y): <u>197312.75</u>			Longitude/Easting(X): <u>1273589.506</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1220</u>	<u>0.7</u>	<u>22</u>	<u>N</u>	<u>partially winnowed; will attempt again + keep material from unwinnowed area</u> <u>washed out</u>
<u>1236</u>	<u>1.3</u>	<u>—</u>	<u>N</u>	
<u>1242</u>	<u>2.0</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS113</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		<u>RPD not visible</u>
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwamish AOC4 Project no: PD1 Phase 1
 Date: 6/30/20 Weather: SOs, rainy
 Sampling Method: power grab (RSS) Crew: EP, AM, AE

GRAB DATA		Location ID: <u>SS111</u>		
Latitude/Northing(Y): <u>197392.995</u>		Longitude/Easting(X): <u>1273582.468</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1019</u>	<u>5.1</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS111</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <u>sand</u> (F M C) <u>silt</u> clay	<u>brown surface</u> drab olive <u>brown</u> dark gray black	<u>none</u> slight moderate strong H ₂ S petroleum other:		<u>algae, trace shell fragments,</u> <u>RPD not visible</u>

GRAB DATA		Location ID: <u>SS112</u>		
Latitude/Northing(Y): <u>197285.193</u>		Longitude/Easting(X): <u>1273534.914</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1035</u>	<u>1.0</u>	<u>25</u>	<u>N</u>	<u>sloped surface, winnowing due to debris in jaws</u>
<u>1040</u>	<u>1.2</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS112</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <u>sand</u> (F M C) <u>silt</u> clay	<u>brown surface</u> drab olive <u>brown</u> dark gray black	<u>none</u> slight moderate strong H ₂ S petroleum other:		<u>RPD not visible</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: ADCY (Dynamish) Project no.:
 Date: 6/11/20 Weather: 50s, rain
 Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS113</u>		
Latitude/Northing(Y): <u>197312.75</u>			Longitude/Easting(X): <u>1273589.506</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0916</u>	<u>4.0</u>	<u>18</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>L0W20-SS113</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		<u>algae</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F) (M) (C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS146</u>		
Latitude/Northing(Y): <u>196490.857</u>			Longitude/Easting(X): <u>1274400.168</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1023</u>	<u>1.6</u>	<u>—</u>	<u>N</u>	<u>under-penetrated (<11cm)</u>
<u>1030</u>	<u>1.6</u>	<u>14</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>L0W20-SS146</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	brown surface	<u>none</u>		<u>worms</u> <u>trash + riprap in grab surface</u> <u>RPD not visible</u>
<u>gravel</u>	drab olive	slight	petroleum	
<u>sand</u> (F) (M) (C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no: PDI Phase1

Date: 6/30/20 Weather: 50s, cloudy

Sampling Method: power grab (RSS) Crew: EP, AM, AE, RM

GRAB DATA		Location ID: <u>SS114</u>		
Latitude/Northing(Y): <u>197427.308</u>		Longitude/Easting(X): <u>1273760.158</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1059</u>	<u>6.3</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS114</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>large flat worms,</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u> dark	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS115</u>		
Latitude/Northing(Y): <u>197340.964</u>		Longitude/Easting(X): <u>1273766.070</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1121</u>	<u>7.0</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS115</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>algae, worms, shells</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u> dark	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 Duwamish Project no: PDI Sediment sampling (Phase 1)
 Date: 6/30/20 Weather: 50s, cloudy
 Sampling Method: Pneumatic grab sampler or hand-collected Crew: EP, AM, AE, RM
RSS

GRAB DATA		Location ID: SS <u>116</u>		
Latitude/Northing(Y): <u>197245.699</u>		Longitude/Easting(X): <u>1273630.107</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1212</u>	<u>2.7</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: LDW20-SS <u>116</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		Sample depth: <u>0-10</u> cm (or other: _____ cm) RPD: <u>not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: SS <u>118</u>		
Latitude/Northing(Y): <u>197244.747</u>		Longitude/Easting(X): <u>1273789.917</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1232</u>	<u>7.4</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: LDW20-SS <u>118</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		Sample depth: <u>0-10</u> cm (or other: _____ cm) RPD: <u>not visible</u> <u>coarse woody debris, worms</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: NOCY (Duwamish) Project no:
 Date: 6/5/20 Weather: W's, mostly cloudy
 Sampling Method: power grab Crew: KM, TH, CP, AM

GRAB DATA		Location ID: <u>SS117</u>		
Latitude/Northing(Y): <u>197346.787</u>			Longitude/Easting(X): <u>1273795.08</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1329</u>	<u>4.8</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS117</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
cobble	<u>brown surface</u>	<u>none</u> Km	petroleum	<u>slight organic / sea life - type odor</u> <u>RPD not visible</u>
gravel	<u>drab olive</u>	<u>slight</u>	other:	
<u>sand (F M C)</u>	<u>brown</u>	moderate		
<u>silt</u>	<u>gray</u>	strong		
clay	<u>black</u>			

GRAB DATA		Location ID: <u>SS169</u>		
Latitude/Northing(Y): <u>195856.302</u>			Longitude/Easting(X): <u>1275167.809</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1402</u>	<u>1.7</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS169</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
cobble	<u>brown surface</u>	<u>none</u>	petroleum	<u>No debris</u> <u>RPD not visible</u>
gravel	<u>drab olive</u>	<u>slight</u>	other:	
<u>sand (F M C)</u>	<u>brown</u>	moderate		
<u>silt</u>	<u>gray</u>	strong		
clay	<u>black</u>			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOC4 Duwamish Project no: PDI Sediment sampling (Phase 1)

Date: 6/30/20 Weather: 60s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected Crew: EP, AM, AE, RM
RSS

GRAB DATA		Location ID: SS 419 <u>RM</u> <u>119</u>		
Latitude/Northing(Y): <u>197281.833</u>		Longitude/Easting(X): <u>1273670.031</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1251</u>	<u>6.9</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>119</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H ₂ S petroleum other:	Comments:
cobble <u>gravel</u> sand (F M C) <u>silt</u> clay	<u>brown surface</u> drab olive <u>brown</u> dark gray black	<u>none</u> slight moderate strong		Sample depth <u>0-10</u> cm (or other: _____ cm) RPD: <u>not visible</u> <u>2-3 cm silt layer, gravel below</u> <u>some cobble on surface</u>

GRAB DATA		Location ID: SS <u>120</u>		
Latitude/Northing(Y): <u>197122.426</u>		Longitude/Easting(X): <u>1273739.662</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1313</u>	<u>2.8</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>120</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H ₂ S petroleum other:	Comments:
cobble gravel <u>sand</u> (F M C) <u>silt</u> clay	brown surface drab olive <u>brown</u> gray black	<u>none</u> slight moderate strong		Sample depth <u>0-10</u> cm (or other: _____ cm) RPD: <u>not visible</u> <u>organic material (leaves, twigs)</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOCY (Oowamish) Project no:
 Date: 6/10/20 Weather: 60s, partly sunny
 Sampling Method: power grab Crew: GP, AM, RM, KM

GRAB DATA		Location ID: <u>SS123</u>		
Latitude/Northing(Y): <u>197 204.854</u>			Longitude/Easting(X): <u>127 3925.597</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1226</u>	<u>5.9</u>	<u>24</u>	<u>Y</u>	<u>field duplicate</u>
SAMPLE DATA		Sample ID: <u>LOW20-SS123</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble <input checked="" type="checkbox"/> gravel <u>trace</u> <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive brown <input checked="" type="checkbox"/> gray black	<input checked="" type="checkbox"/> none slight moderate strong	H ₂ S petroleum other:	<u>algae on grab surface</u> <u>worms, worm tubes, shell</u> <u>fragments, leaf debris</u> <u>RPD not visible</u>

GRAB DATA		Location ID: <u>SS125</u>		
Latitude/Northing(Y): <u>197 084.921</u>			Longitude/Easting(X): <u>127 3945.191</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1252</u>	<u>5.4</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS125</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive brown <input checked="" type="checkbox"/> gray black	<input checked="" type="checkbox"/> none slight moderate strong	H ₂ S petroleum other:	<u>algae on surface</u> <u>shell fragments, worms,</u> <u>leaf debris</u> <u>RPD not visible</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC4 Duwanish Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20 Weather: 60s, partly sunny

Sampling Method: Pneumatic grab samples or hand-collected Crew: EP, AM, AF, EM
RSS

GRAB DATA		Location ID: SS <u>124</u>		
Latitude/Northing(Y): <u>197014.434</u>		Longitude/Easting(X): <u>1273835.148</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1335</u>	<u>2.4</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: LDW20-SS <u>124</u>				
Pre-homogenization analyses (circle): VOC <input type="checkbox"/> Sulfides <input type="checkbox"/> Ammonia <input type="checkbox"/> AVS/SEM <input type="checkbox"/> TPH-P <input type="checkbox"/> Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive brown <input checked="" type="checkbox"/> gray dark black	<input checked="" type="checkbox"/> none H ₂ S slight petroleum moderate strong other:		Sample depth: <u>0-10</u> cm (or other: _____ cm) RPD: <u>not visible</u> <u>organic matter (leaves + twigs),</u> <u>some garbage debris</u>

GRAB DATA		Location ID: SS <u>126</u>		
Latitude/Northing(Y): <u>197147.401</u>		Longitude/Easting(X): <u>1273996.209</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1353</u>	<u>7.6</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: LDW20-SS <u>126</u>				
Pre-homogenization analyses (circle): VOC <input type="checkbox"/> Sulfides <input type="checkbox"/> Ammonia <input type="checkbox"/> AVS/SEM <input type="checkbox"/> TPH-P <input type="checkbox"/> Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble <input checked="" type="checkbox"/> gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface <u>light brown</u> drab olive <input checked="" type="checkbox"/> brown gray black	<input checked="" type="checkbox"/> none H ₂ S slight petroleum moderate strong other:		Sample depth: <u>0-10</u> cm (or other: _____ cm) RPD: <u>not visible</u> <u>worms</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

Project Name: AOC4 Duwamish Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20 Weather: 60s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected Crew: EP, AM, AE, RM
RSS

GRAB DATA		Location ID: SS <u>129</u>		
Latitude/Northing(Y): <u>196992.593</u>		Longitude/Easting(X): <u>1274067.518</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1410</u>	<u>7.8</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>129</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm)
gravel	drab olive	slight	petroleum	RPD: <u>not visible</u>
<u>sand</u> (F M C)	<u>brown</u> dark	moderate	other:	<u>worms</u>
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: SS		
Latitude/Northing(Y):		Longitude/Easting(X):		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: LDW20-SS		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth: 0-10 cm (or other: _____ cm)
gravel	drab olive	slight	petroleum	RPD: <u>6/30/20</u>
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOC4 (Dudamish) Project no:

Date: 6/10/20 Weather: 60s, partly sunny

Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: SS127 ^{KM} <u>SS130</u>		
Latitude/Northing(Y): <u>197020.077</u>		Longitude/Easting(X): <u>1274139.16</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1328</u>	<u>5.1</u>	<u>21</u>	<u>Y</u>	<u>field duplicate</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS127</u> ^{KM} <u>SS130</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F)(M)(C) silt clay	<u>brown surface</u> drab olive brown <u>gray</u> dark black	<u>none</u> slight moderate strong	H ₂ S petroleum other:	<u>algae, shell fragments,</u> <u>WORMS</u> <u>RPD not visible</u> <u>*field duplicate</u>

GRAB DATA		Location ID: <u>SS135</u>		
Latitude/Northing(Y): <u>196840.745</u>		Longitude/Easting(X): <u>1274304.746</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1358</u>	<u>5.5</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS135</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F)(M)(C) silt clay	<u>brown surface</u> drab olive brown <u>gray</u> black	<u>none</u> slight moderate strong	H ₂ S petroleum other:	<u>algae, wood debris, worms</u> <u>RPD not visible</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no.: _____

Date: 6/25/20 Weather: 70s, Sunny

Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS131</u>		
Latitude/Northing(Y): <u>196882.911</u>		Longitude/Easting(X): <u>1274107.703</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1344</u>	<u>2.3</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS131</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<input checked="" type="checkbox"/> cobble <u>trace</u>	<input checked="" type="checkbox"/> brown surface	<input checked="" type="checkbox"/> none	H ₂ S	<u>wood debris / sticks</u>
<input checked="" type="checkbox"/> gravel <u>trace</u>	drab olive	slight	petroleum	
<input checked="" type="checkbox"/> sand (F/M/C)	brown	moderate	other:	
<input checked="" type="checkbox"/> silt	gray	strong		
<input type="checkbox"/> clay	black			

GRAB DATA		Location ID: <u>SS132</u>		
Latitude/Northing(Y): <u>196936.326</u>		Longitude/Easting(X): <u>1274213.042</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1403</u>	<u>4.6</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS132</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<input type="checkbox"/> cobble	<input checked="" type="checkbox"/> brown surface	<input checked="" type="checkbox"/> none	H ₂ S	<u>RPD not visible</u>
<input checked="" type="checkbox"/> gravel <u>trace</u>	drab olive	slight	petroleum	
<input checked="" type="checkbox"/> sand (F/M/C)	brown	moderate	other:	
<input checked="" type="checkbox"/> silt	<input checked="" type="checkbox"/> gray <u>dark</u>	strong		
<input type="checkbox"/> clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOCY (Duwamish) Project no.: _____

Date: 6/11/20 Weather: SOS, rain

Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS133</u>		
Latitude/Northing(Y): <u>196821.907</u>			Longitude/Easting(X): <u>1274128.33</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1142</u>	<u>2.6</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS133</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <u>sand (F/M/C)</u> <u>silt</u> clay	<u>brown surface</u> drab olive <u>brown</u> gray black	<u>none</u> slight moderate strong H ₂ S petroleum other:		<u>algae, leaf debris</u> <u>RPD not visible</u>

GRAB DATA		Location ID: <u>SS140</u>		
Latitude/Northing(Y): <u>196646.573</u>			Longitude/Easting(X): <u>1274334.01</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1250</u>	<u>2.5</u>	<u>14</u>	<u>Y</u>	<u>extra jar collected for grain size lab ac</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS140</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F/M/C) <u>silt</u> clay	<u>brown surface</u> drab olive <u>brown</u> gray black	<u>none</u> slight moderate strong H ₂ S petroleum other:		<u>pockets of sheen, algae,</u> <u>pockets of orange</u> <u>RPD not visible</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10 cm)

Project Name: AOC4 - DUWOMISM Project no.: PDI Sediment sampling (Phase 1)
 Date: 6/30/20 Weather: 60s, partly cloudy
 Sampling Method: Pneumatic grab sampler or hand-collected Crew: PT, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: SS <u>134</u>		
Latitude/Northing(Y): <u>196748.36</u>		Longitude/Easting(X): <u>127496.85</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1418</u>	<u>14.41</u>	<u>26.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>134</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10</u> cm (or other: _____ cm) RPD: <u>Not visible</u> <u>worm for worm tubes and algae.</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

WFO
6.30.20

GRAB DATA		Location ID: SS		
Latitude/Northing(Y):		Longitude/Easting(X):		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: LDW20-SS		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth: 0-10 cm (or other: _____ cm) RPD:
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10 cm)

Project Name: AOC4 - DUWAMISH Project no: PDI Sediment sampling (Phase 1)

Date: 6/30/20 Weather: 60s, partly cloudy

Sampling Method: Pneumatic grab sampler or hand-collected GRAVITY Crew: PJ, MD, TD, CD

GRAB DATA		Location ID: SS 137		
Latitude/Northing(Y): 196681.19		Longitude/Easting(X): 1274230.71		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1407	9.71	12	Y	
SAMPLE DATA		Sample ID: LDW20-SS 137		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble <u>gravel</u> sand (F M C) <u>silt</u> clay	brown surface drab olive <u>brown</u> <u>gray</u> black	<u>none</u> slight moderate strong H ₂ S petroleum other:		Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: None Visible Trace plant debris, brick debris, Shell fragments

CD 06.30.20

GRAB DATA		Location ID: SS		
Latitude/Northing(Y):		Longitude/Easting(X):		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: LDW20-SS		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F M C) silt clay	brown surface drab olive brown gray black	<u>none</u> slight moderate strong H ₂ S petroleum other:		Sample depth: 0-10 cm (or other: _____ cm) RPD: Trace plant debris, brick debris, Shell fr

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 (Duvamish) Project no: _____
 Date: 6/11/20 Weather: SOs, rain
 Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS139</u>		
Latitude/Northing(Y): <u>196617.74</u>			Longitude/Easting(X): <u>1274281.119</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1053</u>	<u>1.2</u>	<u>13</u>	<u>Y</u>	<u>collected extra jar for grain size lab</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS139</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F M C) silt clay	brown surface drab olive brown gray black	none slight moderate strong		H ₂ S petroleum other: algae & trash on grab surface shell fragments RPD not visible

GRAB DATA		Location ID: <u>SS127</u>		
Latitude/Northing(Y): <u>196940.092</u>			Longitude/Easting(X): <u>1273913.098</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1120</u>	<u>2.0</u>	<u>20</u>	<u>Y</u>	<u>collected field duplicate</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS127</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F M C) silt clay	brown surface drab olive brown gray black	none slight moderate strong		H ₂ S petroleum other: algae, organic matter (leaves, sticks) RPD not visible

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DUWOMISSM Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20 Weather: 60s, partly cloudy

Sampling Method: Rheumatic grab sampler or hand-collected Crew: PS, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: SS 141 (Re-occupy)		
Latitude/Northing(Y): 196682.09		Longitude/Easting(X): 1274374.62		
Grab time	Water depth (m or f)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1347	23.20	34.5	Y	
SAMPLE DATA				
Sample ID: LDW20-SS 141				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth 0-10 cm (or other: _____ cm) RPD: Not visible
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: SS 138		
Latitude/Northing(Y): 196780.94		Longitude/Easting(X): 1274367.36		
Grab time	Water depth (m or f)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1355	28.55	19.0	Y	(No photo taken for homogenized sediment)
SAMPLE DATA				
Sample ID: LDW20-SS 138				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth 0-10 cm (or other: _____ cm) RPD: Not visible lots of worms, shell fragments, and plant material
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOLY (Orwamish) Project no: —
 Date: 6/11/20 Weather: 50s, cloudy
 Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS 142</u>		
Latitude/Northing(Y): <u>196707.781</u>			Longitude/Easting(X): <u>1274449.513</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1316</u>	<u>6.8</u>	<u>22</u>	<u>Y</u>	<u>extra jar collected for grain size lab</u>
SAMPLE DATA				
Sample ID: <u>LDW20-SS142</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H₂S</u>	<u>shell fragments, leafy organic matter</u> <u>RPD not visible</u>
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	<u>black</u>			

GRAB DATA		Location ID: <u>SS 144</u>		
Latitude/Northing(Y): <u>196588.86</u>			Longitude/Easting(X): <u>1274454.698</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1336</u>	<u>3.0</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS144</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H₂S</u>	<u>shell fragments, pockets of silt, pockets of orange</u> <u>RPD not visible</u>
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	<u>black</u>			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DUWOMISH Project no: PDI Sediment sampling (Phase 1)

Date: 6/30/20 Weather: 60s, partly sunny

Sampling Method: Pneumatic grab sampler or hand-collected Crew: PS, MB, TA, CD

GRAVIM

GRAB DATA		Location ID: SS <u>145</u>		
Latitude/Northing(Y): <u>196553.48</u>		Longitude/Easting(X): <u>1274419.37</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1317</u>	<u>11.52</u>	<u>18.0</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>145</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble <u>gravel</u> sand (F M C) <u>silt</u> clay	<u>brown surface</u> drab olive <u>brown</u> gray black	<u>none</u> slight moderate strong H ₂ S petroleum other:		Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>~2.5 cm</u> <u>Very oxidized, likely brick material (reddish). lots of algae.</u>

GRAB DATA		Location ID: SS <u>143</u>		
Latitude/Northing(Y): <u>196543.93</u>		Longitude/Easting(X): <u>1274350.62</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1331</u>	<u>5.55</u>	<u>0</u>	<u>N</u>	<u>Washed out. Rocks.</u>
<u>1333</u>	<u>5.97</u>	<u>13.0</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>143</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble <u>gravel</u> sand (F M C) <u>silt</u> <u>trace</u> clay	<u>brown surface</u> drab olive <u>brown</u> gray black	<u>none</u> slight moderate strong H ₂ S petroleum other:		Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None visible</u> <u>Broken glass and algae</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOCY (Dunamish) Project no: —

Date: 6/11/20 Weather: 60s, cloudy

Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS 148</u>		
Latitude/Northing(Y): <u>196519.562</u>			Longitude/Easting(X): <u>1279588.174</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1358</u>	<u>4.3</u>	<u>22.27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 148</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>woody debris, pockets of orange RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			

GRAB DATA		Location ID:		
Latitude/Northing(Y):			Longitude/Easting(X):	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID:		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOCY (Duwamish) Project no.: _____
 Date: 6/12/20 Weather: 50s, cloudy with rain showers
 Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS150</u>		
Latitude/Northing(Y): <u>196536.319</u>		Longitude/Easting(X): <u>1274714.559</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1128</u>	<u>8.2</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS150</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	<u>leaf debris, worms</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	<u>brown</u>	moderate	other:	
<u>silt trace</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 155</u>		
Latitude/Northing(Y): <u>196334.795</u>		Longitude/Easting(X): <u>1274814.533</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1227</u>	<u>5.5</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS 155</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>shell fragments, worm</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DOWEMISH

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 60s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PS, MP, TP, CD

GRAVIM

GRAB DATA		Location ID: SS 152		
Latitude/Northing(Y): 196335.65		Longitude/Easting(X): 1274590.60		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1242	4.69	0	N	Rock in the jaws.
1244	4.56	10	N	Cobble in the jaws
1249	4.43	11.5	Y	
SAMPLE DATA		Sample ID: LDW20-SS 152		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F/M/C) silt clay	brown surface drab olive brown gray (bank) black	none slight moderate strong	H ₂ S petroleum other:	Sample depth: 0-10 cm (or other: _____ cm) RPD: not visible plant debris, brick fragments, worms

GRAB DATA		Location ID: SS 147		
Latitude/Northing(Y): 196463.27		Longitude/Easting(X): 1274459.28		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1308	9.35	15	Y	
SAMPLE DATA		Sample ID: LDW20-SS 147		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel lots sand (F/M/C) silt clay	brown surface drab olive brown gray black	none slight moderate strong	H ₂ S petroleum other:	Sample depth: 0-10 cm (or other: _____ cm) RPD: None visible Brick fragments

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10cm)

Project Name: AOC4 - DUWCM3N

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PJ, MD, TD, CD

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GRAB DATA		Location ID: SS 153		
Latitude/Northing(Y): 196418.98		Longitude/Easting(X): 1274717.36		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1217	22.84	28.0	Y	
SAMPLE DATA		Sample ID: LDW20-SS 153		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth <u>0-10 cm</u> (or other: _____ cm) RPD: Not visible Worms and organic material, Plant material
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: SS 149		
Latitude/Northing(Y): 196597.83		Longitude/Easting(X): 1274654.62		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1230	27.99	23.0	Y	
SAMPLE DATA		Sample ID: LDW20-SS 149		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	Sample depth <u>0-10 cm</u> (or other: _____ cm) RPD: Not visible Worms
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
silt	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 (Duwamish) Project no.: _____

Date: 6/5/20 Weather: SOS, mostly cloudy

Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS154</u>		
Latitude/Northing(Y): <u>196265.601</u>		Longitude/Easting(X): <u>1274715.198</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0810</u>	<u>2.3</u>	<u>29</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS154</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS165</u>		
Latitude/Northing(Y): <u>195953.861</u>		Longitude/Easting(X): <u>1275085.098</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0847</u>	<u>2.6</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS165</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>sheen</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOCY (Duvamish) Project no: —

Date: 6/12/20 Weather: 50s, rain

Sampling Method: power grab Crew: EP, AM, KM, RM

GRAB DATA		Location ID: <u>SS 156</u>		
Latitude/Northing(Y): <u>196315.723</u>		Longitude/Easting(X): <u>1274911.275</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1245</u>	<u>6.5</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW 20-SS 156</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms, trace shell fragments</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 162</u>		
Latitude/Northing(Y): <u>196144.912</u>		Longitude/Easting(X): <u>1275115.367</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1301</u>	<u>6.5</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW 20-SS 162</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms, worm tubes,</u> <u>shell fragments, woody debris</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: A004 (Downwash)

Project no:

Date: 6/5/20

Weather: SSs, misty cloudy

Sampling Method: power grab

Crew: E. Parker, A. Muth, J. Hearsey, K. McPeak, T. Do

GRAB DATA		Location ID: <u>SS-159</u>		
Latitude/Northing(Y): <u>196056.272</u>			Longitude/Easting(X): <u>1274858.416</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0644</u>	<u>3.3</u>	<u>14</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS159</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>organic matter</u> <u>RPD not visible</u> <u>* picture of grab is mislabeled</u> <u>SS159 instead of SS159</u>
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
<u>sand (F M C) fine</u>	<u>brown</u>	<u>moderate</u>	other:	
<u>silt</u>	<u>gray</u>	<u>strong</u>		
<u>clay</u>	<u>black</u>			

GRAB DATA		Location ID: <u>SS164</u>		
Latitude/Northing(Y): <u>195923.546</u>			Longitude/Easting(X): <u>1275024.418</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0708</u>	<u>3.3</u>	<u>30</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS164</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>organic matter: worms</u> <u>pockets of sheen</u> <u>RPD not visible</u>
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	<u>moderate</u>	other:	
<u>silt</u>	<u>gray</u>	<u>strong</u>		
<u>clay</u>	<u>black</u>			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no.: _____
 Date: 6/16/20 Weather: 60s, cloudy
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS 160</u>		
Latitude/Northing(Y): <u>196162.417</u>			Longitude/Easting(X): <u>1274999.088</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1225</u>	<u>4.8</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS160</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>trace organic debris (leaf, sticks)</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt trace</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 204</u>		
Latitude/Northing(Y): <u>195784.32</u>			Longitude/Easting(X): <u>1275466.481</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1243</u>	<u>5.6</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS204</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	<u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt trace</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DUWOMISH

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PS, MB, TD, CD

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GRAB DATA		Location ID: SS <u>163</u>		
Latitude/Northing(Y): <u>196077.16</u>		Longitude/Easting(X): <u>1275115.48</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1157</u>	<u>19.75</u>	<u>22.0</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>163</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None</u> <u>Trace leaf litter and worms.</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: SS <u>157</u>		
Latitude/Northing(Y): <u>196232.31</u>		Longitude/Easting(X): <u>1274904.61</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1206</u>	<u>22.08</u>	<u>25.0</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>157</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None</u> <u>Shell fragments and worms.</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOCY (OUWANISH) Project no.: -
 Date: 6/12/20 Weather: SOs, rainy
 Sampling Method: RM power grab Crew: EP, AM, KM, RM

GRAB DATA		Location ID: <u>SS 166</u>		
Latitude/Northing(Y): <u>195997.143</u>			Longitude/Easting(X): <u>1275184.284</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1323</u>	<u>4.5</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW 20 - SS 166</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms, trace pockets of sheen</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID:		
Latitude/Northing(Y):			Longitude/Easting(X):	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID:		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	<u>6/12/20</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (070cm)

Project Name: AOCY (Duwanish)

Project no:

Date: 6/5/20

Weather: SOS, mostly cloudy

Sampling Method: power grab

Crew: EP, AM, JH, KM, JDM

GRAB DATA		Location ID: <u>SS167</u>		
Latitude/Northing(Y): <u>195877.946</u>		Longitude/Easting(X): <u>1275063.221</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0723</u>	<u>3.2</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS167</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	<u>slight</u>	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS158</u>		
Latitude/Northing(Y): <u>196131.721</u>		Longitude/Easting(X): <u>1274879.389</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0742</u>	<u>3.0</u>	<u>31</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS158</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>organics: plants sheen RPD not visible</u>
gravel	drab olive	<u>slight</u>	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOCY (Duvamish) Project no.:

Date: 6/5/20 Weather: 50s, mostly cloudy

Sampling Method: power grab Crew: CP, AM, JH, KM

GRAB DATA		Location ID: <u>SS168</u>		
Latitude/Northing(Y): <u>195893.319</u>		Longitude/Easting(X): <u>1275136.316</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0900</u>	<u>1.3</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS168</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>Shren</u> <u>organics: plant debris</u> <u>R/D not visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS200</u>		
Latitude/Northing(Y): <u>195853.985</u>		Longitude/Easting(X): <u>1275250.841</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0913</u>	<u>1.5</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS200</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>Organics - amphipods</u> <u>R/D not visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt trace</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOLY (Downwash) Project no.:

Date: 6/15/20 Weather: SOS, rain

Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS203</u>		
Latitude/Northing(Y): <u>195832.224</u>		Longitude/Easting(X): <u>1275485.77</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0953</u>	<u>6.5</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS203</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	<u>Worms</u>
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS341</u>		
Latitude/Northing(Y): <u>192561.114</u>		Longitude/Easting(X): <u>1276917.362</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1048</u>	<u>2.0</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS341</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY Project no: _____

Date: 6/24/20 Weather: 60s, cloudy

Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS205</u>		
Latitude/Northing(Y): <u>195690.348</u>		Longitude/Easting(X): <u>1275560.897</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1257</u>	<u>3.4</u>	<u>—</u>	<u>N</u>	<u>winnowed + heavily sloped</u>
<u>1301</u>	<u>3.4</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS205</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	<u>Clams and mussels, worms</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
silt	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS207</u>		
Latitude/Northing(Y): <u>195593.735</u>		Longitude/Easting(X): <u>1275643.328</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1319</u>	<u>3.5</u>	<u>20</u>	<u>Y</u>	<u>depth recorded @ 1332</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS207</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>Worms + shells</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
silt	<u>gray</u> <u>drab</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish A004

Project no: _____

Date: 6/24/20

Weather: Coos, cloudy

Sampling Method: pinner grab

Crew: CP, AM, JH, KM

GRAB DATA		Location ID: <u>SS209</u>		
Latitude/Northing(Y): <u>195503.408</u>			Longitude/Easting(X): <u>1275787.314</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1340</u>	<u>3.8</u>	<u>18</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS209</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		<u>RPD not visible</u> <u>LDW20-SS209</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u> dark	strong		
clay	black			

GRAB DATA		Location ID: <u>SS213</u>		
Latitude/Northing(Y): <u>195225.739</u>			Longitude/Easting(X): <u>1275863.234</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1359</u>	<u>3.7</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS213</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	none	<u>H₂S</u>	<u>worms (top)</u> <u>RPD < 1cm</u> <u>surface sheen on grab -</u> <u>multicolored, surface only</u>
<u>gravel</u>	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u> dark	<u>strong</u>		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY Project no.: _____
 Date: 6/16/20 Weather: 60s, cloudy
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS 210</u>		
Latitude/Northing(Y): <u>195473.177</u>			Longitude/Easting(X): <u>1275704.234</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1303</u>	<u>6.1</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW 20 - SS 210</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt + trace clay	<input checked="" type="checkbox"/> brown surface drab olive <input checked="" type="checkbox"/> brown <input checked="" type="checkbox"/> gray black	<input checked="" type="checkbox"/> none slight moderate strong		H ₂ S petroleum other: shell fragments, worms, woody debris no RDP or RPD visible

GRAB DATA		Location ID: _____		
Latitude/Northing(Y): _____			Longitude/Easting(X): _____	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: _____		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F M C) silt clay	brown surface drab olive brown gray black	none slight moderate strong		H ₂ S petroleum other: <i>[Signature]</i> <u>6/16/20</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOCY (OUWAMISH) Project no:
 Date: 6/15/20 Weather: 50s, rain
 Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS212</u>		
Latitude/Northing(Y): <u>195323.235</u>		Longitude/Easting(X): <u>1275762.596</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0902</u>	<u>4.9</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS212</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms, shell fragments</u> <u>KPD not visible</u> <u>*No picture of homogenized sediment</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS202</u>		
Latitude/Northing(Y): <u>195921.881</u>		Longitude/Easting(X): <u>1275387.186</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0930</u>	<u>6.4</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS202</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms</u> <u>KPD not visible</u>
<u>gravel</u>	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
<u>silt trace</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOCY (Dunhamish) Project no:

Date: 6/15/20 Weather: 50s, rain

Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>LDW20-SS215</u>		
Latitude/Northing(Y): <u>195055.265</u>		Longitude/Easting(X): <u>1275691.121</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0800</u>	<u>0.12</u>	<u>-</u>	<u>N</u>	<u>under-penetrated</u>
<u>0812</u>	<u>0.12</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS215</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<u>cobble</u> <u>on top</u>	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
<u>gravel</u>	<u>drab olive</u> <i>(whole grab is brown)</i>	<u>slight</u>	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	<u>moderate</u>	other:	
silt	<u>gray</u>	<u>strong</u>		
clay	<u>black</u>			

GRAB DATA		Location ID: <u>SS214</u>		
Latitude/Northing(Y): <u>195180.44</u>		Longitude/Easting(X): <u>1275725.165</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0841</u>	<u>3.1</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS214</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u> <u>worms, worm tubes</u>
<u>gravel</u>	<u>drab olive</u>	<u>slight</u>	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	<u>moderate</u>	other:	
<u>silt</u>	<u>gray</u>	<u>strong</u>		
clay	<u>black</u>			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwanish AOCY Project no: _____

Date: 6/23/20 Weather: 70s, Sunny

Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS216</u>		
Latitude/Northing(Y): <u>127 5782.162</u>			Longitude/Easting(X): <u>195087.72</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1259</u>	<u>2.7</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS216</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>APP not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> dark	strong		
clay	black			

GRAB DATA		Location ID: <u>SS225</u>		
Latitude/Northing(Y): <u>1275903.86</u>			Longitude/Easting(X): <u>194636.275</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1318</u>	<u>3.0</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS225</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>APP not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY

Project no.: _____

Date: 6/15/20

Weather: 50s, cloudy

Sampling Method: EP, AM, JH, KML, KM
power grab

Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS219</u>		
Latitude/Northing(Y): <u>194973.083</u>		Longitude/Easting(X): <u>1275807.84</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1343</u>	<u>5.6</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS219</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u> <u>worms</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS220</u>		
Latitude/Northing(Y): <u>194926.836</u>		Longitude/Easting(X): <u>1275941.876</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1406</u>	<u>6.5</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS220</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms, leaf + wood debris</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10cm)

Project Name: AOC4 - DUWOMISH

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PJ, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: <u>SS 221</u>		
Latitude/Northing(Y): <u>19475.39</u>		Longitude/Easting(X): <u>1275767.92</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1133</u>	<u>5.06</u>	<u>14.0</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 221</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble <u>gravel</u> sand (F M C) <u>silt</u> Trace clay	brown surface drab olive <u>brown</u> gray black	<u>none</u> slight moderate strong	petroleum other:	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None</u> <u>Algae</u>

GRAB DATA		Location ID: <u>SS 201</u>		
Latitude/Northing(Y): <u>195877.82</u>		Longitude/Easting(X): <u>1275339.04</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1148</u>	<u>19.00</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 201</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble gravel sand (F M C) <u>silt</u> Trace clay	brown surface drab olive brown <u>gray</u> black	<u>none</u> slight moderate strong	petroleum other:	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None</u> <u>Worm tube and leaf litter.</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4

Project no.: _____

Date: 6/19/20

Weather: 70s, partly sunny

Sampling Method: power grab

Crew: EP, KG, JH, RU

GRAB DATA		Location ID: <u>SS 223</u>		
Latitude/Northing(Y): <u>194783.731</u>		Longitude/Easting(X): <u>1275972.824</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1221</u>	<u>4.4</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS223</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>shell fragments,</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 226</u>		
Latitude/Northing(Y): <u>194681.344</u>		Longitude/Easting(X): <u>1276019.466</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1236</u>	<u>4.9m</u>	<u>4.4</u>	<u>N</u>	<u>large piece of woody debris caught in jaws disrupt surface</u>
<u>1246</u>	<u>4.3</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS226</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: _____				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms,</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no.: _____
 Date: 8/19/20 Weather: 50s, sunny
 Sampling Method: power grab Crew: EP, KG, JH, RM

GRAB DATA		Location ID: <u>SS 224</u>		
Latitude/Northing(Y): <u>194660.145</u>		Longitude/Easting(X): <u>1275822.92</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0728</u>	<u>2.3</u>	<u>16</u>	<u>Y</u>	<u>stick poking out of grab</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS224</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<input type="checkbox"/> cobble <input checked="" type="checkbox"/> gravel <input checked="" type="checkbox"/> sand (F M C) <input type="checkbox"/> silt <input type="checkbox"/> clay	<input type="checkbox"/> brown surface <input type="checkbox"/> drab olive <input checked="" type="checkbox"/> brown <input type="checkbox"/> gray <input type="checkbox"/> black	<input checked="" type="checkbox"/> none <input type="checkbox"/> slight <input type="checkbox"/> moderate <input type="checkbox"/> strong	H ₂ S petroleum other:	<u>no RPD visible</u>

GRAB DATA		Location ID: <u>SS 232 194508.9 RM</u>		
Latitude/Northing(Y): <u>194508.926</u>		Longitude/Easting(X): <u>1275839.659</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0754</u>	<u>1.2</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS232</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<input type="checkbox"/> cobble <input checked="" type="checkbox"/> gravel <input checked="" type="checkbox"/> sand (F M C) <input type="checkbox"/> silt <input type="checkbox"/> clay	<input type="checkbox"/> brown surface <input type="checkbox"/> drab olive <input checked="" type="checkbox"/> brown <input type="checkbox"/> gray <input type="checkbox"/> black	<input checked="" type="checkbox"/> none <input type="checkbox"/> slight <input type="checkbox"/> moderate <input type="checkbox"/> strong	H ₂ S petroleum other:	<u>red/orange layer 2cm from surface, approx 3cm thick</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10cm)

Project Name: AOC4 - DUWAMISH

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50%, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PJ, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: SS 229		
Latitude/Northing(Y): 194626.18		Longitude/Easting(X): 1276160.34		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1115	3.81	17.0	Y	
SAMPLE DATA		Sample ID: LDW20-SS 229		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
cobble	brown surface	none	petroleum	Sample depth: 0-10 cm (or other: _____ cm)
gravel	drab olive	slight	other:	RPD: None
sand (F M C)	brown	moderate		
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: SS 227		
Latitude/Northing(Y): 194660.56		Longitude/Easting(X): 1276109.79		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1123	8.07	26.0	Y	
SAMPLE DATA		Sample ID: LDW20-SS 227		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
cobble	brown surface	none	petroleum	Sample depth: 0-10 cm (or other: _____ cm)
gravel	drab olive	slight	other:	RPD: None visible
sand (F M C)	brown	moderate		Algae, organic materials, shrimp,
silt	gray	strong		and shell fragments, plant debris.
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Dunwich AOC4 Project no.: _____

Date: 6/19/20 Weather: 70s, partly sunny

Sampling Method: power grab Crew: EP, KG, JH, RM

GRAB DATA		Location ID: <u>SS 230</u>		
Latitude/Northing(Y): <u>194572.141</u>		Longitude/Easting(X): <u>1276026.24</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1301</u>	<u>4.6</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW 20 - SS 230</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>lots of worms</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			
<u>RPD not visible</u>				

GRAB DATA		Location ID: <u>SS 235</u>		
Latitude/Northing(Y): <u>194461.225</u>		Longitude/Easting(X): <u>1276059.489</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1320</u>	<u>4.6</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW 20 - SS 235</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>shell fragments</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			
<u>RPD not visible</u>				

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Dwainish A004 Project no.: _____

Date: 6/23/20 Weather: 70s, Sunny

Sampling Method: power grab Crew: CP, AM, JH, KM

GRAB DATA		Location ID: <u>55234</u>		
Latitude/Northing(Y): <u>1275950.386</u>		Longitude/Easting(X): <u>194425.001</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1338</u>	<u>2.9</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-55234</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>55237</u>		
Latitude/Northing(Y): <u>1275967.118</u>		Longitude/Easting(X): <u>194336.72</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1353</u>	<u>3.0</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-55237</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwamish AOC4 Project no: _____
 Date: 6/26/20 Weather: 60s, Sunny
 Sampling Method: power grab Crew: CP, VG, JH, YM

GRAB DATA		Location ID: <u>55236</u>		
Latitude/Northing(Y): <u>194502.032</u>		Longitude/Easting(X): <u>1276148.391</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1057</u>	<u>2.6</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-55236</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<input type="checkbox"/> cobble	<input checked="" type="checkbox"/> brown surface	<input checked="" type="checkbox"/> none		<u>Surface algae, twigs</u> <u>RPD not visible</u>
<input checked="" type="checkbox"/> gravel <u>trace</u>	<input type="checkbox"/> drab olive	<input type="checkbox"/> slight		
<input checked="" type="checkbox"/> sand (F M C)	<input checked="" type="checkbox"/> brown	<input type="checkbox"/> moderate		
<input checked="" type="checkbox"/> silt	<input checked="" type="checkbox"/> gray	<input type="checkbox"/> strong		
<input type="checkbox"/> clay	<input type="checkbox"/> black			

GRAB DATA		Location ID: <u>55247</u>		
Latitude/Northing(Y): <u>194055.653</u>		Longitude/Easting(X): <u>1275941.305</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1115</u>	<u>1.9</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-55247</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<input checked="" type="checkbox"/> cobble	<input type="checkbox"/> brown surface	<input checked="" type="checkbox"/> none		<u>algae on surface</u> <u>RPD not visible</u>
<input checked="" type="checkbox"/> gravel	<input type="checkbox"/> drab olive	<input type="checkbox"/> slight		
<input checked="" type="checkbox"/> sand (F M C)	<input checked="" type="checkbox"/> brown	<input type="checkbox"/> moderate		
<input checked="" type="checkbox"/> silt	<input type="checkbox"/> gray	<input type="checkbox"/> strong		
<input type="checkbox"/> clay	<input type="checkbox"/> black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwanish AOCY Project no: _____

Date: 6/19 Weather: 70s, partly sunny

Sampling Method: power grab Crew: EP, KG, JH, RM

GRAB DATA		Location ID: <u>SS238</u>		
Latitude/Northing(Y): <u>194340.712</u>		Longitude/Easting(X): <u>1276081.05</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1336</u>	<u>5.0</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS238</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		<u>RPD not visible</u>
clay	black			

GRAB DATA		Location ID: <u>SS329</u>		
Latitude/Northing(Y): <u>192836.982</u>		Longitude/Easting(X): <u>1276180.28</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1357</u>	<u>1.7</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS329</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>arthropods</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		<u>RPD not visible</u>
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DUWAMISH

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50s, cloudy

Sampling Method: GRAVITY Pneumatic grab sampler or hand-collected

Crew: PS, MD, TD, CD

GRAB DATA		Location ID: SS 239		
Latitude/Northing(Y): 194225.00		Longitude/Easting(X): 1275858.30		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1017	5.71.1	16.0	Y	Sonar out, estimated depth
SAMPLE DATA				
Sample ID: LDW20-SS 239				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F M C) silt clay	brown surface drab olive brown gray black	none slight moderate strong H ₂ S petroleum other:		Sample depth: 0-10 cm (or other: _____ cm) RPD: Not visible organic material

GRAB DATA		Location ID: SS 233		
Latitude/Northing(Y): 194396.02		Longitude/Easting(X): 1275849.28		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1030	5.22	16	Y	
SAMPLE DATA				
Sample ID: LDW20-SS 233				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F M C) silt clay	brown surface drab olive brown gray black	none slight moderate strong H ₂ S petroleum other:		Sample depth: 0-10 cm (or other: _____ cm) RPD: None visible Algae and organic materials, leaf litter

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwamish AOC4 Project no.: _____

Date: 6/23/20 Weather: 80s, Sunny

Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS241</u>		
Latitude/Northing(Y): <u>127 6023.606</u>		Longitude/Easting(X): <u>194187.32</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1411</u>	<u>3.4</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LOW20-SS241</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		<u>APD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS242</u>		
Latitude/Northing(Y): <u>1276130.368</u>		Longitude/Easting(X): <u>194200.094</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1428</u>	<u>3.4</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LOW20-SS242</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		<u>APD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY

Project no.:

Date: 6/19/20

Weather: 60s, sunny

Sampling Method: power grab

Crew: FP, KG, JH, RM

GRAB DATA		Location ID: <u>SS240</u>		
Latitude/Northing(Y): <u>194143.798</u>			Longitude/Easting(X): <u>1275895.368</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0816</u>	<u>0.1</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS240</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H ₂ S petroleum other:	Comments: <u>no RPD visible</u>
<u>cobble</u> <u>gravel</u> <u>sand (F M C)</u> silt clay	<u>brown surface</u> <u>drab olive</u> <u>brown</u> <u>gray</u> black	<u>none</u> slight moderate strong		

GRAB DATA		Location ID: <u>SS244</u>		
Latitude/Northing(Y): <u>194193.668</u>			Longitude/Easting(X): <u>1276213.654</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0838</u>	<u>1.1</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS244</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S petroleum other:	Comments: <u>algae,</u> <u>no RPD visible</u>
<u>cobble</u> <u>gravel</u> <u>sand (F M C)</u> <u>silt</u> clay	<u>brown surface</u> <u>drab olive</u> <u>brown</u> gray black	<u>none</u> slight moderate strong		

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no.: _____
 Date: 6/19/20 Weather: 60s, sunny
 Sampling Method: power grab Crew: EP, KG, JH, RM

GRAB DATA		Location ID: <u>SS243</u>		
Latitude/Northing(Y): <u>194243.865</u>		Longitude/Easting(X): <u>1276199.777</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0851</u>	<u>1.0</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS243</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<input type="checkbox"/> cobble <input type="checkbox"/> gravel <input checked="" type="checkbox"/> sand (F M C) <input type="checkbox"/> silt <input type="checkbox"/> clay	<input checked="" type="checkbox"/> brown surface <input type="checkbox"/> drab olive <input checked="" type="checkbox"/> brown <input type="checkbox"/> gray <input type="checkbox"/> black	<input checked="" type="checkbox"/> none <input type="checkbox"/> slight <input type="checkbox"/> moderate <input type="checkbox"/> strong H ₂ S petroleum other:		orange layer 1 cm below surface, approx 3cm thick RPP not visible

GRAB DATA		Location ID: <u>SS417</u>		
Latitude/Northing(Y): <u>190240.31</u>		Longitude/Easting(X): <u>1278528.28</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0820</u>	<u>1.0 above water line</u>	<u>10</u>		<u>collected by hand by Thai Do</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS417</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<input type="checkbox"/> cobble <input type="checkbox"/> gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt <input type="checkbox"/> clay	<input checked="" type="checkbox"/> brown surface <input type="checkbox"/> drab olive <input type="checkbox"/> brown <input type="checkbox"/> gray <input type="checkbox"/> black	<input checked="" type="checkbox"/> none <input type="checkbox"/> slight <input type="checkbox"/> moderate <input type="checkbox"/> strong H ₂ S petroleum other:		RPD 2 cm from surface

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish 4004 Project no.: _____
 Date: 6/19/20 Weather: 70s, sunny
 Sampling Method: power grab Crew: EP, KG, SH, RM

GRAB DATA		Location ID: <u>SS 245</u>		
Latitude/Northing(Y): <u>194132.99</u>		Longitude/Easting(X): <u>1276134.454</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1110</u>	<u>3.5</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS245</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>twigs, organic debris,</u> <u>RPD not visible</u>
gravel <u>fine</u>	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 222</u>		
Latitude/Northing(Y): <u>194775.558</u>		Longitude/Easting(X): <u>1275869.628</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1207</u>	<u>3.7</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS220</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY Project no.: _____

Date: 6/24/20 Weather: 70s, partly sunny

Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>55246</u>		
Latitude/Northing(Y): <u>194078.706</u>			Longitude/Easting(X): <u>1276034.988</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1419</u>	<u>3.0</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-55246</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>twigs</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

GRAB DATA		Location ID: _____		
Latitude/Northing(Y): _____			Longitude/Easting(X): _____	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: _____		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: _____				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	<u>6/24/20</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: NOY (Duwamish)

Project no: _____

Date: 6/12/20

Weather: SOs, cloudy, rain showers

Sampling Method: power grab

Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS248</u>		
Latitude/Northing(Y): <u>193957.633</u>			Longitude/Easting(X): <u>1275905.785</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0841</u>	<u>1.2</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS248</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	brown surface drab olive <input checked="" type="checkbox"/> brown gray black	<input checked="" type="checkbox"/> none slight moderate strong		<u>ockets of orange RPD not visible</u>

GRAB DATA		Location ID: <u>SS263</u>		
Latitude/Northing(Y): <u>193562.149</u>			Longitude/Easting(X): <u>1275992.182</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0901</u>	<u>2.5</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS263</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive brown <input checked="" type="checkbox"/> gray dark black	<input checked="" type="checkbox"/> none slight moderate strong		<u>RPD not visible -trace packets of sheen stick debris</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DUWAMISH

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50% cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PJ, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: SS 249		
Latitude/Northing(Y): 194013.93		Longitude/Easting(X): 1276092.65		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1004	16.80	26.5	Y	
SAMPLE DATA		Sample ID: LDW20-SS 249		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None visible</u> <u>worms, leaf litter, shrimp</u>
gravel	drab olive	slight	petroleum	
sand (F/M/C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

CD 0630.20

GRAB DATA		Location ID: SS		
Latitude/Northing(Y):		Longitude/Easting(X):		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: LDW20-SS		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: 0-10 cm (or other: _____ cm) RPD: <u>None visible</u> <u>worms, leaf litter</u>
gravel	drab olive	slight	petroleum	
sand (F/M/C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwanish AOCY Project no: _____

Date: 6/18/20 Weather: 60s, sunny

Sampling Method: power grab Crew: FP, KG, JH, RM

GRAB DATA		Location ID: <u>SS 251</u>		
Latitude/Northing(Y): <u>193873.752</u>		Longitude/Easting(X): <u>1276029.374</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0911</u>	<u>2.0</u>	<u>23</u>	<u>Y</u>	<u>shrimp on surface</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS251</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>algae,</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 264</u>		
Latitude/Northing(Y): <u>193592.315</u>		Longitude/Easting(X): <u>1276080.056</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0935</u>	<u>2.1</u>		<u>N</u>	<u>garbage caught in jaws, sample winnowed</u>
<u>0939</u>	<u>2.0</u>		<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS264</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>algae</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M/C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOCY (Duvamish) Project no:
 Date: 6/12/20 Weather: 50s, cloudy w/ showers
 Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS253</u>		
Latitude/Northing(Y): <u>193737.828</u>		Longitude/Easting(X): <u>1275936.164</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0754</u>	<u>1.5</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS253</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>algae</u>
gravel	<u>drab olive</u>	slight	petroleum	<u>RPD not visible</u>
<u>sand (F/M/C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS252</u>		
Latitude/Northing(Y): <u>193842.199</u>		Longitude/Easting(X): <u>1275942.584</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0815</u>	<u>2.4</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS252</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>algae, shell fragments,</u>
gravel	<u>drab olive</u>	slight	petroleum	<u>leaf & stick debris</u>
<u>sand (F/M/C)</u>	<u>brown</u>	moderate	other:	<u>pockets of orange</u>
<u>silt</u>	<u>gray</u>	strong		<u>RPD not visible.</u>
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY Project no.: _____

Date: 6/19/20 Weather: 60s, sunny

Sampling Method: power grab Crew: EP, KG, JH, RM

GRAB DATA		Location ID: <u>SS 255</u>		
Latitude/Northing(Y): <u>193863.116</u>		Longitude/Easting(X): <u>1276211.521</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1020</u>	<u>3.2</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS 255</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel <u>trace</u>	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u> <u>dark</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 250</u>		
Latitude/Northing(Y): <u>193999.202</u>		Longitude/Easting(X): <u>1276177.361</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1042</u>	<u>3.2</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS 250</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>photo taken after scooping grab</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u> <u>dark</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10 cm)

Project Name: AOC4 - DUWAMISH Project no: PDI Sediment sampling (Phase 1)

Date: 6/30/20 Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected Crew: PS, MD, TD, CP

GRAVITY

GRAB DATA		Location ID: <u>SS 256</u>		
Latitude/Northing(Y): <u>193914.51</u>		Longitude/Easting(X): <u>1276283.32</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0951</u>	<u>6.83</u>	<u>28.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS'256</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None</u> <u>Lots of organic material and filamentous Algae</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS</u>		
Latitude/Northing(Y):		Longitude/Easting(X):		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: <u>LDW20-SS</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None</u> <u>Lots of organic material and filamentous Algae</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

CP 06.30.20

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-70cm)

Project Name: Duwamish AOCY Project no: _____
 Date: 6/26/20 Weather: 60s, sunny
 Sampling Method: power grab Crew: EP, KG, JH, KM

GRAB DATA		Location ID: <u>SS257</u>		
Latitude/Northing(Y): <u>193923.841</u>		Longitude/Easting(X): <u>1276328.369</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1013</u>	<u>2.1</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS257</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<u>cobble</u> <u>gravel</u> <u>trace</u> <u>sand</u> (F) (M) (C) <u>silt</u> clay	<u>brown surface</u> drab olive <u>brown</u> <u>gray</u> black	<u>none</u> H ₂ S slight petroleum moderate other: strong		<u>Surface algae</u> <u>RPD not visible</u>

GRAB DATA		Location ID: <u>SS228</u>		
Latitude/Northing(Y): <u>194671.026</u>		Longitude/Easting(X): <u>1276146.879</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1032</u>	<u>2.0</u>	<u>-</u>	<u>N</u>	<u>no recovery</u>
<u>1039</u>	<u>1.6</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS228</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<u>cobble</u> <u>trace</u> gravel <u>sand</u> (F) (M) (C) silt clay	<u>brown surface</u> <u>km</u> drab olive <u>brown</u> <u>gray</u> black	<u>none</u> H ₂ S slight petroleum moderate other: strong		<u>RPD not visible</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DUWAMISH

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PS, MD, TD, CD

GRAVIM

GRAB DATA		Location ID: SS 260		
Latitude/Northing(Y): 193774.09		Longitude/Easting(X): 1276327.83		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
0933	5.75	29.5	Y	
SAMPLE DATA		Sample ID: LDW20-SS 260		
Pre-homogenization analyses (circle): VOC Sulphides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	(brown surface)	(none)	H ₂ S	Sample depth (0-10 cm) or other: _____ cm RPD: Not visible leaf litter and organic material (photo of homogenized sediment not taken)
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
(silt)	(gray)	strong		
clay	black			

GRAB DATA		Location ID: SS 259		
Latitude/Northing(Y): 193845.18		Longitude/Easting(X): 1276318.32		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
0942	4.98	13.5	Y	
SAMPLE DATA		Sample ID: LDW20-SS 259		
Pre-homogenization analyses (circle): VOC Sulphides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	(brown surface)	(none)	H ₂ S	Sample depth: (0-10 cm) or other: _____ cm RPD: None Wood debris and organic material.
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
(silt)	(gray)	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10cm)

Project Name: AOC4 - DOWOMISH

Project no: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PS, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: SS <u>262</u>		
Latitude/Northing(Y): <u>193689.51</u>		Longitude/Easting(X): <u>1276095.74</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0912</u>	<u>13.91</u>	<u>20.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>262</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>leaf litter</u>
gravel	drab olive	slight	petroleum	
sand (F/M/C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: SS <u>254</u>		
Latitude/Northing(Y): <u>193835.08</u>		Longitude/Easting(X): <u>1276123.72</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0921</u>	<u>16.05</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>254</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>leaf litter. Trace shell fragments and organic material</u>
gravel	drab olive	slight	petroleum	
sand (F/M/C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY Project no: _____

Date: 6/26/20 Weather: 60s, sunny

Sampling Method: power grab Crew: EP, KG, JH, KM

GRAB DATA		Location ID: <u>SS266</u>		
Latitude/Northing(Y): <u>193715.226</u>			Longitude/Easting(X): <u>1276357.798</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0934</u>	<u>2.7</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS266</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>algae on surface</u>
gravel	drab olive	slight	petroleum	<u>RPD not visible</u>
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS258</u>		
Latitude/Northing(Y): <u>193857.048</u>			Longitude/Easting(X): <u>1276356.37</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0954</u>	<u>1.9</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS258</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>wood debris</u>
gravel	drab olive	slight	petroleum	<u>RPD not visible</u>
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10cm)

Project Name: AOC4 - DOWDOWNISH

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PS, MP, TD, CD

GRAVITY

GRAB DATA		Location ID: SS <u>267</u>		
Latitude/ <u>Nothing</u> (Y): <u>193633.82</u>		Longitude/ <u>Easting</u> (X): <u>1276363.33</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0848</u>	<u>3.38</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>267</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		Sample depth: <u>0-10 cm</u> (or other: _____ cm)
gravel	drab olive	slight	petroleum	RPD: <u>Not visible</u>
sand (F M C)	<u>brown</u>	moderate	other:	<u>Some plant debris and isolated packets of green. Algae and organic material</u>
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: SS <u>265</u>		
Latitude/ <u>Nothing</u> (Y): <u>193639.53</u>		Longitude/ <u>Easting</u> (X): <u>1276245.31</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0901</u>	<u>14.57</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>265</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		Sample depth: <u>0-10 cm</u> (or other: _____ cm)
gravel	drab olive	slight	petroleum	RPD: <u>None</u>
sand (F M C)	brown	moderate	other:	<u>Lots of plant debris, shell fragments</u>
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY Project no.: _____
 Date: 6/19/20 Weather: 60s, sunny
 Sampling Method: power grab Crew: FP, KG, JH, RM

GRAB DATA		Location ID: <u>SS 269</u>		
Latitude/Northing(Y): <u>193486.277</u>		Longitude/Easting(X): <u>1276278.887</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0942</u>	<u>3.4</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS 269</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u> <i>1cm thick</i>	none	<u>H₂S</u>	<u>orange pockets</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	<u>moderate</u>	other:	<u>RPD not visible</u>
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 261</u>		
Latitude/Northing(Y): <u>193729.099</u>		Longitude/Easting(X): <u>1276211.61</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1001</u>	<u>3.5</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS 261</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <i>dark</i>	strong		<u>RPD not visible</u>
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOCY (Orwanish) Project no: _____
 Date: 6/12/20 Weather: 50s, cloudy
 Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS272</u>		
Latitude/Northing(Y): <u>193395.277</u>			Longitude/Easting(X): <u>1276025.29</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0922</u>	<u>2.3</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS272</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worm tubes, leaf debris</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS271</u>		
Latitude/Northing(Y): <u>193418.296</u>			Longitude/Easting(X): <u>1276116.164</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0939</u>	<u>3.7</u>	<u>—</u>	<u>N</u>	<u>over-penetrated</u>
<u>0945</u>	<u>3.8</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS271</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>leaf debris</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
<u>clay</u>	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOCY (Duwamish) Project no: —
 Date: 6/12/20 Weather: Sds, cloudy w/ rain showers
 Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS273</u>		
Latitude/Northing(Y): <u>193336.97</u>		Longitude/Easting(X): <u>1276102.133</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1032</u>	<u>3.3</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS273</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H₂S</u>	<u>worms, worm tubes, amphipods</u> <u>RPD not visible</u>
gravel	drab olive	<u>slight</u>	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS151</u>		
Latitude/Northing(Y): <u>196391.667</u>		Longitude/Easting(X): <u>1274560.605</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1102</u>	<u>2.2</u>	<u>23</u>	<u>Y</u>	<u>collected field duplicate</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS151</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>leaf debris</u> <u>RPD not visible</u>
gravel	drab olive	<u>slight</u>	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - Duwamish

Project no: PDI Sediment sampling (Phase 1)

Date: 5/29/20

Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PJ, MD, TD, CD

CIRAVIPI

GRAB DATA		Location ID: SS 300		
Latitude/Northing(Y): 193513.75		Longitude/Easting(X): 1276473.92		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
0823	2.1	15.5	Y	
SAMPLE DATA		Sample ID: LDW20-SS 300		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments: plant debris and organic material Sample depth: 0-10 cm (or other: _____ cm) RPD: 3,5 cm
cobble	brown surface	none	H ₂ S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: SS 305		
Latitude/Northing(Y): 193382.87		Longitude/Easting(X): 1276412.96		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
0845	7.02	35.0	Y	
SAMPLE DATA		Sample ID: LDW20-SS 305		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments: Sample depth: 0-10 cm (or other: _____ cm) RPD: < 0.5 cm Worm Tubes and trace shell fragments
cobble	brown surface	none	H ₂ S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duhamich AOC4 Project no.: _____
 Date: 6/23/20 Weather: 60s, sunny
 Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS301</u>		
Latitude/Northing(Y): <u>193521.398 km</u>		Longitude/Easting(X): <u>1276622.028 km</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0845</u>	<u>0.1</u>	<u>—</u>	<u>N</u>	<u>winnowed, will return on incoming tide</u>
SAMPLE DATA		Sample ID: <u>not collected</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS306</u>		
Latitude/Northing(Y): <u>193345.525</u>		Longitude/Easting(X): <u>1276634.875</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0859</u>	<u>0.4</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS306</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwamish AOC4 Project no: _____
 Date: 6/24/20 Weather: 60s, partly sunny
 Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS301</u>		
Latitude/Northing(Y): <u>193521.398</u>		Longitude/Easting(X): <u>1276622.028</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0745</u>	<u>0.8</u>	<u>-</u>	<u>N</u>	<u>under-penetrated & gravel in jaws;</u>
<u>0754</u>	<u>0.8</u>	<u>14</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS301</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	Comments:	
cobble <input checked="" type="checkbox"/> gravel sand (F M C) <input checked="" type="checkbox"/> silt clay	brown surface drab olive <input checked="" type="checkbox"/> brown gray black	<input checked="" type="checkbox"/> none slight moderate strong	H ₂ S petroleum other:	<u>vegetation on surface</u> <u>KPD not visible</u>

no coordinates recorded for 1st attempt

GRAB DATA		Location ID: <u>SS302</u>		
Latitude/Northing(Y): <u>193473.592</u>		Longitude/Easting(X): <u>1276642.262</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0814</u>	<u>0.9</u>	<u>-</u>	<u>N</u>	<u>rock in jaws, no coordinates recorded for 1st attempt</u>
<u>0818</u>	<u>0.9</u>	<u>11</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS302</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	Comments:	
<input checked="" type="checkbox"/> cobble <input checked="" type="checkbox"/> gravel sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive brown <input checked="" type="checkbox"/> gray dark black	<input checked="" type="checkbox"/> none slight moderate strong	H ₂ S petroleum other:	<u>twigs</u> <u>KPD not visible</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DOWEMISH Project no.: PDI Sediment sampling (Phase 1)

Date: 6/29/20 Weather: 70s, partly cloudy

Sampling Method: Pneumatic grab sampler or hand-collected Crew: PS, MD, TD, CD

CRUIM

GRAB DATA		Location ID: SS <u>303</u>		
Latitude/Northing(Y): <u>193420.50</u>		Longitude/Easting(X): <u>1276581.71</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1526</u>	<u>3.8</u>	<u>29.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>303</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>Trace leaf litter,</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

4862920

GRAB DATA		Location ID: SS		
Latitude/Northing(Y):		Longitude/Easting(X):		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: LDW20-SS		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth: 0-10 cm (or other: _____ cm) RPD:
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DUWAMISH

Project no: PDI Sediment sampling (Phase 1)

Date: 6/29/20

Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PS, MD, TD, CD

GRAVIM

GRAB DATA		Location ID: SS <u>307</u>		
Latitude/Northing(Y): <u>193297.29</u>		Longitude/Easting(X): <u>1276521.61</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0855</u>	<u>3.32</u>	<u>14.0</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>307</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments: <u>Organic Material</u>
cobble	<u>brown surface</u>	<u>none</u>		Sample depth: <u>0-10 cm</u> (or other: _____ cm)
gravel	drab olive	slight	petroleum	RPD: <u>Not visible</u>
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
<u>clay</u> <u>Some</u>	black			

GRAB DATA		Location ID: SS		
Latitude/Northing(Y):		Longitude/Easting(X): <u>62920</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: LDW20-SS		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments: <u>Organic Material</u>
cobble	<u>brown surface</u>	<u>none</u>		Sample depth: <u>0-10 cm</u> (or other: _____ cm)
gravel	drab olive	slight	petroleum	RPD: <u>Not visible</u>
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
<u>clay</u> <u>Some</u>	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no: _____
 Date: 6/23/20 Weather: 60s, sunny
 Sampling Method: power grab Crew: CP, AM, JH, KM

GRAB DATA		Location ID: <u>SS309 SS308</u>		
Latitude/Northing(Y): <u>193291.047</u>			Longitude/Easting(X): <u>1276600.823</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0916</u>	<u>0.4</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS308</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS400</u>		
Latitude/Northing(Y): <u>190427.282</u>			Longitude/Easting(X): <u>1278196.343</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0944</u>	<u>1.0</u>	<u>-</u>	<u>N</u>	<u>under-penetrated + winnowed</u>
<u>0955</u>	<u>0.6</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS400</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: DuWamish AOC4 Project no: _____
 Date: 6/24/20 Weather: 60s, mostly sunny
 Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>55309</u>		
Latitude/Northing(Y): <u>193254.199</u>			Longitude/Easting(X): <u>1276654.158</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0842</u>	<u>1.2</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-55309</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	<u>twigs & sticks</u>
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>55323</u>		
Latitude/Northing(Y): <u>192832.756</u>			Longitude/Easting(X): <u>1276792.887</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0913</u>	<u>1.4</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-55323</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>twigs</u>
gravel	drab olive	slight	petroleum	<u>RPD not visible</u>
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duvalish AOC4 Project no: _____
 Date: 6/24/20 Weather: 60s, mostly cloudy
 Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: KM55320 <u>SS311</u>		
Latitude/Northing(Y): <u>193168.829</u>		Longitude/Easting(X): <u>1276590.062</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0943</u>	<u>1.0</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS311</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>clam shells, twigs</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS313</u>		
Latitude/Northing(Y): <u>193083.508</u>		Longitude/Easting(X): <u>1276614.915</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1000</u>	<u>0.8</u>	<u>-</u>	<u>N</u>	<u>steeply sloped & partially winnowed</u>
<u>1009</u>	<u>0.7</u>	<u>13</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS313</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms, pockets of orange</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u> <u>dark</u>	moderate	other:	
<u>silt</u>	gray	strong		
<u>clay</u>	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOC4 - Duwomish

Project no: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50s, cloudy

Sampling Method: Pneumatic grab sample or hand-collected

Crew: PS, MD, TD, CA

GRAVITY

GRAB DATA		Location ID: SS <u>314</u>		
Latitude/Northing(Y): <u>1276453.15</u>		Longitude/Easting(X): <u>193014.20</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0831</u>	<u>11.81</u>	<u>28.0</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: LDW20-SS <u>314</u>				
Pre-homogenization analyses (circle): VOC Sulphides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>Trace organic material</u> <u>(Photo of Homogenized sediment Not taken)</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: SS <u>270</u>		
Latitude/Northing(Y): <u>1276224.71</u>		Longitude/Easting(X): <u>193420.44</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0839</u>	<u>14.70</u>	<u>27.5</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: LDW20-SS <u>270</u>				
Pre-homogenization analyses (circle): VOC Sulphides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>Some plant debris and organic material, worm.</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u> <u>Trace</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - Duwamish Project no.: PDI Sediment sampling (Phase 1)
 Date: 6/29/20 Weather: 50s, cloudy
 Sampling Method: Pneumatic grab sampler or hand-collected Crew: PJ, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: SS <u>315</u>		
Latitude/Northing(Y): <u>193028.43</u>		Longitude/Easting(X): <u>1276539.42</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0906</u>	<u>6.66</u>	<u>24.0</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>315</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S petroleum other:	Comments:
cobble gravel sand (F) (M) (C) (T) <u>(silt)</u> clay	<u>brown surface</u> <u>drab olive</u> brown gray black	<u>none</u> slight moderate strong		Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>Trace plant debris and isolated pockets of Sheen</u>

GRAB DATA		Location ID: SS <u>321</u>		
Latitude/Northing(Y): <u>192856.24</u>		Longitude/Easting(X): <u>1276665.80</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0916</u>	<u>3.09</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>321</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S petroleum other:	Comments:
cobble gravel sand (F) (M) (C) <u>(silt)</u> clay	<u>brown surface</u> drab olive <u>brown</u> <u>gray</u> black	<u>none</u> slight moderate strong		Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>Warm, shell fragments</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - Downwash Project no.: PDI Sediment sampling (Phase 1)
 Date: 6/29/20 Weather: 70s, partly cloudy
 Sampling Method: Pneumatic grab sampler or hand-collected Crew: PS, MD, TD, CD
GRAVITY

GRAB DATA		Location ID: SS <u>316</u> (Re-occupy)		
Latitude/Northing(Y): <u>193065.16</u>		Longitude/Easting(X): <u>1276698.15</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1509</u>	<u>1.4</u>	<u>13</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS 316</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F) (M) (C) <u>silt</u> clay	<u>brown surface</u> drab olive <u>brown</u> gray black	<u>none</u> slight moderate strong	H ₂ S petroleum other:	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: Not visible Algae at the surface. Trace organic material

GRAB DATA		Location ID: SS <u>312</u> (Re-occupy)		
Latitude/Northing(Y): <u>193155.14</u>		Longitude/Easting(X): <u>1276687.06</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1518</u>	<u>1.2</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS 312</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F) (M) (C) <u>silt</u> clay	<u>brown surface</u> drab olive brown <u>gray</u> black	<u>none</u> slight moderate strong	H ₂ S petroleum other:	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: Not visible Trace plant material (photo of homogenized sample not taken)

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: D. Wamish AOC4 Project no: _____
 Date: 6/24/20 Weather: 60s, cloudy
 Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>55317</u>		
Latitude/Northing(Y): <u>192990.801</u>		Longitude/Easting(X): <u>1276671.653</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1025</u>	<u>0.1</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>L0W20-55317</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
<u>clay</u>	black			

GRAB DATA		Location ID: <u>55404</u>		
Latitude/Northing(Y): <u>190361.631 km</u>		Longitude/Easting(X): <u>1278244.267 km</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1102</u>	<u>2.8</u>	<u>-</u>	<u>N</u>	<u>Sampler tipped over, no recovery</u>
<u>1104</u>	<u>2.8</u>	<u>-</u>	<u>N</u>	<u>no recovery</u>
<u>1108</u>	<u>3.0</u>	<u>-</u>	<u>N</u>	<u>washed out</u>
SAMPLE DATA		Sample ID: <u>L0W20-55404 cm not collected</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no: _____
 Date: 6/18/20 Weather: 70S, sunny
 Sampling Method: power grab Crew: EP, KG, JH, RM

GRAB DATA		Location ID: <u>SS 318</u>		
Latitude/Northing(Y): <u>192945.342</u>		Longitude/Easting(X): <u>1276521.419</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1225</u>	<u>2.1</u>	<u>25</u>	<u>Y</u>	<u>shrimp in grab</u>
SAMPLE DATA		Sample ID: <u>LDW20 - SS 318</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>algae,</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u> dark	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 322</u>		
Latitude/Northing(Y): <u>192777.696</u>		Longitude/Easting(X): <u>1276518.539</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1242</u>	<u>3.0</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS 322</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: _____				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>light orange pockets,</u> <u>algae</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u> dark	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwamish A064 Project no.: _____
 Date: 6/25/20 Weather: 60s, sunny
 Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>55319</u>		
Latitude/Northing(Y): <u>192910.923</u>			Longitude/Easting(X): <u>12766^{no}0.808</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0753</u>	<u>2.7</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-55319</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <u>sand (F/M/C)</u> <u>silt</u> clay	<u>brown surface</u> drab olive <u>brown</u> <u>dark</u> <u>gray</u> black	<u>none</u> slight moderate strong		<u>RPD not visible</u> H ₂ S petroleum other:

GRAB DATA		Location ID: <u>55393</u>		
Latitude/Northing(Y): <u>190517.543</u>			Longitude/Easting(X): <u>1277742.404</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0817</u>	<u>2.6</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-55393</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<u>cobble</u> <u>trace</u> gravel <u>sand (F/M/C)</u> <u>silt</u> clay	<u>brown surface</u> drab olive <u>brown</u> <u>gray</u> black	<u>none</u> slight moderate strong		<u>RPD not visible</u> <u>shell fragments</u> H ₂ S petroleum other:

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Ouwamish AOCY Project no.: _____
 Date: 6/25/20 Weather: 60s, sunny
 Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS320</u>		
Latitude/Northing(Y): <u>192920.675</u>		Longitude/Easting(X): <u>1276760.476</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0710</u>	<u>1.0</u>	<u>14</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS320</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	<u>plants + macroalgae on surface</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS304</u>		
Latitude/Northing(Y): <u>193436.139</u>		Longitude/Easting(X): <u>1276496.504</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0736</u>	<u>2.2</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS304</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no.: _____
 Date: 6/17/20 Weather: 50s, partly sunny
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS 324</u>		
Latitude/Northing(Y): <u>193170.36</u>		Longitude/Easting(X): <u>1276017.71</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0842</u>	<u>1.2</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS324</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>no RPD visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS326</u>		
Latitude/Northing(Y): <u>193031.542</u>		Longitude/Easting(X): <u>1276190.309</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0922</u>	<u>0.9</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS326 RM SS326</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>no RPD visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwanish AOC4 Project no: _____
 Date: 6/17/20 Weather: 60s, sunny
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS327</u>		
Latitude/Northing(Y): <u>192858.158</u>		Longitude/Easting(X): <u>1276090.213</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1323</u>	<u>2.4</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20 - SS327</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H₂S</u>	<u>no RPD visible</u>
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
<u>sand</u> (F M C)	<u>brown</u> <u>dark</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS331</u>		
Latitude/Northing(Y): <u>192698.296</u>		Longitude/Easting(X): <u>1276162.611</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1402</u>	<u>2.2</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20 - SS331</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>no RPD visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand</u> (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no.: _____
 Date: 6/18/20 Weather: 60s, sunny
 Sampling Method: power grab Crew: EP, KG, JH, PM

GRAB DATA		Location ID: <u>SS328</u>		
Latitude/Northing(Y): <u>192811.92</u>		Longitude/Easting(X): <u>1276017.11</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0806</u>	<u>1.6</u>	<u>29</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS328</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>no APD visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS329</u>		
Latitude/Northing(Y): <u>192832.9</u>		Longitude/Easting(X): <u>127811.0</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0840</u>	<u>0.5</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS329</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>orange packets, algae</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwamish AOCY Project no.: _____
 Date: 6/17/20 Weather: 60s, sunny
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS 332</u>		
Latitude/Northing(Y): <u>192700.588</u>		Longitude/Easting(X): <u>1276244.786</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1425</u>	<u>2.3</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 332</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms</u> <u>no RAP visible</u>
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: _____		
Latitude/Northing(Y): _____		Longitude/Easting(X): _____		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: _____		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: _____				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>Reg. Matter 6/17/20</u>
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOCY (DUwanish) Project no:
 Date: 6/11/20 Weather: 50s, cloudy
 Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>55333</u>		
Latitude/Northing(Y): <u>192561.839</u>		Longitude/Easting(X): <u>1276262.392</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0813</u>	<u>4.1</u>	<u>28</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-55333</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>pockets of sheen</u> <u>RPD not visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>55169</u>		
Latitude/Northing(Y): <u>195856.302</u>		Longitude/Easting(X): <u>1275167.809</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0841</u>	<u>3.0</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-55169</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>algae, worms, worm tubes,</u> <u>pockets of sheen</u> <u>RPD not visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOCY (Ouwamish) Project no:
 Date: 6/10/20 Weather: 60s, mostly cloudy
 Sampling Method: power grab Crew: EP, AM, KM, KM

GRAB DATA		Location ID: <u>SS336</u>		
Latitude/Northing(Y): <u>192589.304</u>		Longitude/Easting(X): <u>1276645.067</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0943</u>	<u>4.9</u>	<u>24</u>	<u>Y</u>	<u>extra jar collected for grain size lab @</u>
SAMPLE DATA		Sample ID: <u>LOW20-SS336</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	<u>H₂S</u>	<u>Worms, leaf debris</u> <u>RPD not visible</u>
gravel	drab olive	<u>slight</u>	petroleum	
<u>sand (F/M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS335</u>		
Latitude/Northing(Y): <u>192473.805</u>		Longitude/Easting(X): <u>1276598.266</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1001</u>	<u>4.6</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS335</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>Worms + worm tubes</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F/M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOCY (Duwamish) Project no: —
 Date: 6/10/20 Weather: SO's, mostly cloudy
 Sampling Method: power grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS337</u>		
Latitude/Northing(Y): <u>192495.785</u>		Longitude/Easting(X): <u>1276712.76</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0847</u>	<u>4.4</u>	<u>28</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS337</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>leaf debris, pockets of orange in unhomogenized sample</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS338</u>		
Latitude/Northing(Y): <u>192599.318</u>		Longitude/Easting(X): <u>1276778.868</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0902</u>	<u>4.8</u>	<u>—</u>	<u>N</u>	<u>over-penetrated</u>
<u>0909</u>	<u>5.0</u>	<u>26</u>	<u>Y</u>	<u>collected field duplicate</u>
SAMPLE DATA				
Sample ID: <u>LDW20-SS338</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms, worm tubes, leaf debris, small pockets of silt, RPD not visible</u> <u>field duplicate location</u>
gravel	drab olive	<u>slight</u>	<u>petroleum</u>	
<u>sand (F M C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 (Dunamish) Project no.: _____
 Date: 6/16/20 Weather: 50s, cloudy
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS 339</u>		
Latitude/Northing(Y): <u>192702.833</u>		Longitude/Easting(X): <u>1276779.932</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0749</u>	<u>2.3</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20 SS-339</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>no sheen</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 340</u>		
Latitude/Northing(Y): <u>192747.906</u>		Longitude/Easting(X): <u>1276867.437</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0812</u>	<u>1.9</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20 SS340</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>Small amount of microphyte</u> <u>detritus,</u> <u>orange pockets, worms</u> <u>no sheen</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwanish AOCY Project no: _____
 Date: 6/16/20 Weather: 50c, cloudy
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS 342</u>		
Latitude/Northing(Y): <u>192803.46</u>		Longitude/Easting(X): <u>1277032.119</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0922</u>	<u>2.5</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20 SS 342</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>orange pockets (trace)</u> <u>no sheen</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 351</u>		
Latitude/Northing(Y): <u>192934.183</u>		Longitude/Easting(X): <u>1277484.912</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0943</u>	<u>3.0</u>	<u>16</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20 SS 351</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>no sheen</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u> <u>dark</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Dunamish AOC4 Project no: _____
 Date: 6/15/20 Weather: 50s, cloudy w/ showers
 Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS344</u>		
Latitude/Northing(Y): <u>192705.396</u>		Longitude/Easting(X): <u>1277211.538</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1257</u>	<u>2.9</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS344</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>woody debris</u> <u>Small pockets of orange</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray dark</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS217</u>		
Latitude/Northing(Y): <u>195102.165</u>		Longitude/Easting(X): <u>1275902.566</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1320</u>	<u>6.6</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS217</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>Worms</u> <u>leaf debris</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY Project no: _____
 Date: 6/16/20 Weather: 50s, cloudy
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS 346</u>		
Latitude/Northing(Y): <u>192820.002</u>		Longitude/Easting(X): <u>1277188.734</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1050</u>	<u>3.3</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20SS346</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H ₂ S		<u>worms</u>
gravel	drab olive	slight petroleum		<u>no sheen</u>
sand (F M C)	<u>brown</u>	moderate other:		<u>no RPD visible</u>
<u>silt</u>	<u>gray</u> dark	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 343</u>		
Latitude/Northing(Y): <u>192741.162</u>		Longitude/Easting(X): <u>1277072.485</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1111</u>	<u>3.5</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 343</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u> H ₂ S		<u>leaf and stick debris</u>
gravel	drab olive	slight petroleum		<u>no sheen</u>
sand (F M C)	<u>brown</u> <u>brn</u> dark	moderate other:		<u>no RPD visible</u>
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOCY (Duvamish) Project no.: _____
 Date: 8/15/20 Weather: 50s, showers
 Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS347</u>		
Latitude/Northing(Y): <u>192895.575</u>		Longitude/Easting(X): <u>1277208.892</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1111</u>	<u>3.5</u>	<u>27</u>	<u>Y</u>	
1114 km	2.6 km			
SAMPLE DATA		Sample ID: <u>LDW20-SS347</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS350</u>		
Latitude/Northing(Y): <u>192832.648</u> km		Longitude/Easting(X): <u>1277430.609</u> km		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1135</u>	2.7 <u>2.3</u> km	<u>—</u>	<u>N</u>	<u>under penetrated + washed out</u>
<u>1144</u>	<u>2.6</u>	<u>—</u>	<u>N</u>	<u>tipped over</u>
<u>1150</u>	<u>2.4</u>	<u>—</u>	<u>N</u>	<u>no recovery</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS350</u> km no sample collected		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	<u>steep slope + riprap, will attempt again w/in 32 ft</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY Project no.: _____
 Date: 6/16/20 Weather: 50s, cloudy
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS 348</u>		
Latitude/Northing(Y): <u>192932.409</u>		Longitude/Easting(X): <u>1277314.899</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1004</u>	<u>3.0</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 348</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>no sheen</u>
gravel	drab olive	slight	petroleum	<u>no RPD visible</u>
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 349</u>		
Latitude/Northing(Y): <u>192836.435</u>		Longitude/Easting(X): <u>1277358.097</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1027</u>	<u>3.1</u>	<u>30</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 349</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>no sheen</u>
gravel	drab olive	slight	petroleum	<u>no RPD visible</u>
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwamish AOCY

Project no: _____

Date: 6/15/20

Weather: 50s, cloudy w/ showers

Sampling Method: power grab

Crew: CP, AM, JH, KM

GRAB DATA		Location ID: <u>55350 (cont.)</u>		
Latitude/Northing(Y): <u>12724 192832.848</u>		Longitude/Easting(X): <u>12724 1277430.609</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1219</u>	<u>3.4</u>	<u>25</u>	<u>Y</u>	<u>23 ft from target</u>
SAMPLE DATA		Sample ID: <u>LDW20-55350</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>Small pockets of orange RPD not visible</u> <u>Small pockets (<3mm in size) of sheen</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>55352</u>		
Latitude/Northing(Y): <u>192972.629</u>		Longitude/Easting(X): <u>1277421.533</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1235</u>	<u>4.5</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-55352</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>Leaf debris</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY Project no: _____
 Date: 6/16/20 Weather: 50s, cloudy
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS 353</u>		
Latitude/Northing(Y): <u>193028.774</u>		Longitude/Easting(X): <u>1277429.878</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0829</u>	<u>2.1</u>	<u>26</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20 SS 353</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>Organic debris (twigs, leaves)</u> <u>no sheen</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 345</u>		
Latitude/Northing(Y): <u>192761.349</u>		Longitude/Easting(X): <u>1277270.782</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0847</u>	<u>2.2</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20 SS 345</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>trace organic debris</u> <u>no sheen</u> <u>no RPD visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u> <u>dark</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: A004 (Ouwamish) Project no: —
 Date: 6/10/20 Weather: S0s, cloudy
 Sampling Method: power grab Crew: EP, AM, KM, TD, KM

GRAB DATA		Location ID: <u>SS357</u>		
Latitude/Northing(Y): <u>192130.7</u>			Longitude/Easting(X): <u>1276822.932</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0730</u>	<u>2.7</u>	<u>27</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS357</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worm tubes, leaf debris,</u> <u>other trace organic matter</u> <u>RPD not visible</u> <u>Ⓢ no homogenized sediment photo</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS356</u>		
Latitude/Northing(Y): <u>192203.18</u>			Longitude/Easting(X): <u>1276781.992</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0746</u>	<u>2.8</u>	<u>26</u>	<u>Y</u>	<u>collected extra jar for grain size QC</u>
SAMPLE DATA				
Sample ID: <u>LDW20-SS356</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms</u> <u>RPD not visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - Duwamish Project no: PDI Sediment sampling (Phase 1)

Date: 6/29/20 Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected Crew: PJ, MP, TD, CD

GRAVIM

GRAB DATA		Location ID: SS 358		
Latitude/Northing(Y): 192124.99		Longitude/Easting(X): 1276416.25		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
0927	5.84	21	Y	
SAMPLE DATA		Sample ID: LDW20-SS 358		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth: 0-10 cm (or other: _____ cm) RPD: Not vis plant debris, organic material at surface
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: SS 360		
Latitude/Northing(Y): 191984.71		Longitude/Easting(X): 1276371.03		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
0945	3.09	23.0	Y	
SAMPLE DATA		Sample ID: LDW20-SS 360		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth: 0-10 cm (or other: _____ cm) RPD: Not visible Some organic material
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Dunamish AOCY Project no: _____
 Date: 6/18/20 Weather: 70s, sunny
 Sampling Method: power grab Crew: EP, KG, JH, RM

GRAB DATA		Location ID: <u>SS 359</u>		
Latitude/Northing(Y): <u>192114.509</u>		Longitude/Easting(X): <u>1276345.421</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1304</u>	<u>0.1</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-359</u> SS359		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	none	H ₂ S	<u>orange pockets</u> <u>no RPA visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u> <u>dark</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 377</u>		
Latitude/Northing(Y): <u>190832.533</u>		Longitude/Easting(X): <u>1277142.063</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1330</u>	<u>0.9</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 377</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>no RPA visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - Duwamish

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/29/20

Weather: 60s, cloudy

Sampling Method: GRAVITY Pneumatic grab sampler or hand-collected

Crew: PJ, MD, TD, CD

GRAB DATA		Location ID: SS 361		
Latitude/Northing(Y): 191910.56		Longitude/Easting(X): 1276492.91		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
0955	7.39	18	Y	
SAMPLE DATA		Sample ID: LDW20-SS 361		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth: 0-10 cm (or other: _____ cm) RPD: Not visible Algae, amphipods, and organic material
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: SS 361 ^{OP} 367		
Latitude/Northing(Y): 191452.50		Longitude/Easting(X): 1276566.01		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1008	7.45	34.5	Y	
SAMPLE DATA		Sample ID: LDW20-SS 367		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth: 0-10 cm (or other: _____ cm) RPD: Not visible organic material and worm tube. Trace plant material
gravel	drab olive	slight	petroleum	
sand (F M C) TR	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (070 cm)

Project Name: AOLY (DUWAMISH) Project no: —
 Date: 6/10/20 Weather: 50%, rain
 Sampling Method: point grab Crew: EP, AM, RM, KM

GRAB DATA		Location ID: <u>SS364</u>		
Latitude/Northing(Y): <u>191851.167</u>		Longitude/Easting(X): <u>1276927.652</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0810</u>	<u>2.6</u>	<u>28</u>	<u>Y</u>	<u>collected extra jar for grain size GC</u>
SAMPLE DATA		Sample ID: <u>LOW20-SS364</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive <input checked="" type="checkbox"/> brown <input checked="" type="checkbox"/> gray black	<input checked="" type="checkbox"/> none slight moderate strong H ₂ S petroleum other:		<u>worms + leaf debris</u> <u>RFD not visible</u>

GRAB DATA		Location ID: <u>SS355</u>		
Latitude/Northing(Y): <u>192209.813</u>		Longitude/Easting(X): <u>1276710.866</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0830</u>	<u>3.7</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS355</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>N/A</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive <input checked="" type="checkbox"/> brown gray black	<input checked="" type="checkbox"/> none slight moderate strong H ₂ S petroleum other:		<u>leaf debris</u> <u>RFD not visible</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: A0C4 (Duwamish) Project no: _____
 Date: 6/17/20 Weather: SOs, cloudy
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS 365</u>		
Latitude/Northing(Y): <u>191761.59</u>		Longitude/Easting(X): <u>1276528.127</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0956</u>	<u>0.8</u>	<u>16</u>	<u>N</u>	<u>grab not level</u>
<u>1005</u>	<u>0.8</u>	<u>17</u>	<u>N</u>	<u>grabbed surface of previous attempt</u>
<u>1013</u>	<u>0.9</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS 365</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>large amounts of orange</u> <u>pockets</u> <u>no RPD visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F/M/C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	<u>black</u>			

GRAB DATA		Location ID: <u>SS 368</u>		
Latitude/Northing(Y): <u>191332.113</u>		Longitude/Easting(X): <u>1276587.442</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1034</u>	<u>1.9</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS 368</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>no RPD visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F/M/C)</u>	<u>brown</u>	moderate	other:	
<u>silt trace</u>	<u>gray</u>	strong		
clay	<u>black</u>			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwamish AOC4 Project no: _____
 Date: 6/17/20 Weather: 50s, overcast
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS 372</u>		
Latitude/Northing(Y): <u>190939.412</u>			Longitude/Easting(X): <u>1277038.908</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1052</u>	<u>0.1</u>	<u>25</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS 372</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble gravel <u>sand (F M C)</u> silt clay	<u>brown surface</u> drab olive <u>brown</u> gray black	<u>none</u> slight moderate strong	petroleum other:	<u>moderate amount of orange pockets,</u> <u>no RPD visible</u>

GRAB DATA		Location ID: <u>SS 426</u>		
Latitude/Northing(Y): <u>190047.19</u>			Longitude/Easting(X): <u>1278710.464</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1135</u>	<u>0.5</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS 426</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble <u>gravel</u> <u>sand (F M C)</u> silt clay	<u>brown surface</u> drab olive <u>brown</u> dark gray black	<u>none</u> slight moderate strong	petroleum other:	<u>lots of orange pockets,</u> <u>worm tubes</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DUWAMISH Project no: PDI Sediment sampling (Phase 1)

Date: 6/24/20 Weather: 60°, cloudy

Sampling Method: GRAVITY CD or hand-collected Crew: PJ, MD, TD, CD

GRAB DATA		Location ID: SS <u>370 371</u>		
Latitude/Northing(Y): <u>191122.68</u>		Longitude/Easting(X): <u>1276983.60</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1017</u>	<u>5.42</u>	<u>28.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>370 371</u>		
Pre-homogenization analyses (circle): <u>VOC</u> Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>organic material</u> <u>(photo of homogenized sample not taken)</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: SS		
Latitude/Northing(Y):		Longitude/Easting(X):		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: LDW20-SS		
Pre-homogenization analyses (circle): <u>VOC</u> Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>organic material</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

CD
062920

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DUWOMISH Project no.: PDI Sediment sampling (Phase 1)

Date: 6/29/20 Weather: 60°, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected Crew: PS, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: SS <u>373</u>		
Latitude/Northing(Y): <u>190729.56</u>		Longitude/Easting(X): <u>1276570.91</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1029</u>	<u>3.38</u>	<u>20.5</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: LDW20-SS <u>373</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>Trace organic material and worm tubes</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: SS <u>375</u>		
Latitude/Northing(Y): <u>190610.21</u>		Longitude/Easting(X): <u>1276674.65</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1040</u>	<u>8.80</u>	<u>28</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: LDW20-SS <u>375</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>Trace plant debris, organic material</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOCA - DOWMAN SH

Project no: PDI Sediment sampling (Phase 1)

Date: 6/29/20

Weather: 60s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PJ, MD, TD, CD

QUALITY

GRAB DATA		Location ID: SS <u>376</u>		
Latitude/Northing(Y): <u>190782.81</u>		Longitude/Easting(X): <u>1277046.08</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1108</u>	<u>10.70</u>	<u>35</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: LDW20-SS <u>376</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None visible</u> <u>Filamentous algae, organic material</u>
gravel	drab olive	slight	petroleum	
sand (F/M C)TR	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

CD 062920

GRAB DATA		Location ID: SS		
Latitude/Northing(Y):		Longitude/Easting(X):		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA				
Sample ID: LDW20-SS				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None visible</u> <u>Filamentous Algae, organic material</u>
gravel	drab olive	slight	petroleum	
sand (F/M C)TR	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOC4 - DUWENWEN

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/29/00

Weather: 80s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PJ, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: SS 378		
Latitude/Northing(Y): 190734.50		Longitude/Easting(X): 1277186.27		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1141	7.94	13	Y	
SAMPLE DATA				
Sample ID: LDW20-SS 378				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth 0-10 cm for other: _____ cm RPD: Not visible Shell fragments and plant debris
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: SS 382		
Latitude/Northing(Y): 190072.10		Longitude/Easting(X): 1276996.76		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
1334	3.71	7	N	
1338	2.89	11	Y	
SAMPLE DATA				
Sample ID: LDW20-SS 382				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth 0-10 cm for other: _____ cm RPD: Not visible Tree organic material
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt TR	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY Project no.: _____

Date: 6/18/20 Weather: 70s, sunny

Sampling Method: power grab Crew: EP, KG, JH, RM

GRAB DATA		Location ID: <u>SS379</u>		
Latitude/Northing(Y): <u>190614.018</u>		Longitude/Easting(X): <u>1277342.992</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1350</u>	<u>1.2</u>	<u>15</u>	<u>N</u>	<u>rip rap in grab, sample not level</u>
<u>1407</u>	<u>1.3</u>	<u>18</u>	<u>Y</u>	<u>rip rap throughout grab</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS379</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <u>sand (F M C)</u> silt clay	<u>brown surface</u> drab olive <u>brown</u> gray black	<u>none</u> slight moderate strong H ₂ S petroleum other:		<u>orange pockets, leaves + sticks, algae</u> <u>no RPD visible</u>

GRAB DATA		Location ID: <u>SS 388</u>		
Latitude/Northing(Y): <u>190053.817</u>		Longitude/Easting(X): <u>1277521.524</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1439</u>	<u>0.2</u>	<u>—</u>	<u>N</u>	<u>under penetrated</u>
<u>1447</u>	<u>0.2</u>	<u>18</u>	<u>Y</u>	<u>emergent vegetation growing at surface</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS388</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel <u>sand (F M C)</u> silt clay	<u>brown surface</u> drab olive <u>brown</u> gray black	<u>none</u> slight moderate strong H ₂ S petroleum other:		<u>roots of emergent,</u> <u>no RPD visible</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwanish AOCY Project no: _____

Date: 6/25/20 Weather: 60s, sunny

Sampling Method: power grab Crew: EP, ANN, JH, KM

GRAB DATA		Location ID: <u>SS383</u>		
Latitude/Northing(Y): <u>189892.45</u>		Longitude/Easting(X): <u>1277154.34</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0836</u>	<u>0.6</u>	<u>—</u>	<u>N</u>	<u>no recovery</u>
<u>0842</u>	<u>0.6</u>	<u>11</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS383</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<u>cobble</u> <u>gravel</u> <u>trace</u> <u>sand</u> (F)(M)(C) <u>silt</u> <u>clay</u>	<u>brown surface</u> <u>drab olive</u> <u>brown</u> <u>gray</u> <u>dark</u> <u>black</u>	<u>none</u> slight moderate strong		<u>RPD not visible</u> <u>twigs + orange pockets</u>

GRAB DATA		Location ID: <u>SS390</u>		
Latitude/Northing(Y): <u>189940.409</u>		Longitude/Easting(X): <u>1277561.101</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0907</u>	<u>1.8</u>	<u>13</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS390</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<u>cobble</u> <u>trace</u> <u>gravel</u> <u>sand</u> (F)(M)(C) <u>silt</u> <u>clay</u>	<u>brown surface</u> <u>drab olive</u> <u>brown</u> <u>gray</u> <u>black</u>	<u>none</u> slight moderate strong		<u>RPD not visible</u> <u>twigs, trash on top</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - DUWANISN

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/29/20

Weather: 60s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: P, S, MD, TD, CD

GRAVIM

GRAB DATA		Location ID: SS <u>384</u>		
Latitude/Northing(Y): <u>189862.04</u>		Longitude/Easting(X): <u>1277234.86</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1350</u>	<u>5.42</u> 1.9	<u>0</u>	<u>N</u>	<u>washed out</u>
<u>1352</u>	<u>1.9</u>	<u>16.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>384</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble gravel sand (F) (M) (C) <u>silt</u> clay	<u>brown surface</u> drab olive brown <u>gray</u> dark black	none slight moderate strong	<u>H₂S</u> Slight petroleum other:	Sample depth: <u>0-10</u> cm (or other: _____ cm) RPD: <u>Not distinguishable</u> <u>Lots of plant debris/organic material</u>

GRAB DATA		Location ID: SS <u>385</u>		
Latitude/Northing(Y): <u>190013.10</u>		Longitude/Easting(X): <u>1277224.75</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1400</u>	<u>3.38</u>	<u>0</u>	<u>N</u>	<u>washed out. Cobble in jaws</u>
<u>1402</u>	<u>3.51</u>	<u>11.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>385</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble <u>gravel</u> sand (F) (M) (C) silt clay	<u>brown surface</u> drab olive brown <u>gray</u> black	<u>none</u> slight moderate strong	H ₂ S petroleum other:	Sample depth: <u>0-10</u> cm (or other: _____ cm) RPD: <u>Not visible</u> <u>worms, shell fragments, brick fragments</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOC4 - DUWAMISH Project no.: PDI Sediment sampling (Phase 1)
 Date: 6/29/20 Weather: 60s, cloudy
 Sampling Method: Pneumatic grab sampler or hand-collected Crew: PJ, MO, TD, CD

GRAVITY

GRAB DATA		Location ID: SS <u>386</u>		
Latitude/Northing(Y): <u>190135.79</u>		Longitude/Easting(X): <u>1277404.82</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1415</u>	<u>4.92</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>386</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>< 0.5 cm</u> Plant material, organic material
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: SS <u>387</u>		
Latitude/Northing(Y): <u>190133.67</u>		Longitude/Easting(X): <u>1277635.51</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1427</u>	<u>6.04</u>	<u>18.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>387</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwamish AOC4 Project no: _____
 Date: 6/25/20 Weather: 60s, sunny
 Sampling Method: pinner grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>55389</u>		
Latitude/Northing(Y): <u>---</u>			Longitude/Easting(X): <u>---</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0931</u>	<u>1.5</u>	<u>---</u>	<u>N</u>	<u>washed out</u>
<u>0935</u>	<u>1.6</u>	<u>---</u>	<u>N</u>	<u>no recovery, stick in jaws</u>
<u>0940</u>	<u>1.6</u>	<u>---</u>	<u>N</u>	<u>stick in jaws</u>
SAMPLE DATA		Sample ID: <u>L0W20-55389 km no sample collected</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>55389 (cont.)</u>		
Latitude/Northing(Y): <u>190010.454</u>			Longitude/Easting(X): <u>1277625.924</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0948</u>	<u>1.4</u>	<u>15</u>	<u>Y</u>	<u>attempt 4</u>
SAMPLE DATA		Sample ID: <u>L0W20-55389</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	<u>sticks</u>
gravel	drab olive	slight	petroleum	<u>KPD not visible</u>
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	<u>Fishing net caught in jaws</u>
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10 cm)

Project Name: AOC4 - DUWAMISH

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/29/00

Weather: Fog, partly cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: PS, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: SS <u>391</u>		
Latitude/Northing(Y): <u>189844.16</u>		Longitude/Easting(X): <u>1277492.98</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1438</u>	<u>3.51</u>	<u>12</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>391</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth <u>(0-10 cm)</u> (or other: _____ cm) RPD: <u>Did not notice any</u> <u>Trace plant debris and organic</u> <u>material</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u> Trace	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: SS <u>370</u>		
Latitude/Northing(Y): <u>191190.51</u>		Longitude/Easting(X): <u>1276649.59</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1451</u>	<u>13.55</u>	<u>13.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: LDW20-SS <u>370</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth <u>(0-10 cm)</u> (or other: _____ cm) RPD: <u>Not noticeable</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u> Trace	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOCY Project no: _____

Date: 6/25/20 Weather: 70s, sunny

Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>SS392</u>		
Latitude/Northing(Y): <u>190428.25</u>			Longitude/Easting(X): <u>1277669.757</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1244</u>	<u>2.5</u>	<u>20</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS392</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	<u>woody debris</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS128</u>		
Latitude/Northing(Y): <u>196983.359</u>			Longitude/Easting(X): <u>1273970.373</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1327</u>	<u>1.8</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS128</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>Some algae</u> <u>sticks</u> <u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish A04 Project no: _____
 Date: 6/23/20 Weather: 60s, sunny
 Sampling Method: power grab Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>55401</u>		
Latitude/Northing(Y): <u>190407.198</u>			Longitude/Easting(X): <u>1278224.364</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1013</u>	<u>0.9</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-55401</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
<u>clay</u>	black			

GRAB DATA		Location ID: <u>55406</u>		
Latitude/Northing(Y): <u>190364.962</u>			Longitude/Easting(X): <u>1278306.529</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1031</u>	<u>1.9</u>	<u>-</u>	<u>N</u>	<u>rock in jaws</u>
<u>1034</u>	<u>1.5</u>	<u>-</u>	<u>N</u>	<u>sampler tipped over</u>
<u>1039</u>	<u>0.7</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-55406</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<u>cobble</u>	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u> <u>but debris on surface</u>
<u>gravel</u>	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 - Duwamish

Project no: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50s, cloudy

Sampling Method: (Pneumatic grab sampler) or hand-collected

Crew: PJ, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: <u>SS 403</u>		
Latitude/ <u>North</u> (Y): <u>190318.91</u>		Longitude/ <u>East</u> (X): <u>1278215.59</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0807</u>	<u>6.20</u>	<u>20.0</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 403</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None</u>
gravel	drab olive	slight	petroleum	
sand (<u>F</u> <u>M</u> <u>C</u>)	<u>brown</u>	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 402</u>		
Latitude/ <u>North</u> (Y): <u>190387.17</u>		Longitude/ <u>East</u> (X): <u>1278190.12</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0813</u>	<u>8.24</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 402</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>Algae and organic material</u>
<u>gravel</u>	drab olive	slight	petroleum	
sand (<u>F</u> <u>M</u> <u>C</u>)	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwamish AOC4 Project no: _____
 Date: 6/24/20 Weather: 60s, mostly cloudy
 Sampling Method: power grab Crew: CP, AM, JH, KM

GRAB DATA		Location ID: <u>SS404 (continued)</u>		
Latitude/Northing(Y): <u>190361.631</u>		Longitude/Easting(X): <u>1278244.267</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1111</u>	<u>2.8</u>	<u>21</u>	<u>Y</u>	<u>(attempt 4)</u>
SAMPLE DATA				
Sample ID: <u>LDW20-SS404</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
silt	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS407</u>		
Latitude/Northing(Y): <u>190297.913</u>		Longitude/Easting(X): <u>1278334.384</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1136</u>	<u>1.3</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA				
Sample ID: <u>LDW20-SS407</u>				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10cm)

Project Name: AOC4 - DUWUMISH

Project no.: PDI Sediment sampling (Phase 1)

Date: 6/30/20

Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected

Crew: BS, MD, TD, CD

GRAVITY

GRAB DATA		Location ID: <u>SS 408</u>		
Latitude/Northing(Y): <u>190261.47</u>		Longitude/Easting(X): <u>1278313.81</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0753</u>	<u>6.34</u>	<u>24.5</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 408</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
cobble	brown surface	<u>none</u>		Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None</u>
gravel	drab olive	slight	petroleum	
sand (F/M/C) <u>(M)</u>	<u>brown</u>	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS 405</u>		
Latitude/Northing(Y): <u>190313.09</u>		Longitude/Easting(X): <u>1278268.60</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0800</u>	<u>5.68</u>	<u>23.0</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS 405</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
cobble	brown surface	<u>none</u>		Sample depth: <u>0-10 cm</u> (or other: _____ cm) RPD: <u>None</u>
gravel	drab olive	slight	petroleum	
sand (F/M/C) <u>(M)</u>	<u>brown</u>	moderate	other:	
<u>(silt) Trace</u>	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Dunamich AOC4 Project no.: _____
 Date: 6/18/20 Weather: 70s, sunny
 Sampling Method: power grab Crew: EP, KG, JH, RM

GRAB DATA		Location ID: <u>SS 409</u>		
Latitude/Northing(Y): <u>190117.144</u>		Longitude/Easting(X): <u>1276141.953</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1036</u>	<u>0.0</u>	<u>22</u>	<u>Y</u>	<u>taken on dry land</u>
SAMPLE DATA		Sample ID: <u>LDW 20 - SS 409</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>lots of orange pockets,</u> <u>shell fragments</u> <u>no RPD visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	<u>black</u>			

GRAB DATA		Location ID: <u>SS 310</u>		
Latitude/Northing(Y): <u>193173.956</u>		Longitude/Easting(X): <u>1276489.841</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1119</u>	<u>0.7</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW 20 - SS 310</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>algae</u> <u>no RPD visible</u>
gravel	<u>drab olive</u>	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	<u>black</u>			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: AOC4 - DUWOMISH Project no: PDI Sediment sampling (Phase 1)

Date: 6/30/20 Weather: 50%, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected Crew: PS, MD, TD, CD

GRAVIM

GRAB DATA		Location ID: SS <u>410</u>		
Latitude/Northing(Y): <u>190351.51</u>		Longitude/Easting(X): <u>1278362.60</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0710</u>	<u>NR</u>	<u>Ø</u>	<u>N</u>	<u>Too much debris to collect sample w/in 10ft by boat</u>
<u>0713</u>	<u>0</u>	<u>10</u>	<u>Y</u>	<u>Hand sampled from mud bank, at water line >10ft. from target.</u>
SAMPLE DATA		Sample ID: LDW20-SS <u>410</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>Some wood fibers and organic materials.</u>
gravel	drab olive	slight	petroleum	
sand (F M C)	<u>brown</u>	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: SS <u>423</u> (<u>Re-occupy</u>)		
Latitude/Northing(Y): <u>190163.75</u>		Longitude/Easting(X): <u>12781620.58</u>		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0729</u>	<u>0</u>	<u>10</u>	<u>Y</u>	<u>Hand sampled, at waterline</u>
SAMPLE DATA		Sample ID: LDW20-SS <u>423</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	Sample depth <u>0-10 cm</u> (or other: _____ cm) RPD: <u>Not visible</u> <u>wood debris, plant debris, isolated packets of sheen</u>
<u>gravel</u>	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
<u>silt</u>	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: ADCU (Duwamish) Project no.: _____
 Date: 6/22/20 Weather: 60s, sunny
 Sampling Method: Hand collected Crew: PJ, MD, TD, CD

GRAB DATA		Location ID: <u>SS411</u>		
Latitude/Northing(Y): <u>190343.93</u>		Longitude/Easting(X): <u>1278411.72</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1035</u>	<u>~4.0 FT</u>	<u>10 cm</u>	<u>Y</u>	<u>Handcollected with bowl and spoon</u>
	<u>(in land above waterline)</u>			
SAMPLE DATA		Sample ID: _____		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>RPD Approximately 2cm</u> <u>Coarse OM. worms</u>
<u>gravel</u>	<u>drab olive</u>	<u>slight</u>	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	<u>moderate</u>	other:	
<u>silt</u>	<u>gray</u>	<u>strong</u>		
<u>clay</u>	<u>black</u>			

GRAB DATA		Location ID: _____		
Latitude/Northing(Y): _____		Longitude/Easting(X): _____		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: _____		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	
gravel	<u>drab olive</u>	<u>slight</u>	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	<u>moderate</u>	other:	
<u>silt</u>	<u>gray</u>	<u>strong</u>		
<u>clay</u>	<u>black</u>			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4 Project no: _____

Date: 6/25/20 Weather: 60s, Sunny

Sampling Method: power grab Crew: CP, AM, JH, XM

GRAB DATA		Location ID: <u>55413</u>		
Latitude/Northing(Y): _____		Longitude/Easting(X): _____		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1042</u>	<u>2.5</u>	<u>—</u>	<u>N</u>	<u>no recovery</u>
<u>1045</u>	<u>2.6</u>	<u>—</u>	<u>N</u>	<u>log in jaws, no recovery</u>
<u>1046</u>	<u>2.8</u>	<u>—</u>	<u>N</u>	<u>no recovery</u>
SAMPLE DATA		Sample ID: <u>no sample collected</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>55413 (cont.)</u>		
Latitude/Northing(Y): <u>1908²⁴⁰ 227.462</u>		Longitude/Easting(X): <u>1278416.955</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1055</u>	<u>2.7</u>	<u>19</u>	<u>Y</u>	<u>attempt 4</u>
SAMPLE DATA		Sample ID: <u>LOW20-55413</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10cm)

Project Name: AOC4 - DUWAMISH Project no: PDI Sediment sampling (Phase 1)

Date: 6/30/20 Weather: 50s, cloudy

Sampling Method: Pneumatic grab sampler or hand-collected Crew: PJ, MD, TD, CA

GRAVITY

GRAB DATA		Location ID: SS 414		
Latitude/Northing(Y): 190251.39		Longitude/Easting(X): 1278439.89		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
0737	7.19	29.5	Y	
SAMPLE DATA				
Sample ID: LDW20-SS 414				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth 0-10 cm (or other: _____ cm)
gravel	drab olive	slight	petroleum	RPD: Not visible
sand (F (M) C)	brown	moderate	other:	worm
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: SS 412		
Latitude/Northing(Y): 190299.57		Longitude/Easting(X): 1278405.92		
Grab time	Water depth (m or ft)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
0746	7.16	33.5	Y	
SAMPLE DATA				
Sample ID: LDW20-SS 412				
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	Sample depth 0-10 cm (or other: _____ cm)
gravel	drab olive	slight	petroleum	RPD: Not visible
sand (F (M) C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: AOC4 (Oswamish) Project no: _____

Date: 6/23/20 Weather: 70s, sunny

Sampling Method: Hand collected Crew: PJ, MA, TD, CD

GRAB DATA		Location ID: <u>SS415</u>		
Latitude/Northing(Y): <u>190287.82</u>		Longitude/Easting(X): <u>1278469.81</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1020</u>	<u>-1</u>	<u>10cm</u>	<u>Y</u>	<u>coordinates collected @ 1016 when core was collected</u>
SAMPLE DATA		Sample ID: <u>LDW20-SS415</u>		
Pre-homogenization analyses (circle): VOC Sulphides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type cobble gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	Sediment color <input checked="" type="checkbox"/> brown surface drab olive brown <input checked="" type="checkbox"/> gray dark black	Sediment odor <input checked="" type="checkbox"/> none slight moderate strong	H ₂ S petroleum other:	Comments: <u>RPD approximately 25cm</u> <u>Worms</u> <u>Hand collected with bowl and spoon</u>

GRAB DATA		Location ID: _____		
Latitude/Northing(Y): _____		Longitude/Easting(X): _____		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: _____		
Pre-homogenization analyses (circle): VOC Sulphides Ammonia AVS/SEM TPH-P Other: _____				
Sediment type cobble gravel sand (F M C) silt clay	Sediment color brown surface drab olive brown gray black	Sediment odor none slight moderate strong	H ₂ S petroleum other:	Comments: <u>NO DATA 6/23/20</u>

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Ovumish AOCY Project no: _____

Date: 6/25/20 Weather: 60s, sunny

Sampling Method: power grab Crew: CP, AM, JH, KM

GRAB DATA		Location ID: <u>SS416</u>		
Latitude/Northing(Y): <u>190248.186</u>			Longitude/Easting(X): <u>1278513.126</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1111</u>	<u>0.2</u>	<u>15</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS416</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<input checked="" type="checkbox"/> cobble <u>trace</u>	<input checked="" type="checkbox"/> brown surface	<input checked="" type="checkbox"/> none	H ₂ S	<u>garbage - glass v metal, brick pieces,</u> <u>worms</u> <u>RPD not visible</u>
<input checked="" type="checkbox"/> gravel	<input checked="" type="checkbox"/> drab olive	<input type="checkbox"/> slight	petroleum	
<input checked="" type="checkbox"/> sand (F/M/C)	<input checked="" type="checkbox"/> brown	<input type="checkbox"/> moderate	other:	
<input checked="" type="checkbox"/> silt	<input checked="" type="checkbox"/> gray	<input type="checkbox"/> strong		
<input checked="" type="checkbox"/> clay	<input type="checkbox"/> black			

GRAB DATA		Location ID: <u>SS418</u>		
Latitude/Northing(Y): <u>190221.344</u>			Longitude/Easting(X): <u>1278532.27</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1132</u>	<u>0.5</u>	<u>19</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS418</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
<input type="checkbox"/> cobble	<input checked="" type="checkbox"/> brown surface	<input checked="" type="checkbox"/> none	H ₂ S	<u>RPD not visible</u> <u>poockets of orange</u>
<input type="checkbox"/> gravel	<input checked="" type="checkbox"/> drab olive	<input type="checkbox"/> slight	petroleum	
<input checked="" type="checkbox"/> sand (F/M/C)	<input checked="" type="checkbox"/> brown	<input type="checkbox"/> moderate	other:	
<input checked="" type="checkbox"/> silt	<input checked="" type="checkbox"/> gray	<input type="checkbox"/> strong		
<input type="checkbox"/> clay	<input type="checkbox"/> black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

Project Name: Dunamish AOC4 Project no: _____

Date: 6/25/20 Weather: 70s, sunny

Sampling Method: hand collected Crew: EP, AM, JH, KM

GRAB DATA		Location ID: <u>55419</u>		
Latitude/Northing(Y): <u>190213</u>			Longitude/Easting(X): <u>1278559</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1200</u>	<u>-1.2</u>	<u>10</u>	<u>Y</u>	<u>collected 2 ft N of core location</u>
SAMPLE DATA		Sample ID: <u>LDW20-55419</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
<input type="checkbox"/> cobble <input checked="" type="checkbox"/> gravel <input type="checkbox"/> sand (F M C) <input type="checkbox"/> silt <input type="checkbox"/> clay	<input checked="" type="checkbox"/> brown surface <input type="checkbox"/> drab olive <input type="checkbox"/> brown <input type="checkbox"/> gray <input type="checkbox"/> black	<input checked="" type="checkbox"/> none <input type="checkbox"/> slight <input type="checkbox"/> moderate <input type="checkbox"/> strong	<input type="checkbox"/> H ₂ S <input type="checkbox"/> petroleum <input type="checkbox"/> other:	<u>RPD not visible</u> <u>Brick pieces, glass pieces</u> <u>algae on top</u>

GRAB DATA		Location ID: _____		
Latitude/Northing(Y): _____			Longitude/Easting(X): _____	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
SAMPLE DATA		Sample ID: _____		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
<input type="checkbox"/> cobble <input type="checkbox"/> gravel <input type="checkbox"/> sand (F M C) <input type="checkbox"/> silt <input type="checkbox"/> clay	<input type="checkbox"/> brown surface <input type="checkbox"/> drab olive <input type="checkbox"/> brown <input type="checkbox"/> gray <input type="checkbox"/> black	<input type="checkbox"/> none <input type="checkbox"/> slight <input type="checkbox"/> moderate <input type="checkbox"/> strong	<input type="checkbox"/> H ₂ S <input type="checkbox"/> petroleum <input type="checkbox"/> other:	_____ _____ _____

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: DuWamish AOC4 Project no: _____

Date: 6/26/20 Weather: 70s, sunny

Sampling Method: power grab Crew: EP, KG, JH, KM

GRAB DATA		Location ID: <u>SS420</u>		<u>1278511.867</u>
Latitude/Northing(Y): <u>km 1278511.867</u>		<u>190172.709</u>	Longitude/Easting(X): <u>190172.709 km</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1320</u>	<u>1.8</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS420</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u> <u>partial</u>	<u>none</u>	H ₂ S	<u>Surface algae</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F)(M)(G)	<u>brown</u>	moderate	other:	<u>RPD not visible</u>
silt	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS380</u>		
Latitude/Northing(Y): <u>12 km 190534.824</u>		Longitude/Easting(X): <u>1277368.509</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1344</u>	<u>1.6</u>	<u>—</u>	<u>N</u>	<u>washed out & winnowed</u>
<u>1350</u>	<u>1.6</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20-SS380</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	Comments:	
cobble	<u>brown surface</u> <u>km</u>	<u>none</u>	H ₂ S	<u>RPD not visible</u>
gravel	drab olive	slight	petroleum	
<u>sand</u> (F)(M)(G)	<u>brown</u>	moderate	other:	
silt	<u>gray</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwinish AOCY Project no: _____
 Date: 6/17/20 Weather: 60s, partly sunny
 Sampling Method: power grab Crew: EP, AM, JH, RM

GRAB DATA		Location ID: <u>SS421</u>		
Latitude/Northing(Y): <u>+90 RM 189968.173</u>		Longitude/Easting(X): <u>1278418.893</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1157</u>	<u>1.5</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS421</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other:				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
cobble <input checked="" type="checkbox"/> gravel <input checked="" type="checkbox"/> sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive <input checked="" type="checkbox"/> brown <input checked="" type="checkbox"/> gray black	<input checked="" type="checkbox"/> none slight moderate strong	petroleum other:	- photo of grab taken after scooping - plastic + metal debris (garbage) - shell fragments, leaf debris no RPD visible

GRAB DATA		Location ID: <u>SS325</u>		
Latitude/Northing(Y): <u>193666.318</u>		Longitude/Easting(X): <u>1276055.15</u>		
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1301</u>	<u>2.5</u>	<u>30</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LDW20 - SS325</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H ₂ S	Comments:
cobble gravel sand (F M C) <input checked="" type="checkbox"/> silt clay	<input checked="" type="checkbox"/> brown surface drab olive <input checked="" type="checkbox"/> brown <input checked="" type="checkbox"/> gray black	<input checked="" type="checkbox"/> none slight moderate strong	petroleum other:	grab photo taken after scooping no visible

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duwamish AOC4

Project no: _____

Date: 6/26/20

Weather: 60s, Sunny

Sampling Method: power grab

Crew: EP, KG, JH, XM

GRAB DATA		Location ID: <u>SS423</u>		
Latitude/Northing(Y): _____			Longitude/Easting(X): _____	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0819</u>	<u>2.7</u>	<u>—</u>	<u>N</u>	<u>Wood in jaws</u>
<u>0824</u>	<u>2.6</u>	<u>—</u>	<u>N</u>	<u>no recovery</u>
<u>0834</u>	<u>2.7</u>	<u>—</u>	<u>N</u>	<u>no recovery</u>
SAMPLE DATA		Sample ID: <u>no sample collected</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS423 (cont)</u>		
Latitude/Northing(Y): _____			Longitude/Easting(X): _____	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0837</u>	<u>2.7</u>	<u>—</u>	<u>N</u>	<u>no recovery</u>
SAMPLE DATA		Sample ID: <u>no sample collected</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	none	H ₂ S	
gravel	drab olive	slight	petroleum	
sand (F M C)	brown	moderate	other:	
silt	gray	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10cm)

Project Name: Duvalamish AOC4 Project no: _____
 Date: ^{VM} 6/25/20 6/26/20 Weather: 60s, Sunny
 Sampling Method: power grab Crew: EP, KG, JH, FM

GRAB DATA		Location ID: <u>SS424</u>		
Latitude/Northing(Y): <u>190104.52</u>			Longitude/Easting(X): <u>1278646.49</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0846</u>	<u>1.9</u>	<u>23</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS424</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>	petroleum	<u>RPD not visible</u>
gravel	drab olive	slight	other:	
<u>sand</u> (F M C)	<u>brown</u>	moderate		
<u>silt</u>	<u>gray</u>	strong		
clay	black			

GRAB DATA		Location ID: <u>SS268</u>		
Latitude/Northing(Y): <u>193607.116</u>			Longitude/Easting(X): <u>1276431.315</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>0914</u>	<u>2.5</u>	<u>17</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS268</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>	petroleum	<u>RPD not visible</u> <u>clam shells</u>
gravel	drab olive	slight	other:	
<u>sand</u> (F M C)	<u>brown</u>	moderate		
<u>silt</u>	<u>gray</u> <u>dark</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM

(0-10 cm)

Project Name: Duwamish AOC4

Project no.: _____

Date: 6/23/20

Weather: 70s, Sunny

Sampling Method: power grab

Crew: EP, AM, JM, KM

GRAB DATA		Location ID: SS418 ^{Km} <u>SS425</u>		
Latitude/Northing(Y): <u>1278665.691</u>			Longitude/Easting(X): <u>190052.903</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1119</u>	<u>0.1</u>	<u>-</u>	<u>N</u>	<u>winnowed; loss of fines</u>
<u>1121</u>	<u>0.2</u>	<u>-</u>	<u>N</u>	<u>overpenetrated + winnowed on sides</u>
<u>1124</u>	<u>0.2</u>	<u>21</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS425</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	brown surface	<u>none</u>	H ₂ S	<u>pockets of orange, amphipods</u>
gravel	drab olive	slight	petroleum	
<u>sand (F)(M)(C)</u>	<u>brown</u>	moderate	other:	
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS206</u>		
Latitude/Northing(Y): <u>195652.625</u>			Longitude/Easting(X): <u>1275696.416</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1241</u>	<u>4.5</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOW20-SS206</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor		Comments:
cobble	<u>brown surface</u>	<u>none</u>	H ₂ S	<u>worms</u>
gravel	drab olive	slight	petroleum	
<u>sand (F)(M)(C)</u>	brown	moderate	other:	
<u>silt</u>	<u>gray</u> <u>1c/16</u>	strong		
clay	black			

SURFACE SEDIMENT COLLECTION FORM



SURFACE SEDIMENT COLLECTION FORM (0-10 cm)

Project Name: Duwamish AOCY Project no: _____

Date: 6/26/20 Weather: 70s, sunny

Sampling Method: power grab Crew: EP, KG, JH, KM

GRAB DATA		Location ID: <u>SS427</u>		
Latitude/Northing(Y): <u>189987.849</u>			Longitude/Easting(X): <u>1278724.787</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1234</u>	<u>1.3</u>	<u>—</u>	<u>N</u>	<u>sticks in jaws + insufficient penetration</u>
<u>1239</u>	<u>1.5</u>	<u>22</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOWZO-SS427</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		<u>Surface algae</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	<u>RPD not visible</u>
<u>silt</u>	gray	strong		
clay	black			

GRAB DATA		Location ID: <u>SS422</u>		
Latitude/Northing(Y): <u>190086.797</u>			Longitude/Easting(X): <u>1278602.021</u>	
Grab time	Water depth (m)	Penetration depth (cm)	Acceptable grab (Y/N)	Comments
<u>1301</u>	<u>1.9</u>	<u>24</u>	<u>Y</u>	
SAMPLE DATA		Sample ID: <u>LOWZO-SS422</u>		
Pre-homogenization analyses (circle): VOC Sulfides Ammonia AVS/SEM TPH-P Other: <u>NA</u>				
Sediment type	Sediment color	Sediment odor	H₂S	Comments:
cobble	<u>brown surface</u>	<u>none</u>		<u>Surface algae</u>
gravel	drab olive	slight	petroleum	
<u>sand (F M C)</u>	<u>brown</u>	moderate	other:	<u>RPD not visible</u>
<u>silt</u>	<u>gray</u>	strong		
clay	black			

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/25/20
 Weather: 70s, partly cloudy
 Logged By: C. Durand

Location ID: SC100
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 197776.85

Long/Easting: 1273807.83

A. Water Depth
 DTM Depth Sounder: 16.74 ft
 DTM Lead Line: _____ ft

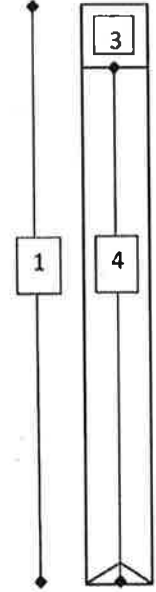
B. Water Level Measurements
 Time: 13:21
 Height: -0.40 ft
 Source: RTK tide station

C. Mudline Elevation
 -17.14 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 56 ft / (in) 142.2 cm
3. Headspace Measurement: 5 in / (in) 12.7 cm
4. Recovery Depth: 55 ft / (in) 194.0 cm 139.7 cm
5. Recovery Percentage: 98.2
6. Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:
 Drove freely to depth

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Very dark grey/black silty core
 Woody debris / wet at top 15cm

Notes:
 Gravity vibracore

Project: 1004 - Duwamish
 Date: 6/2/20
 Weather: Sols, partly sunny
 Logged By: KM

Location ID: SC101
 Attempt No.: 7
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:
 Lat/Northing: 1273252.75

Long/Easting: 197671.86

A. Water Depth
 DTM Depth Sounder:
 DTM Lead Line: 12.2 ft

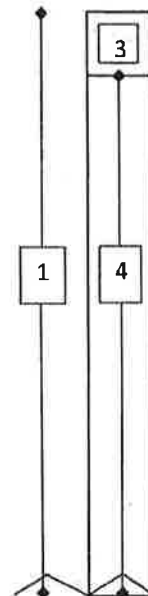
B. Water Level Measurements
 Time: 0832
 Height: 0.97 ft
 Source: RTK tide station

C. Mudline Elevation (ft MLLW)
-11.23

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 4.3 ft
3. Headspace Measurement: 1.5 ft
4. Recovery Measurement: 3.5 ft 106.7 cm
5. Recovery Percentage: ~~80.8%~~ 81.4%
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: TD refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Moist top 7 cm, silt, dk gray.
Woody debris at 28cm.
Fine sand and silt, dk gray to depth

Notes:

Gravity vibrocorer

Project: AOCY-DUWAMISH
Date: 6/2/20
Weather: SCS, partly sunny
Logged By: KM

Location ID: SC102
Attempt No.: 5
Core Type: Intertidal Subtidal Shoaling
Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:
Lat/Northing: 127 3578.45

Long/Easting: 197714.44

A. Water Depth
DTM Depth Sounder:
DTM Lead Line: -18.8 ft

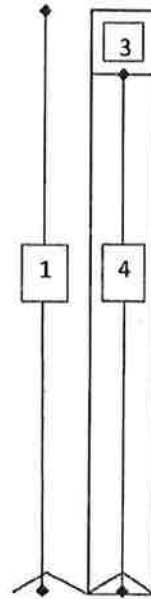
B. Water Level Measurements
Time: 0905
Height: 0.75 ft
Source: RTK tide station

C. Mudline Elevation (ft MLLW)
-17.25

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 ft
- 2. Drive Length: km 5 ft 4.7 ft
- 3. Headspace Measurement: km 1.1 ft
- 4. Recovery Measurement: km 0 ft 152.4 cm 3.9 ft, 118.1 cm
- 5. Recovery Percentage: km 0 83.0 %
- 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive full core length freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dk gray silt to depth w/ trace sand

Top 10 cm moist silt w/ trace sand

Notes:

brnly silty

Sediment Core Collection Form

Project: AOC4 - Duwanish
Date: 6/25/20
Weather: 70% partly cloudy
Logged By: C Durand

Location ID: SC103
Attempt No.: 1
Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
Field Staff: PT, MD, TD, CD

Field Collection Coordinates:
Lat/Northing: 197664.51

Long/Easting: 1273332.72

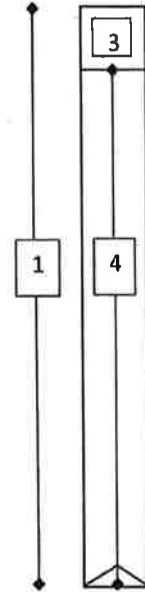
A. Water Depth
 DTM Depth Sounder: 16.97 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1312
 Height: -0.16 ft
 Source: RTK tide station

C. Mudline Elevation
 -17.03 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 Feet
 2. Penetration Depth: 56 ft (142.2 cm)
 3. Headspace Measurement: 11.5 in
 4. Recovery Depth: 48.5 ft (123.2 cm)
 5. Recovery Percentage: 86.6
 6. Core Accepted: Yes No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:
 Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Very dark grey silt
 Top 18cm dark olive brown/grey, wet
 no odor

Notes:
 Corals in core

Project: AOC4 - Duwamish

Location ID: SC104

Date: 6/25/20

Attempt No.: 1

Weather: 70% partly cloudy

Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling

Logged By: J Murard

Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 197656.53

Long/Easting: 197656.5 1273450.66

A. Water Depth

DTM Depth Sounder: 17.16 ft

DTM Lead Line: ft

B. Water Level Measurements

Time: 1300

Height: 0.11 ft

Source: RTK tide station

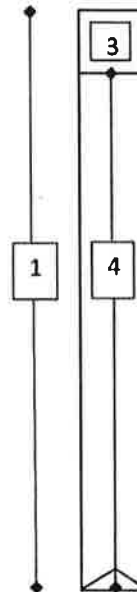
C. Mudline Elevation

- 17.05 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 feet
- 2. Penetration Depth: 28 ft (in) 71.1 cm
- 3. Headspace Measurement: 33.5 in
- 4. Recovery Depth: 26.5 ft (in) 67.3 cm
- 5. Recovery Percentage: 94.6
- 6. Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-2cm - SILT, fine sand, brown, wet

2cm - 5cm - SILT Fine sand, dark grey, moist wood debris (twigs)

5cm - 45cm - SILT, fine sand, gray, trace shell hash

Notes:

45cm - 55cm - silt, fine sand, olive, moist

Gravity: unbraced

Project: MACY-Duwamish
 Date: 6/2/20
 Weather: Ses, cloudy
 Logged By: KM

Location ID: IT105
 Attempt No.: 4
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: TD, LM, PJ, JS

Field Collection Coordinates:

Lat/Northing: 1273347.78

Long/Easting: 197441.63

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 3.8 ft

B. Water Level Measurements

Time: 1132
 Height: 3.76
 Source: RTK tide station

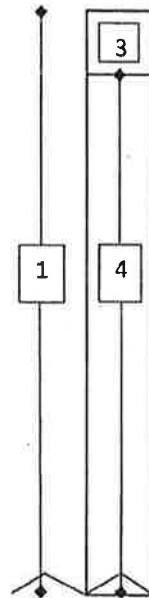
C. Mudline Elevation (ft MLLW)

-0.04

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 3.5 ft
3. Headspace Measurement: 2.1 ft
4. Recovery Measurement: 2.9 ft 88.4 cm
5. Recovery Percentage: 89.9%
6. Core Accepted: Yes No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

To refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Moist 0-10 cm, dk gray silt w/ sand
15-30 cm, isolated shell frag & wood debris
sand visible past 50 cm, brown

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: ACC4-Duwamish
Date: 6/2/20
Weather: Sky cloudy
Logged By: K. McPeak

Location ID: IT106
Attempt No.: Run 4 / (3 attempts on 6/1/20)
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: T. Do, K. McPeak, P. Jenkins, T. Schuotes

Field Collection Coordinates:
Lat/Northing: 12 733 85.77

Long/Easting: 197420.06

A. Water Depth
DTM Depth Sounder: -3.0 ft cm
DTM Lead Line: -3.0 ft

B. Water Level Measurements
Time: 0746
Height: 2.02 ft
Source: RTR tide station

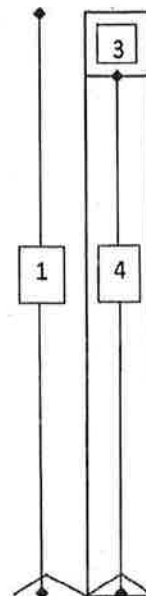
C. Mudline Elevation (ft MLLW)
-0.98 ft

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 3.3 ft
3. Headspace Measurement: 1.7 ft
4. Recovery Measurement: 3.3 ft 100.6 cm
5. Recovery Percentage: 100%
6. Core Accepted: (Yes) / No

Drive Notes: TO refusal



Core Sections To Process:

- A: _____
- B: _____
- CX: _____
- Z: _____

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Gravel to top 25 cm, moist silt & sand mixed in gravel in top 10 cm, rest of core brown sand & silt

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Duwemish
 Date: 6/24/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: IT107
 Attempt No.: 1
 Core Type: Inter tidal (0-45cm) > Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MO, TA, CD

Field Collection Coordinates:
 Lat/Northing: 197448.95

Long/Easting: 1273413.28

A. Water Depth

DTM Depth Sounder: 8.01 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 1020
 Height: 4.84 ft
 Source: RTK tide station

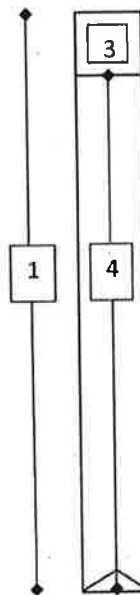
C. Mudline Elevation

- 3.12 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 30 ft/in) 76.2 cm
3. Headspace Measurement: 31 in
4. Recovery Depth: 29 ft/in) 73.7 cm
5. Recovery Percentage: 96.7
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drove to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

wet brown grey silt; 0-5cm
 Brown moist silt; 5-20cm
 Brown moist sand & silt; 20^m end of core.
 No odor through entire core

Notes:

Gravity vibro corer

Project: AOC4 - Downwash
 Date: 6/25/20
 Weather: 70s, partly cloudy
 Logged By: CPurand

Location ID: SC108
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 197556.91

Long/Easting: 1273551.62

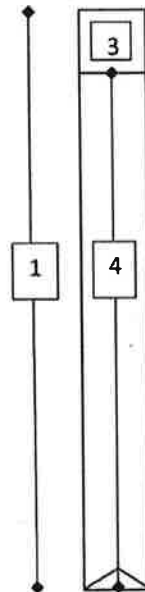
A. Water Depth
 DTM Depth Sounder: 17.36 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1253
 Height: 0.50 ft
 Source: RTK tide station

C. Mudline Elevation
 - 16.86 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
- Core Tube Length: 5 feet
 - Penetration Depth: 48 ft (in) 121.9 cm
 - Headspace Measurement: 16 in.
 - Recovery Depth: 44 ft (in) 111.8 cm
 - Recovery Percentage: 91.7
 - Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:
 Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 15cm - dark grey / olive brown silt, biota (worm), wet
 Remaining core - very dark grey silt
 2cm from top - 1cm horizon of very dark grey / black organic debris

Notes:
 Gravity vibrator

Sediment Core Collection Form

Project: 871004 - Oowamish
 Date: 6/1/20
 Weather: WS, Sunny
 Logged By: KM

Location ID: SC109
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: TD, KM, PJ, TS

Field Collection Coordinates:
 Lat/Northing: 1273586.21

Long/Easting: 197487.40

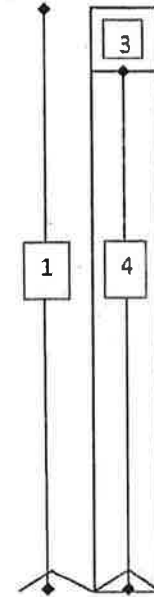
A. Water Depth
 DTM Depth Sounder:
 DTM Lead Line: 26.1 ft

B. Water Level Measurements
 Time: 1406
 Height: 8.87 ft
 Source: RTK tide station

C. Mudline Elevation (ft MLLW)
- 17.23

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 ft
 2. Drive Length: 4.2 ft
 3. Headspace Measurement: 1.25 ft
 4. Recovery Measurement: 3.75 ft 114.3 cm
 5. Recovery Percentage: 89.3 %
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: TD refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 10 cm used, dk gray, sand
Uniform dk gray silt to depth.

Notes:

Gravity vibrocorer

Project: AOC4 - Duwamish
 Date: 6/24/20
 Weather: 60s, cloudy
 Logged By: C. Durand

Location ID: TT110
 Attempt No.: 1
 Core Type: Intertidal(0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, TA, MD, CD

Field Collection Coordinates:
 Lat/Northing: 197368.12

Long/Easting: 1273472.17

A. Water Depth

DTM Depth Sounder: 5.35 ft
 DTM Lead Line: ft

B. Water Level Measurements

Time: 1032
 Height: 4.52 ft
 Source: RTK tide station

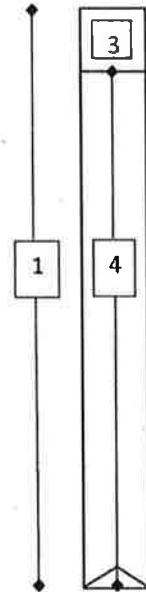
C. Mudline Elevation

- 0.83 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 46 ft (141) 116.8 cm
3. Headspace Measurement: 19 in.
4. Recovery Depth: 41 ft (125) 104.1 cm
5. Recovery Percentage: 91.1
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drove to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- Homogenous core: dark brown w/ fine multi-colored sand
- top few centimeters - very wet
- no odor

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - DOWAMISH
 Date: 6/25/20
 Weather: 70s, partly sunny
 Logged By: CDucard

Location ID: SC111
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MP, TD, CD

Field Collection Coordinates:
 Lat/Northing: 197393.76

Long/Easting: 1273582.25

A. Water Depth
 DTM Depth Sounder: 13.55 ft
 DTM Lead Line: _____ ft

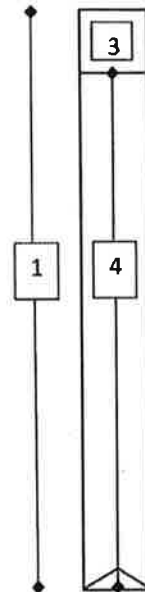
B. Water Level Measurements
 Time: 1243
 Height: 0.82 ft
 Source: RTK tide station

C. Mudline Elevation
 - 12.73 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 56 ft (in) 142.2 cm
3. Headspace Measurement: 5 in
4. Recovery Depth: 55 ft (in) 139.7 cm
5. Recovery Percentage: 98.2
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth.
 Current was strong

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10cm - Soft, silt, fine sand, wet, olive
 10-30cm - Coarse sand, dry, multi color
 Sand grains, no odor
 30-60cm - silt, fine sand, stiff, dense, no odor

Notes:

locally vibrated

Sediment Core Collection Form

Project: AOC4 - Duwanish
 Date: 6/24/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: IT112
 Attempt No.: 2
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: P.S, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 197281.35

Long/Easting: 1273531.51

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: -2.2 ft

B. Water Level Measurements

Time: 1119
 Height: 2.14 ft
 Source: RTK tide station

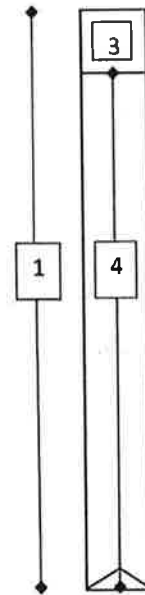
C. Mudline Elevation

- 0.06 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 Feet
2. Penetration Depth: 59 ft/in 149.9 cm
3. Headspace Measurement: 5 in
4. Recovery Depth: 55 ft/in 139.7 cm
5. Recovery Percentage: 93.2
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-75cm: Brown, moist, mostly silt, top 5-10cm very wet
 75cm - down: mostly medium-course sand, damp
 No odor

Notes:

Gravily inorganic

Project: AOC4-Duwamish
 Date: 6/1/20
 Weather: 60s, sunny
 Logged By: EM

Location ID: SC113
 Attempt No.: 3
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: ID, EM, PT, JS

Field Collection Coordinates:
 Lat/Northing: 1273593.00

Long/Easting: 197316.00

A. Water Depth
 DTM Depth Sounder:
 DTM Lead Line: -15.1 ft

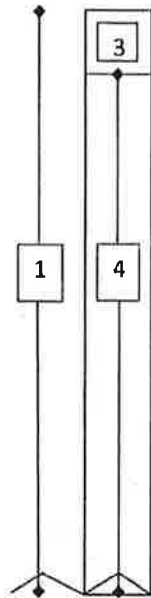
B. Water Level Measurements
 Time: 1441
 Height: 8.71 ft
 Source: RTK tide station

C. Mudline Elevation (ft MLLW)
-6.39

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5.1 ft
2. Drive Length: 3.2 ft
3. Headspace Measurement: 2.25 ft
4. Recovery Measurement: 2.75 ft 83.8 cm
5. Recovery Percentage: 85.9%
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A
- B:
- C
- Z:

Drive Notes: To refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

fine silt & sand, brown & gray

Notes:

Gravity vibrocorer

Project: AOC4 - Duwamish
 Date: 6/25/20
 Weather: 70s, partly cloudy
 Logged By: C. Durand

Location ID: SC114
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MP, TD, CD

Field Collection Coordinates:
 Lat/Northing: 197426.06

Long/Easting: 1273695.68

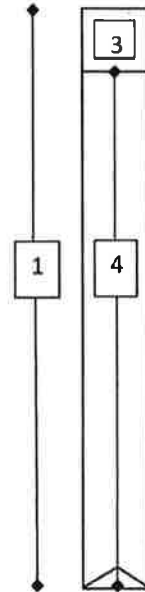
A. Water Depth
 DTM Depth Sounder: 16.31 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1329
 Height: -0.62 ft
 Source: RTK tide station

C. Mudline Elevation
 -16.93 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 Feet
 2. Penetration Depth: 56 ft (in) 142.2 cm
 3. Headspace Measurement: 12 in
 4. Recovery Depth: 48 ft (in) 121.9 cm
 5. Recovery Percentage: 85.7
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:
 Drove freely to depth

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

fine silt & sand, moist, homogeneous throughout, dark grey, no odor

Notes:
 Gravity in recovery

Sediment Core Collection Form

Project: AOC4 - Downemish
 Date: 6/25/20
 Weather: 70s, partly cloudy
 Logged By: C Durand

Location ID: SC115
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TH, CD

Field Collection Coordinates:
 Lat/Northing: 197341.62

Long/Easting: 1273704.48

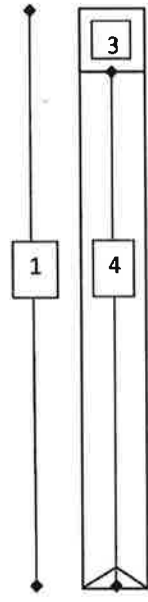
A. Water Depth
 DTM Depth Sounder: 17.00 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1340
 Height: -0.81 ft
 Source: RTK tide station

C. Mudline Elevation
 -17.81 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Penetration Depth: 42 ft (106.7 cm)
 3. Headspace Measurement: 20.5
 4. Recovery Depth: 39.5 ft (120.3 cm)
 5. Recovery Percentage: 94.0
 6. Core Accepted: Yes / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Drive to refusal.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 15cm - dark olive/gray silt, wet, woody debris, pebbles

Remaining core - very dark gray silt

some shell hash throughout

No odor

Notes:

Crashy is known

Project: AOC4 - Duwanish
 Date: 6/24/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: IT116
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 197243.83

Long/Easting: 1273629.22

A. Water Depth
 DTM Depth Sounder: 3.58 ft
 DTM Lead Line: ft

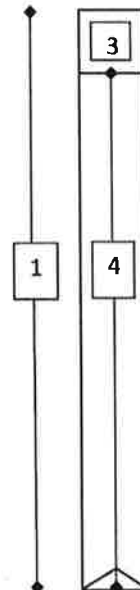
B. Water Level Measurements
 Time: 1126
 Height: CP, of 1.70 ft
 Source: RTK tide station

C. Mudline Elevation
 -1.88 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 42 ft/in, 106.7 cm
3. Headspace Measurement: 22 in
4. Recovery Depth: 38 ft/in, 96.5 cm
5. Recovery Percentage: 90.5
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove to refusal

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- 15
- (0-15) top 15 cm - medium brown wet silt
 - (15-45) next 30 cm - dark grey silt w/ fine multi-colored sand
 - (45-80) next 35 cm - dark grey silt
 - (80-15) bottom 15 cm - fine multi colored sand, dark grey silt, orange tint to sand
no odor

Notes:

Gravity invertebrates

Project: AOC4 - Duwamish
Date: 6/2/20
Weather: SWS, partly sunny
Logged By: KM

Location ID: SC117
Attempt No.: 1
Core Type: Intertidal (Subtidal) Shoaling
Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:

Lat/Northing: 1273794.85

Long/Easting: 197348.53

A. Water Depth

DTM Depth Sounder:
DTM Lead Line: 17.0ft

B. Water Level Measurements

Time: 0919
Height: 0.80ft
Source: RTK tide station

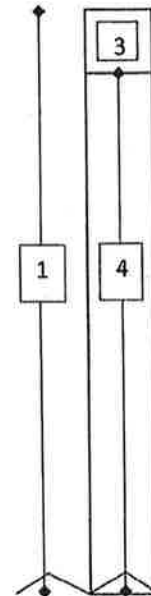
C. Mudline Elevation (ft MLLW)

- 16.2

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5ft
- 2. Drive Length: 4.3ft
- 3. Headspace Measurement: 1.3
- 4. Recovery Measurement: 3.7 ft 111.8 cm
- 5. Recovery Percentage: 86.0%
- 6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- CA: _____
- Z: _____

Drive Notes:

To refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Fine silt & sand, dk gray to depth

Notes:

Empty vibracore

Project: AOC4 - Duwamish
 Date: 6/25/20
 Weather: 70%, partly cloudy
 Logged By: CDurand

Location ID: SC118
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MP, TD, CD

Field Collection Coordinates:
 Lat/Northing: 197244.92

Long/Easting: 1273790.03

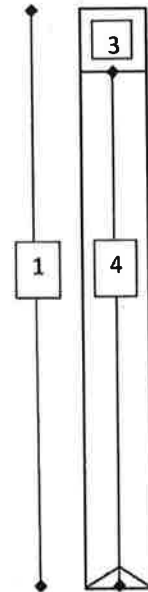
A. Water Depth
 DTM Depth Sounder: 16.01 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1358
 Height: -1.13 ft
 Source: RTK tide station

C. Mudline Elevation
 -17.14 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: 5 feet
 - Penetration Depth: 48 ft (in) 121.9 cm
 - Headspace Measurement: 16.5 in
 - Recovery Depth: 43.5 ft (in) 110.5 cm
 - Recovery Percentage: 90.6
 - Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Drove to refusal

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 6cm brown silt, silty wet fine sand
 rest of core is homogeneous, moist, trace hole worms

Notes:

Gravity vibracore

Project: AOC4 - Duwanish

Location ID: SC 119

Date: 6/25/20

Attempt No.: 1

Weather: Fog, partly cloudy

Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling

Logged By: CDurand

Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 197280.04

Long/Easting: 1273871.48

A. Water Depth

DTM Depth Sounder: 14.47 ft

DTM Lead Line: ft

B. Water Level Measurements

Time: 1406

Height: -1.13 ft

Source: RTK tide station

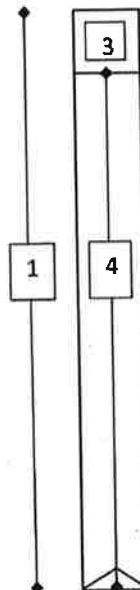
C. Mudline Elevation

- 15.60 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 feet
- 2. Penetration Depth: 48 ft (in) 12.69 cm
- 3. Headspace Measurement: 12.5 in
- 4. Recovery Depth: 47.5 ft (in) 120.7 cm
- 5. Recovery Percentage: 99.0
- 6. Core Accepted: Yes / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

no drive to refusal.
 W

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

significant
 top 60 cm - gravel, cobbles in top few centimeters
 - dark grey silt

Remaining core - very dark grey silt

Notes:

Coarsely vibracore

Project: AOC4 - Duwamish
 Date: 6/24/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: IT120
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 197121.31

Long/Easting: 1273740.11

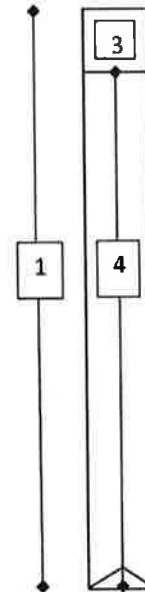
A. Water Depth
 DTM Depth Sounder: 2.76 ft
 DTM Lead Line: ft

B. Water Level Measurements
 Time: 1134
 Height: 1.70 ft
 Source: RTK tide station

C. Mudline Elevation
 - 1.06 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: 5 feet
 - Penetration Depth: 45 ft / 13.71 m
 - Headspace Measurement: 19 in
 - Recovery Depth: 41 ft / 12.50 m
 - Recovery Percentage: 91.1
 - Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drove to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-5cm: Wet light brown silts
 0-60cm: silts with sand, brown to dark brown
 60cm-down: Mostly medium to coarse sand with silt

Notes:

Gravity vibracorer

Project: AOCY-Duwamish
Date: 6/2/20
Weather: SWS, partly sunny
Logged By: KM

Location ID: SC121
Attempt No.: 2
Core Type: Intertidal (Subtidal) Shoaling
Field Staff: ID, KM, PT, JS

Field Collection Coordinates:
Lat/Northing: 1273800.86

Long/Easting: 197126.37

A. Water Depth

DTM Depth Sounder:
DTM Lead Line: 8.3ft

B. Water Level Measurements

Time: 0942
Height: 1.00 ft
Source: RTR tide station

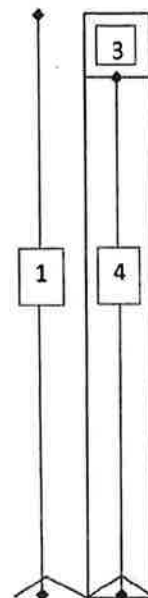
C. Mudline Elevation (ft MLLW)

- 7.3

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 ft
- 2. Drive Length: 4.0 ft
- 3. Headspace Measurement: 2.0 ft
- 4. Recovery Measurement: 3.0 ft 91.4 cm
- 5. Recovery Percentage: 75%
- 6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: TO refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-5 cm, moist silt, dk gray, shell wash at ~10 cm
~10-30 cm, sand, brown
> 30 cm, silt, dk gray

Notes:

Gravity vibra corer

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/27/20
 Weather: 70s partly cloudy
 Logged By: Curand

Location ID: SC128
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: P.S, M.A, T.A, C.D

Field Collection Coordinates:
 Lat/Northing: 197159.36

Long/Easting: 1273869.61

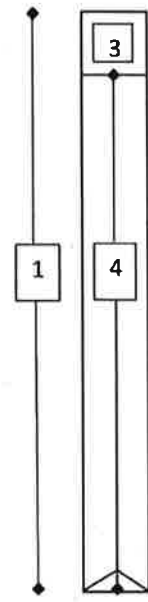
A. Water Depth
 DTM Depth Sounder: 15.88 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1421
 Height: -1.33 ft
 Source: RTK tide station

C. Mudline Elevation
 - 17.21 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: 5 feet
 - Penetration Depth: 45 ft / 114.3 cm
 - Headspace Measurement: 22.5 in
 - Recovery Depth: 37.5 ft / 95.3 cm
 - Recovery Percentage: 83.3
 - Core Accepted: (Yes) / No



- Core Sections To Process:
- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
 Drove freely to depth

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

top 20 cm - organic matter - woody debris - net
 - dark olive grey, silt
 remaining core - dark olive grey, silt

Notes:
 Corer vibrated

Project: 1004 - Dowamish
 Date: 6/12/20
 Weather: Sos mostly cloudy
 Logged By: KM

Location ID: SC123
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:
 Lat/Nothing: 1 27 39.2.03

Long/Easting: 197 206.07

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 19.3 ft

B. Water Level Measurements

Time: 1047
 Height: 232 ft
 Source: RTR tide station

C. Mudline Elevation (ft MLLW)

-16.98

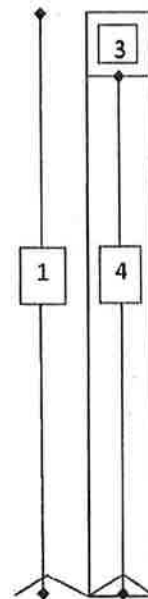
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 4.5 ft
3. Headspace Measurement: 0.9 ft
4. Recovery Measurement: 4.1 ft 125.0 cm
5. Recovery Percentage: 91.1%
6. Core Accepted: (Yes) / No

Drive Notes:

Drive 4.5 ft. freely



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Moist 0-10 cm, dk gray silt
dk gray silt to depth

Notes:

Gravity observations

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/24/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: IT 124
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PT, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 197013.88

Long/Easting: 1273836.61

A. Water Depth

DTM Depth Sounder: ft
 DTM Lead Line: 0.0 ft

B. Water Level Measurements

Time: 1210
 Height: 0.09 ft
 Source: RTK tide station

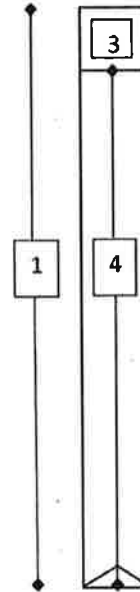
C. Mudline Elevation

+0.09 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 56 ft / 17.1 m
3. Headspace Measurement: 11 in
4. Recovery Depth: 49 ft / 15.0 m
5. Recovery Percentage: 87.5
6. Core Accepted: Yes No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

top 12 cm - dark grey/brown silt, some small anthropogenic debris (plastic)
 all of remaining core is dark grey silt w/ fine multi-colored sand
 no odor

Notes:

Gravity increment

Project: A03 AOC4 - Duwamish
 Date: 6/2/20
 Weather: SDs, mostly cloudy
 Logged By: KM

Location ID: SC125
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:

Lat/Northing: 1273949.96
1273949.96

Long/Easting: 197083.40

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 19.7 ft

B. Water Level Measurements

Time: 1059
 Height: 2.59 ft
 Source: RTK tide station

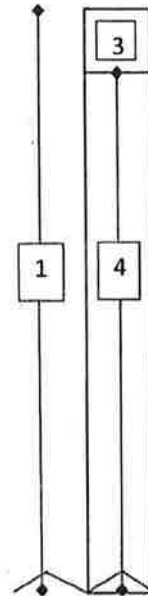
C. Mudline Elevation (ft MLLW)

-17.11

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 4.7 ft
3. Headspace Measurement: 0.8 ft
4. Recovery Measurement: 4.2 ft 128.0 cm
5. Recovery Percentage: 89.4%
6. Core Accepted: Yes No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drove freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Moist 0-10 cm, dk gray silt
dk gray silt to depth

Notes:

Gravity vibracore

Project: AOC4 - Dowdumish

Location ID: SC126

Date: 6/25/20

Attempt No.: 1

Weather: 60s, cloudy / partly cloudy

Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling

Logged By: CDurand

Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 197148.93

Long/Easting: 1273997.45

A. Water Depth

DTM Depth Sounder: 25.66 ft

DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0820

Height: 9.77 ft

Source: RTK tide station

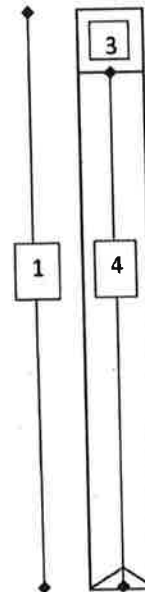
C. Mudline Elevation

- 15.89 (ft MLLW)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 58 ft / (in) 147.3 cm
3. Headspace Measurement: 3.5 in
4. Recovery Depth: 56.5 ft / (in) 143.5 cm
5. Recovery Percentage: 97.4
6. Core Accepted: (Yes / No)

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Homogenous dark grey silt w/ fine sand
gravel in top 15cm

Notes:

Gravity vibrocorer

Sediment Core Collection Form

Project: AOEY-Duwamish
 Date: 6/2/20
 Weather: 60% cloudy
 Logged By: KM

Location ID: IT127
 Attempt No.: 5
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: T.P., KM, P.J., JS

Field Collection Coordinates:
 Lat/Northing: 1773910.45

Long/Easting: 196938.56

A. Water Depth
 DTM Depth Sounder:
 DTM Lead Line: - 8.5 ft

B. Water Level Measurements
 Time: 1328
 Height: +6.6 ft
 Source: RTR tide station

C. Mudline Elevation (ft MLLW)
- 0.84

Recovery Measurements (prior to cuts)

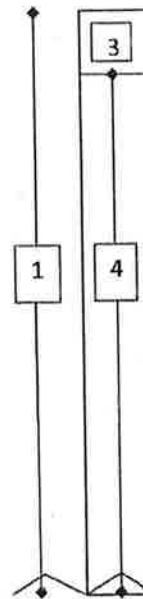
Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 4 ft
3. Headspace Measurement: 2.9 ft
4. Recovery Measurement: 2.1 ft 64.0 cm
5. Recovery Percentage: 57.5%
6. Core Accepted: (Yes) No

Talked to Steve, decided to keep core, processing TBD, will be a field derivation

Drive Notes:

Will not do recovery correction for this core. Recovery is due to refusal and not compaction. (Per conversation w/ Anchor)



Core Sections To Process:

- A:
- B:
- C:
- Z:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

*bottom surface silt to 5cm
 5 cm - dk gray silt, moist to ~15cm
 Fine sand, dk brown to depth.*

Notes:

Gravels, silt covered

Project: AOC4 - Downwash
 Date: 6/24/20
 Weather: 70s, cloudy
 Logged By: CDurand

Location ID: SC128
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PS, MP, TA, CD

Field Collection Coordinates:
 Lat/Northing: 196984.00

Long/Easting: 1273968.23

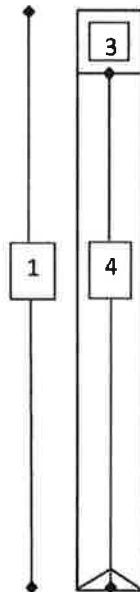
A. Water Depth
 DTM Depth Sounder: 5.71 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1303
 Height: -1.26 ft
 Source: RTK tide station

C. Mudline Elevation
 - 6.97 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 feet
 2. Penetration Depth: 34 ft / 10486.4 cm
 3. Headspace Measurement: 29 in
 4. Recovery Depth: 31 ft / 9753.7 cm
 5. Recovery Percentage: 91.2
 6. Core Accepted: Yes / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:
 Probe to refusal

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-50 cm: Gray silt and sand.
 50-55 cm: Orange-brown silt and sand
 65 cm - down: Dark brown med-coarse sand
 No odor
 Top 5 cm wet.

Notes:
 Gravity vibrator

Project: AOC4 - Duwamish
 Date: 6/25/20
 Weather: 70s, partly cloudy
 Logged By: CDurand

Location ID: SC129
 Attempt No.: 2
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 196992.11

Long/Easting: 1274065.20

A. Water Depth
 DTM Depth Sounder: 16.67ft
 DTM Lead Line: ft

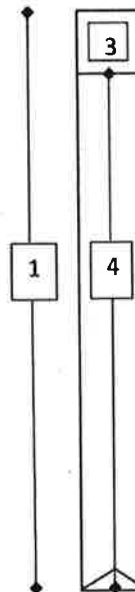
B. Water Level Measurements
 Time: 1434
 Height: -1.26 ft
 Source: RTK tide station

C. Mudline Elevation
 -17.93 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 48 ft / (121.9 cm)
3. Headspace Measurement: 17.5 in / (44.27 cm)
4. Recovery Depth: 42.5 ft / (129.5 cm) 108.0cm
5. Recovery Percentage: 88.5
6. Core Accepted: (Yes / No)



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

SILT, fine sand, dark grey, moist (wet @ top 10cm) homogeneous, trace biota (worms)

Notes:

Corinity vibrator

Sediment Core Collection Form

Project: 1004-Duwamish
 Date: 6/2/20
 Weather: 60s, cloudy
 Logged By: KM

Location ID: SC130
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: TD, KM, PT, JS

Field Collection Coordinates:
 Lat/Northing: 1274139.44

Long/Easting: 197017.20

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 26.7 ft

B. Water Level Measurements

Time: 1351
 Height: 48.2 cm 8.54 ft
 Source: RIR tide station

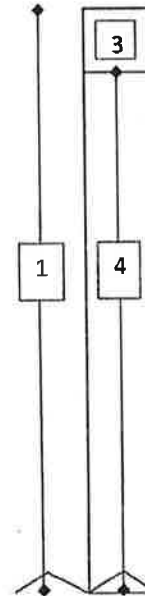
C. Mudline Elevation (ft MLLW)

-16.16

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 4 ft
3. Headspace Measurement: 1.9 ft
4. Recovery Measurement: 3.1 ft 94.5 cm
5. Recovery Percentage: 77.5 %
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A
- C
- B:
- C
- A
- Z:

Drive Notes:

Drive freely to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-5 cm moist dk gray silt
dk gray silt & sand to ~15cm
br. sand prevalent from 15cm to depth

Notes:

Penetration vibration

Sediment Core Collection Form

Project: AOC4 - Duwanish
 Date: 6/24/20
 Weather: 70% cloudy
 Logged By: CDurand

Location ID: SC131
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 196882.38

Long/Easting: 1274108.39

A. Water Depth - 7.88
 DTM Depth Sounder: 7.88 ft
 DTM Lead Line: ft

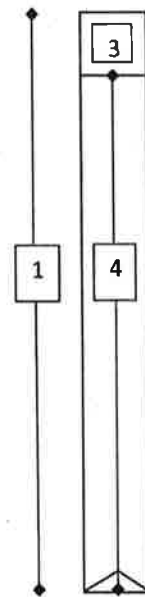
B. Water Level Measurements
 Time: 1353
 Height: -1.61 ft
 Source: RTK tide station

C. Mudline Elevation
 - 9.49 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 41 ft (12.50 m)
3. Headspace Measurement: 27 in
4. Recovery Depth: 33 ft (10.06 m)
5. Recovery Percentage: 80.5
6. Core Accepted: Yes / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove to refusal

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

wet, dark grey silt 0-5cm
 Trace shell hash; 10-20cm
 Moist, dark grey silt; 5cm-end of core
 No odor throughout core
 Biota (worms) 10-15cm
 Anthropogenic debris ~10cm (shards of ceramic)

Notes:

Caution vibracore

Project: AOC4 - Duwamish
 Date: 6/24/20
 Weather: 70s, cloudy
 Logged By: CDurand

Location ID: SC132
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 196933.05

Long/Easting: 1274212.95

A. Water Depth
 DTM Depth Sounder: 16.24 ft
 DTM Lead Line: ft

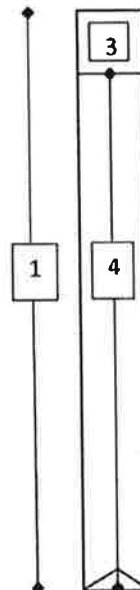
B. Water Level Measurements
 Time: 1407 CD
 Height: -1.59 -1.62 ft
 Source: RTK tide station

C. Mudline Elevation
 CD 17.83 17.86 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 Feet
2. Penetration Depth: 46 ft @ 116.8 cm
3. Headspace Measurement: 20 in
4. Recovery Depth: 40 ft @ 101.6 cm
5. Recovery Percentage: 87.0
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drove to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

very dark grey/brown silt core

Some multi-colored fine sand throughout

top item wet,

some small shell hash @ 40-45 cm from top

Notes:

Gravely vibrocorer

Project: AOCY-Duwamish
Date: 6/3/20
Weather: 50s, mostly cloudy
Logged By: KM

Location ID: IT133
Attempt No.: 2
Core Type: Intertidal
Field Staff: TD, PM, PJ, JS

Field Collection Coordinates:

Lat/Northing: 1274131.59

Long/Easting: 196820.4

A. Water Depth

DTM Depth Sounder:
DTM Lead Line: -7.1

B. Water Level Measurements

Time: 1736
Height: 3.04 ft
Source: RTK tide station

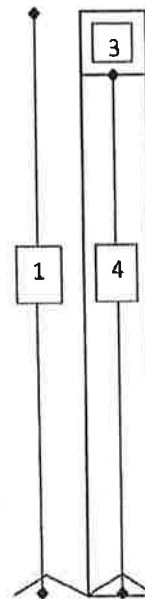
C. Mudline Elevation (ft MLLW)

-4.06

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 ft
- 2. Drive Length: 2.8
- 3. Headspace Measurement: 2.6 ft
- 4. Recovery Measurement: 2.4 ft + 3.2 cm
- 5. Recovery Percentage: 85.7%
- 6. Core Accepted: Yes No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: TO refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dk gray & brown
shell frag throughout depth

Notes:

Gravity vibrocorer

Project: AOC4 - Downamish
 Date: 6/24/20
 Weather: 70s, cloudy
 Logged By: CDurand

Location ID: SC134
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 196747.23

Long/Easting: 1274195.41

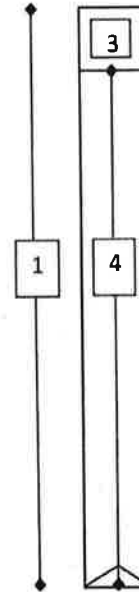
A. Water Depth
 DTM Depth Sounder: 3.58 ft
 DTM Lead Line: ft

B. Water Level Measurements
 Time: 1257
 Height: -1.26 ft
 Source: RTK tide station

C. Mudline Elevation
 - 4.84 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 feet
 2. Penetration Depth: 34 ft / (in) 86.4 cm
 3. Headspace Measurement: 30 in
 4. Recovery Depth: 30 ft / (in) 76.2 cm
 5. Recovery Percentage: 88.2
 6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
 Drove to refusal

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-40 - brown silt w/ fine multi-colored sand, wet. small amount of fine vegetation at very top
 40-68 - dark grey / brown silt
 68-78 - dark grey silt w/ fine multi-colored sand
 no odor

Notes:
 Gravity in browser

Sediment Core Collection Form

Project: AOCY - Duwanish
 Date: 6/3/20
 Weather: 50s, cloudy
 Logged By: KM

Location ID: SC135
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:
 Lat/Nothing: 12.74302.26

Long/Easting: 196840.55

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 19.4 ft

B. Water Level Measurements

Time: 1124
 Height: 0.95 ft
 Source: RTR tide station

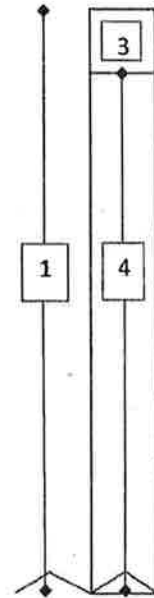
C. Mudline Elevation (ft MLLW)

-18.45

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 3.75 ft
3. Headspace Measurement: 2.0
4. Recovery Measurement: 3.0 ft 91.4 cm
5. Recovery Percentage: 80%
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: TO refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dk gray silt w/ sand, uniformly to depth.

Notes:

excessively waterlogged

Project: AOC4 - Oowamish
 Date: 6/24/20
 Weather: FOG, cloudy
 Logged By: CDurand

Location ID: SC136
 Attempt No.: 2
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MA, TA, CD

Field Collection Coordinates:
 Lat/Northing: 196746.32

Long/Easting: 127426.86

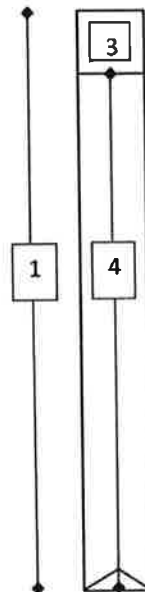
A. Water Depth
 DTM Depth Sounder: 8.44 ft
 DTM Lead Line: ft

B. Water Level Measurements
 Time: 1345
 Height: -1.59 ft
 Source: RTK tide station

C. Mudline Elevation
 -10.03 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 Feet
 2. Penetration Depth: 33 ft / 10.33.8 cm
 3. Headspace Measurement: 34 in
 4. Recovery Depth: 26 ft / 10.66.0 cm
 5. Recovery Percentage: 78.8
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drove to refusal

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Homogeneous dark grey/brown silt

Some fine, multi-colored sand in bottom 10cm

no odor

Notes:

Gravity vibracore

Project: AOC4 - Duwamish
 Date: 6/24/20
 Weather: 60s, Cloudy
 Logged By: Edward

Location ID: IT 137
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 196083.11

Long/Easting: 1274233.28

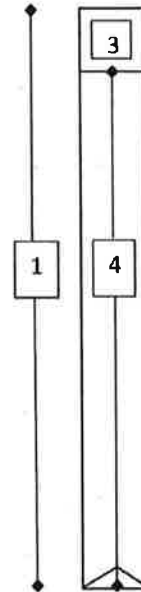
A. Water Depth
 DTM Depth Sounder: _____ ft
 DTM Lead Line: 0.0 ft

B. Water Level Measurements
 Time: 1218
 Height: -0.25 ft
 Source: RTK tide station

C. Mudline Elevation
 -0.25 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: 5 feet
 - Penetration Depth: 48 ft / 14.6 m
 - Headspace Measurement: 15 in
 - Recovery Depth: 45 ft / 13.7 m
 - Recovery Percentage: 93.8
 - Core Accepted: Yes / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:
 Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Brown, moist sand; 0 - 60 cm
 Grey moist sand; 60cm - end of core @ 83cm
 Brown, moist coarse sand; 83 - end of core.
 No odor throughout
 Notable rusty-red band 10cm - 20cm

Notes:
 Gravity vibracore

Project: AOC4 - Duwamish
 Date: 6/25/20
 Weather: 60% Cloudy
 Logged By: CDurand

Location ID: SC138
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 196781.17

Long/Easting: 1274366.166

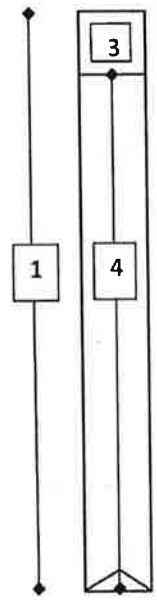
A. Water Depth
 DTM Depth Sounder: 28.47ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 0826 0828
 Height: 9.67 ft
 Source: RTK tide station

C. Mudline Elevation
 -19.30 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
- Core Tube Length: 5 feet
 - Penetration Depth: 48 ft (14.63 m)
 - Headspace Measurement: 16 in
 - Recovery Depth: 44 ft (13.41 m)
 - Recovery Percentage: 91.7
 - Core Accepted: (Yes) / No



- Core Sections To Process:
- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
 Drove to refusal
 Gravity vibrator

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-2cm - large ^{wood} rock (4 inches wide)
 2cm - 20cm - SLT, fine sand dark grey, bands of light gray sand,
 20cm - 40cm - Same as above layer but with wood debris (stems, sticks)
 50cm - 60cm SLT, fine sand dark grey, shell

Notes:
 hash, clam shell
 Note: Wrong number on white board in core photo (SC130 instead of SC138). Corrected for processed sediment.

Sediment Core Collection Form

Project: AK4-Duwamish
 Date: 6/3/20
 Weather: 60s, sunny
 Logged By: KM

Location ID: IT139 0-450W
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:

Lat/Northing: 1274277.05

Long/Easting: 196685.57

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 4.0 ft

B. Water Level Measurements

Time: 1331
 Height: 5.64 ft 6.09 ft
 Source: RTK tide station

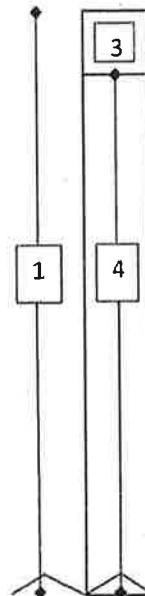
C. Mudline Elevation (ft MLLW)

2.09

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 2.4
3. Headspace Measurement: 2.75 ft
4. Recovery Measurement: 2.25 ft 68.6 cm
5. Recovery Percentage: 93.8%
6. Core Accepted: Yes No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes: To refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dk. br. w/ fine sand
plastic debris 35-40 cm.

Notes:

Gravimetry vibration

Sediment Core Collection Form

Project: A064-Dowdumish
 Date: 6/3/20
 Weather: SOS, misty, cloudy
 Logged By: KM

Location ID: SC140
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: TD, EM, PT, JS

Field Collection Coordinates:

Lat/Northing: 1774395.03

Long/Easting: 196648.02

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 8.5 ft

B. Water Level Measurements

Time: 0751
 Height: 2.05 ft
 Source: RTK tide station

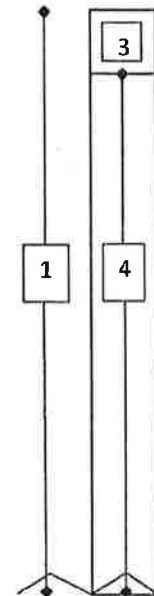
C. Mudline Elevation (ft MLLW)

-6.45

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 4.75 ft
3. Headspace Measurement: 0.7 ft
4. Recovery Measurement: 4.3 ft 131.1 cm
5. Recovery Percentage: 91.2%
6. Core Accepted: Yes No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes: Drove freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~40 cm dk gray silt
 br. sand to depth w/ silt.

Notes:

Locality irrelevant

Project: AOC4 - Ouwamism
 Date: 6/24/20
 Weather: 70%, cloudy
 Logged By: CDurand

Location ID: SC191
 Attempt No.: 3
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PT, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 196683.07

Long/Easting: 1274373.32

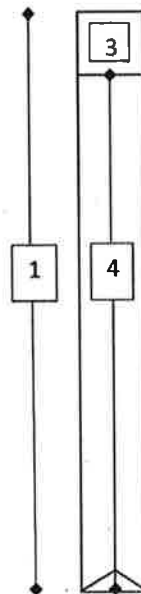
A. Water Depth
 DTM Depth Sounder: 12.80 ft
 DTM Lead Line: ft

B. Water Level Measurements
 Time: 1424
 Height: -1.25 ft
 Source: RTK tide station

C. Mudline Elevation
 ~14.05 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 feet
 2. Penetration Depth: 50 ft (in) 127.0 cm
 3. Headspace Measurement: 17 in
 4. Recovery Depth: 43 ft (in) 109.2 cm
 5. Recovery Percentage: 86
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
 Probe to refusal.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-5cm; wet, dark grey silt
 5cm - end of core; moist, dark grey silt
 Trace shell hash ~25cm
 No odor throughout

Notes:
 Gravelly throughout

Sediment Core Collection Form

Project: AOC4-Duwamish
Date: 6/3/20
Weather: Sols, mostly cloudy
Logged By: KM

Location ID: SC142
Attempt No.: 1
Core Type: Intertidal Subtidal Shoaling
Field Staff: TD, KM, PT, JS

Field Collection Coordinates:
Lat/Northing: 1274448.85 Long/Easting: 1916709.64

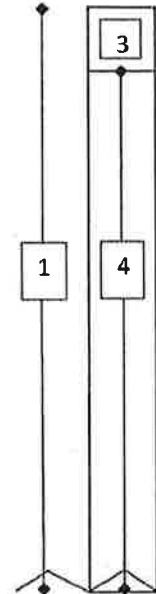
A. Water Depth
DTM Depth Sounder:
DTM Lead Line: 21.8 ft

B. Water Level Measurements
Time: 0818
Height: 1.26 ft
Source: RTK tide station

C. Mudline Elevation (ft MLLW)
-20.54

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 ft
 2. Drive Length: 2.75 ft
 3. Headspace Measurement: 2.8 ft
 4. Recovery Measurement: 2.2 ft 67.1 cm
 5. Recovery Percentage: 80.0%
 6. Core Accepted: Yes No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Gravel top 15cm. w/ dk gray silt.
15cm to depth, br-sand w/ silt.

Notes:

Inventory unrecovered

Project: AOC4 - DUWAMISH
 Date: 6/25/20
 Weather: 60%, cloudy
 Logged By: CDurand

Location ID: IT 143
 Attempt No.: 2
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 196.540.49

Long/Easting: 1274345.05

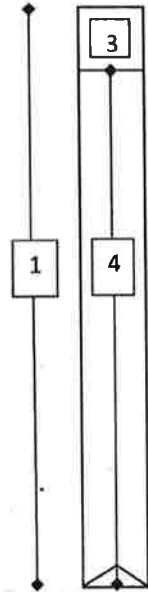
A. Water Depth
 DTM Depth Sounder: 5.68 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 0739
 Height: 9.95 ft
 Source: RTK tide station

C. Mudline Elevation
 +4.27 (ft MLLW)

Recovery Measurements (prior to cuts):

- Core Collection Recovery Details:**
1. Core Tube Length: 5 Feet
 2. Penetration Depth: 23 ft (in) 58.4 cm
 3. Headspace Measurement: 37 in
 4. Recovery Depth: 23 ft (in) 58.4 cm
 5. Recovery Percentage: 100
 6. Core Accepted: (Yes) / No



- Core Sections To Process:
- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
 Drove to refusal.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Brown silt w/ very fine multi-colored sand
 trace shell hash throughout
 large wood debris on top surface
 no odor

Notes:
 Gravity ultracore

Project: 6/3/20 ^{KM} AOCY - Ouwamin
Date: 6/3/20
Weather: Wds, sunny
Logged By: KM

Location ID: SC144
Attempt No.: 1
Core Type: Intertidal (Subtidal) Shoaling
Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:
Lat/Northing: 1274454.33

Long/Easting: 196586.97

A. Water Depth

DTM Depth Sounder:
DTM Lead Line: 13.5 ft

B. Water Level Measurements

Time: 1315
Height: 5.20 ft
Source: RTK tide station

C. Mudline Elevation (ft MLLW)

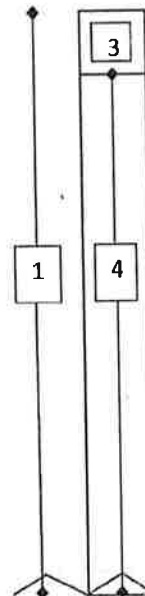
- 8.3

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- Core Tube Length: 5 ft
- Drive Length: 4.75 ft
- Headspace Measurement: 0.5 ft
- Recovery Measurement: 4.5 ft 137.2 cm
- Recovery Percentage: 94.7%
- Core Accepted: (Yes) / No

Drive Notes: Drive freely



Core Sections To Process:

- A.C:
- B:
- C.A:
- Z:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt uniform to depth

Notes:

Gravity is broken

Project: AOC4 - Duwamish
 Date: 6/24/20
 Weather: 70s, cloudy
 Logged By: C Durand

Location ID: IT 145
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 196554.98

Long/Easting: 1274419.24

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: 2.5 ft

B. Water Level Measurements

Time: 1227
 Height: -0.60 ft
 Source: RTK tide station

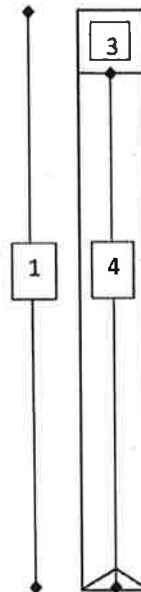
C. Mudline Elevation

-3.10 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 41 ft / 104.1 cm
3. Headspace Measurement: 24 in
4. Recovery Depth: 36 ft / 91.4 cm
5. Recovery Percentage: 87.8
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drive freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10cm wet littered with debris; organic fibers, seaweed, shells, woody debris.

Mostly silt to 30cm, then 30cm-down sand and silt.

No odor

Notes:

Gravity vibrocorer

Sediment Core Collection Form

Project: AOCY-DUWOMISH
 Date: 6/3/20
 Weather: 60s, sunny
 Logged By: KM

Location ID: IT116
 Attempt No.: 1
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: TD, KM, PT, JS

Field Collection Coordinates:

Lat/Northing: 4274594.00
E 1274394.58

Long/Easting: 196491.69

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 5.4ft

B. Water Level Measurements

Time: 1402
 Height: 7.33 ft
 Source: RTK tide station

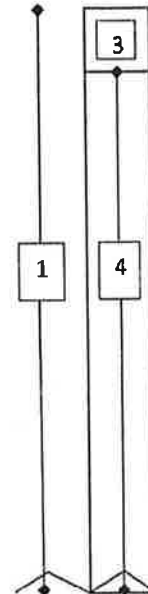
C. Mudline Elevation (ft MLLW)

1.93

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 1.7
3. Headspace Measurement: 3.5 ft
4. Recovery Measurement: 1.5 ft 45.7 cm
5. Recovery Percentage: 88%
6. Core Accepted: (Yes) No



Core Sections To Process:

- A:
- B:
- C:
- Z:

Drive Notes: to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK fusty brown gravel throughout
moist 0.5m

Notes:

Gravity vibracore

Project: AOC4 - Duwamish
 Date: 6/25/20
 Weather: 60%, cloudy
 Logged By: CDurand

Location ID: IT147
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: P.J., MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 196464.07

Long/Easting: 1274465.48

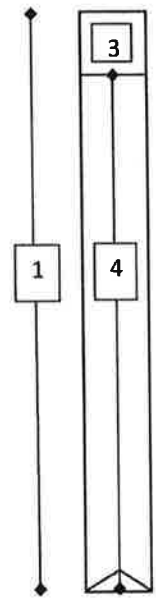
A. Water Depth
 DTM Depth Sounded: 10.90 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 0744
 Height: 9.98 ft
 Source: RTK tide station

C. Mudline Elevation
 - 0.92 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Penetration Depth: 44 ft/in / 131.8 cm
 3. Headspace Measurement: 20 in
 4. Recovery Depth: 40 ft/in / 101.6 cm
 5. Recovery Percentage: 90.9
 6. Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Drove to P CD

Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

This location is under the South Park Bridge. GPS may be affected.

Brown surface, wet top 10 cm.

10-20cm - SILT, fine sand Dark grey. Trace shell hash

20cm - 40cm - SILT, fine sand, bands of light grey sand. No odor trace

Notes:

Gravity in core

Project: AOC4 - Downomish
 Date: 6/8/2020
 Weather: 50s, partly cloudy
 Logged By: CDurand

Location ID: SC 148
 Attempt No.: 3
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PT, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1274584.90

Long/Easting: 196519.11

A. Water Depth
 DTM Depth Sounder: 20.31 ft
 DTM Lead Line:

B. Water Level Measurements
 Time: 0841
 Height: 8.31 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)
- 12.00

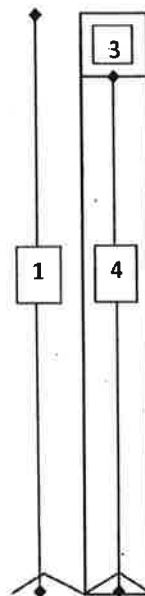
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10'
2. Drive Length: 63 in
3. Headspace Measurement: 1 in
4. Recovery Measurement: 59 in / 149.9 cm
5. Recovery Percentage: 93.6
6. Core Accepted: (Yes) / No

Drive Notes:

Hit refusal at 63 inches. Hard packed sand. Retained core after fourth attempt, per coordination with Susan McBroddy. 91.4 cm shoaling material



recovery corrected!
 Core Sections To Process:
 A: 0 - 45.7 cm
 B: 45.7 - 91.4 cm
 C: 91.4 - 149.9 cm
 z: Not collected

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- A - Dark gray silt w/ trace sand
- B - Dark gray silt to depth
- C - Dark gray silt to depth, wood debris at bottom ~150 cm

No Z

Notes:

Gravity vibracore

Project: AOC4 - Duwanish
 Date: 6/25/20
 Weather: 60s, cloudy
 Logged By: CDarand

Location ID: ⁸⁰ SC143 SC149
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 196598.29

Long/Easting: 1274648.93

A. Water Depth
 DTM Depth Sounder: 31.43 ft
 DTM Lead Line: _____ ft

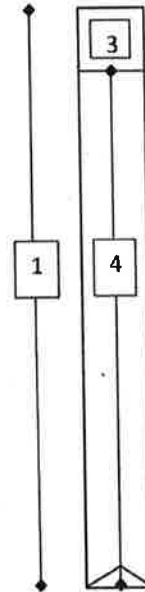
B. Water Level Measurements
 Time: 0804
 Height: 9.92 ft
 Source: RTK tide station

C. Mudline Elevation
 - 21.51 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 30 ft/in. 76.2 cm
3. Headspace Measurement: 34 in
4. Recovery Depth: 26 ft/in. 66.0 cm
5. Recovery Percentage: 86.7
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 2cm brown silt + coffee on water
 0-30 coarse sand and gravel
 Top bottom is homogeneous, dark grey silt fine sand, stick wood fiber
 shell hard, no obof

Notes:

Gravity adhesion

Sediment Core Collection Form

Project: 1024-Duwamish
 Date: 6/3/20
 Weather: 50s, mostly cloudy
 Logged By: KM

Location ID: SC150
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:
 Lat/Northing: 1274914.00

Long/Easting: 196536.37

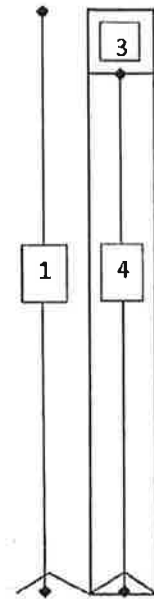
A. Water Depth
 DTM Depth Sounder:
 DTM Lead Line: -20.7 ft

B. Water Level Measurements
 Time: 0842
 Height: 0.29 ft
 Source: RTK tide station

C. Mudline Elevation (ft MLLW)
-20.41

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 ft
 2. Drive Length: 3.3 ft
 3. Headspace Measurement: 2.25 ft
 4. Recovery Measurement: 2.75 ft 83.8 cm
 5. Recovery Percentage: 83.3%
 6. Core Accepted: (Yes) No



Core Sections To Process:

A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes: to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Gravel to 20cm
Mud to top 10cm
DK gray silt w/ sand 25cm to depth.

Notes:

Gravity vibracore

Project: 1004 - DOWANISH
 Date: 6/3/20
 Weather: 60s, sunny
 Logged By: EM

Location ID: IT/SI
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:
 Lat/Northing: 1274559.94

Long/Easting: 196397.73

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 7.4 ft

B. Water Level Measurements

Time: 1346
 Height: 6.51 ft
 Source: RTK tide station

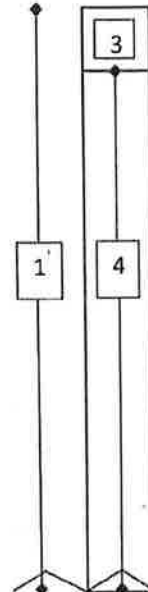
C. Mudline Elevation (ft MLLW)

-0.89

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 2.9 ft
3. Headspace Measurement: 2.75 ft
4. Recovery Measurement: 2.25 ft 68.6 cm
5. Recovery Percentage: 77.6%
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10cm Moist brown/gray silt.
~20 cm, dk brown med sand to depth.

Notes:

Gravity vibracore

Project: AOC4 - Duwamish
 Date: 6/25/20
 Weather: 60s, cloudy
 Logged By: C Durand

Location ID: IT 15a
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: P, J, M, D, T, D, C, D

Field Collection Coordinates:
 Lat/Northing: 196329.66

Long/Easting: 1274597.27

A. Water Depth

DTM Depth Sounder: 5.84 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0756
 Height: 9.95 ft
 Source: RTK tide station

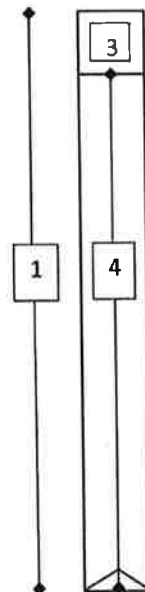
C. Mudline Elevation

+4.11 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 18.5 ft/in) 47.0 cm
3. Headspace Measurement: 41.5 in
4. Recovery Depth: 18.5 ft/in) 47.0 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drive to refusal

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- used sediment in the fingers to achieve 44.5cm
- top 0-18cm - dark grey silt w/ gravel / small pebbles, fairly wet
 - small trace organic matter
- remaining core - brown silt, moist
- no odor

Notes:

Empty vibracore

Project: AOC4 - Duwamish
 Date: 6/26/20
 Weather: 60s, sunny
 Logged By: C Durand

Location ID: SC153
 Attempt No.: 4
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 196420.40

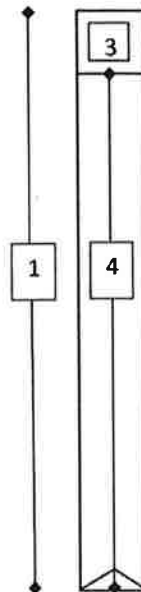
Long/Easting: 1274714.73

A. Water Depth
 DTM Depth Sounder: 21.45 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 0930
 Height: 9.41 ft
 Source: RTK tide station

C. Mudline Elevation
 -12.54 (ft MLLW)
 Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 10 feet
 2. Penetration Depth: 64 ft / 1962.6 cm
 3. Headspace Measurement: 58.5 in
 4. Recovery Depth: 61.5 ft / 187.2 cm
 5. Recovery Percentage: 96
 6. Core Accepted: (Yes) / No



Core Sections To Process:

A: 0 to 70 75.0
 B: 70 to 75.0 to 105.0
 C: 75.0 to 135.0
 D: 135.0 to 165.0 156 cm
 E: 105 to 135 128
 CD CD CD

Drive Notes:
 Added chuck.
 Hit refusal.
 75.0 cm shoaling material
 4th attempt, slightly short for full Z layer - ok per Susie. (see processing form)

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Homogeneous core of dark grey/brown silt
 Top 10cm - very wet, medium brown silt

Notes:
 Coranite with core

Sediment Core Collection Form

Project: ADC4 - Duwanish
Date: 06/04/20
Weather: 66° partly cloudy
Logged By: C. Durand

Location ID: SC 154
Attempt No.: 1
Core Type: Intertidal Subtidal Shoaling
Field Staff: RS, PJ, TD, CP

Field Collection Coordinates:
Lat/Northing: 1274716.32

Long/Easting: 196265.44

A. Water Depth

DTM Depth Sounder: 8.01 ft.
DTM Lead Line: _____

B. Water Level Measurements

Time: 1404
Height: 5.06 ft.
Source: RTK

C. Mudline Elevation (ft MLLW)

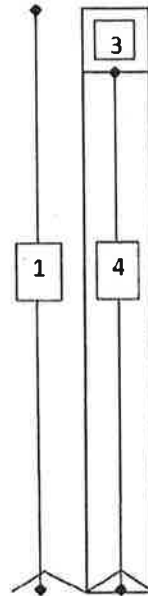
- 2.95

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'
2. Drive Length: 60 m
3. Headspace Measurement: 3"
4. Recovery Measurement: 57 in. / 144.8 cm
5. Recovery Percentage: 95
6. Core Accepted: (Yes) No

Drive Notes: Drive freely



Core Sections To Process:

- A
- B
- C
- Z

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DC gray silt to depth

Notes:

Gravity vibrator

Project: AOC4 - DUWAMISH
 Date: 6/8/2020
 Weather: 60s, Mostly Cloudy
 Logged By: CDurand

Location ID: SC155
 Attempt No.: 2
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PJ, JS, TP, CD

Field Collection Coordinates:
 Lat/Northing: 1274813.68

Long/Easting: 196335.75

A. Water Depth
 DTM Depth Sounder: 16.67 ft
 DTM Lead Line:

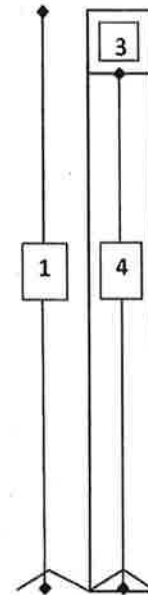
B. Water Level Measurements
 Time: 1036
 Height: 3.27 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
 - 13.40

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10
2. Drive Length: 72 in
3. Headspace Measurement: 65 in
4. Recovery Measurement: 55 in ft 139.7 (cm)
5. Recovery Percentage: 76.4
6. Core Accepted: Yes / No



Core Sections To Process:

- Pre: 0-48.8
 B: 48.8-93.7
 Z: 93.7-116.2
- 48.8
 105.8
 105.8-
 135.8

Drive Notes: Drove freely to 6 ft.
 48.8 cm shoaling material

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

48.8 cm shoaling material
 A - Moist 0-5 cm silt, gray w/ silt
 B - Drk gray silt
 Z - Drk gray silt

Notes:

Gravity vibrator

Project: AOC 84 - Duwamish
 Date: 6/3/20
 Weather: SOS, cloudy
 Logged By: KM

Location ID: SC56
 Attempt No.: 2
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: TD, KM, JS, PJ

Field Collection Coordinates:

Lat/Northing: 17409.10

Long/Easting: 196317.05

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 15.5 ft

B. Water Level Measurements

Time: 0928
 Height: -0.55 ft
 Source: RTK tide station

C. Mudline Elevation (ft MLLW)

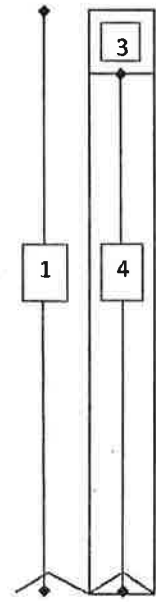
-16.05

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 3.6 ft
3. Headspace Measurement: 2.1 ft
4. Recovery Measurement: 2.9 ft 88.4 cm
5. Recovery Percentage: 81.0 %
6. Core Accepted: Yes / No

Drive Notes: to refusal.



Core Sections To Process:

- A-G
- B:
- C-R
- Z:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Uniformly dk gray silt w/ f sand to depth

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/26/20
 Weather: 60s, sunny
 Logged By: CDurand

Location ID: SC157
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MB, TD, CD

Field Collection Coordinates:
 Lat/Northing: 196232.51

Long/Easting: 1274963.54

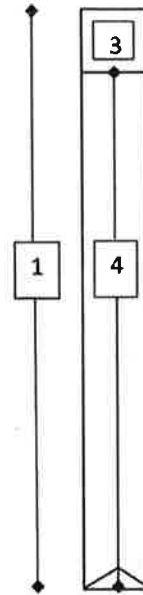
A. Water Depth
 DTM Depth Sounder: 23.49 ft
 DTM Lead Line: ft

B. Water Level Measurements
 Time: 0905
 Height: 9.34 ft
 Source: RTK tide station

C. Mudline Elevation
 - 14.15 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 feet
 2. Penetration Depth: 56 ft / (10) 142.2 cm
 3. Headspace Measurement: 9 in
 4. Recovery Depth: 51 ft / (10) 129.5 cm
 5. Recovery Percentage: 91.1
 6. Core Accepted: (Yes) / No



Core Sections To Process:

A: 0 to 55.9 85.9

B:

C:

Z: 85.9 to 115.9

Drive Notes:
 Drove freely to depth
 25.9 cm shoaling material

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- Homogeneous core of dark olive/grey silt
- some organic matter at very top (woody debris, shell)
- 10cm area of circled core, 70cm from top, not full width of core
- no odor
- strong H₂S odor when split open & center of core exposed

Notes:
 Gravity vibracore

Sediment Core Collection Form

Project: AOCY-DUNAMISH
Date: 6/4/20
Weather: 60's, partly cloudy
Logged By: KM

Location ID: SC158
Attempt No.: 1
Core Type: Intertidal (Subtidal) Shoaling
Field Staff: KM, EP, JH, AM

Field Collection Coordinates:
Lat/Northing: 127487855

Long/Easting: 196132.07

A. Water Depth
DTM Depth Sounder:
DTM Lead Line: 8.3 ft

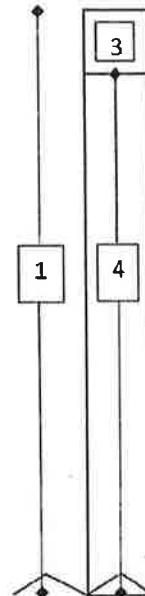
B. Water Level Measurements
Time: 1401
Height: 5.06 ft
Source: RTK tide station

C. Mudline Elevation (ft MLLW)
-3.24

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5.1 ft
- 2. Drive Length: 4.2 ft
- 3. Headspace Measurement: 0.9
- 4. Recovery Measurement: 4.2 ft 128.0 cm
- 5. Recovery Percentage: 100%
- 6. Core Accepted (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: To refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt to depth.

Notes:

RSS UNIFORM

Sediment Core Collection Form

Project: AOC4-Duwamish
 Date: 06/04/20
 Weather: 65° partly sunny
 Logged By: C Durand

Location ID: SC159
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PJ, JS, TA, CD

Field Collection Coordinates:

Lat/Northing: 1274858.48
 E

Long/Easting: 196093.74
 N

A. Water Depth

DTM Depth Sounder: 6.34 ft
 DTM Lead Line: _____

B. Water Level Measurements

Time: 1352 1354
 Height: 4.59 ft
 Source: RTK

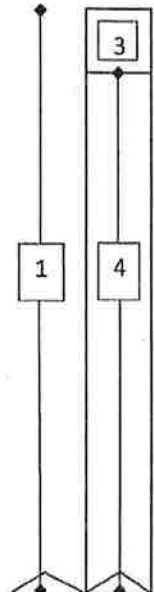
C. Mudline Elevation (ft MLLW)

-1.75

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'
2. Drive Length: 60"
3. Headspace Measurement: 12 in.
4. Recovery Measurement: 48" & 121.9 cm
5. Recovery Percentage: 80
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes: Drive freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt to depth

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Downwash
 Date: 6/15/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: SC160
 Attempt No.: 4
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat(Northing) 196162.66

Long(Easting) 1274998.69

A. Water Depth
 DTM Depth Sounder: 16.80 ft
 DTM Lead Line:

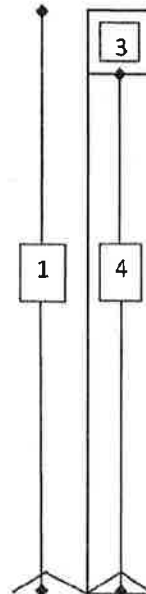
B. Water Level Measurements
 Time: 1129
 Height: 5.82 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
 -10.98

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 feet
2. Drive Length: 102 in 259 cm
3. Headspace Measurement: 20 in
4. Recovery Measurement: 100 in ft 254 cm
5. Recovery Percentage: 98
6. Core Accepted: Yes / No



Core Sections To Process:

- A: 0 to 122.5 61.25
- B: 61.25 to 122.5
- C: 122.5 to 182.5
- z: 182.5 to 212.5

Drive Notes:

122.5 cm shoaling material
 Drove to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 60 cm - lighter color, sandy. Rem ainder of core homogeneous dark brown-grey well packed silt.

Notes:

Gravity vibrator

Project: AOC4-Duwamish
 Date: 06/04/20
 Weather: 50% cloudy
 Logged By: C Durand

Location ID: SC161
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: PT, JS, Theri Do, CD

Field Collection Coordinates:
 Lat/Northing: 127 4936.79

Long/Easting: 195995.55

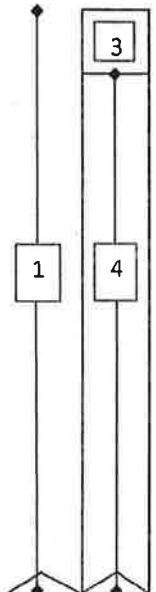
A. Water Depth
 DTM Depth Sounder: 3.02
 DTM Lead Line: _____

B. Water Level Measurements
 Time: 0845 0844 CD
 Height: 0.9
 Source: RTK

C. Mudline Elevation (ft MLLW)
-2.12

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5
 2. Drive Length: 38"
 3. Headspace Measurement: 27"
 4. Recovery Measurement: 33" / 83.8 cm
 5. Recovery Percentage: 86.8
 6. Core Accepted: (Yes) No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

To refusal

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10 cm moist, brown silt
~40 cm, sand, to depth
10-40 cm, dk gray silt

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOCY - Duwamish
 Date: 6/3/20
 Weather: 50s, cloudy
 Logged By: KM

Location ID: SC16Z *-0-60cm*
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:
 Lat/Northing: 1275115.57

Long/Easting: 196143.82

A. Water Depth
 DTM Depth Sounder:
 DTM Lead Line: 15.6 ft

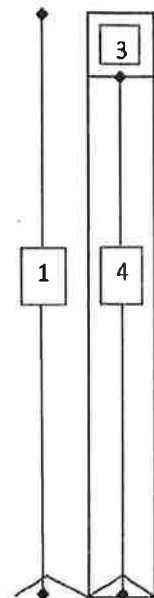
B. Water Level Measurements
 Time: 0944
 Height: -0.72 ft
 Source: RTK Tide Station

C. Mudline Elevation (ft MLLW)
-16.32

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 3.25 ft
3. Headspace Measurement: 2.5 ft
4. Recovery Measurement: 2.5 ft 76.2 cm
5. Recovery Percentage: 76.9%
6. Core Accepted: Yes No



Core Sections To Process:

A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes: To refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray sand w/ silt, uniformly to depth

Notes:

Gravity vibrator

Project: AOC4 - Duwamish
 Date: 6/26/20
 Weather: 70°, sunny
 Logged By: CDurand

Location ID: SC163
 Attempt No.: 3
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 196081.48

Long/Easting: 1275115.20

A. Water Depth
 DTM Depth Sounder: 21.36 ft
 DTM Lead Line: ft

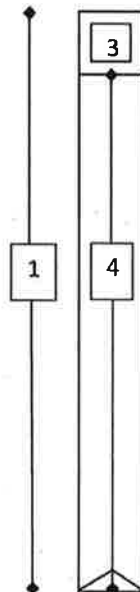
B. Water Level Measurements
 Time: 0937
 Height: 9.00 ft
 Source: RTK tide station

C. Mudline Elevation
 -12.36 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 Feet
2. Penetration Depth: 90 ft / @ 228.6 cm
3. Headspace Measurement: 30.5 in
4. Recovery Depth: 89.5 ft / @ 227.3 cm
5. Recovery Percentage: 99.4
6. Core Accepted (Yes) / No



Core Sections To Process:

- A: 0 to 80.5
- B: 80.5 to 140.5
- C:
- Z: 140.5 to 170.5

Drive Notes:

Drive freely to depth
 80.5 cm shealing material

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Homogeneous core of dark brown/grey silt
 Area of wetter silt (10cm) - 20cm from the top
 Slightly lighter brown 10cm from the top
 No odor

Notes:

Gravels vibracored

Sediment Core Collection Form

Project: AOC4-Duwamish

Location ID: SC164

Date: 06/04/20

Attempt No.: 1

Weather: 50s, cloudy

Core Type: Intertidal (Subtidal) Shoaling

Logged By: C Durand

Field Staff: PJ, SS, TD, CD

Field Collection Coordinates:

Lat/Northing: 1275022.44

Long/Easting: 195923.17

A. Water Depth - 2.66

DTM Depth Sounder: 0.98 CD

DTM Lead Line:

B. Water Level Measurements

Time: 0854

Height: 0.90 CD 0.49

Source: RTK

C. Mudline Elevation (ft MLLW)

- 2.17

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'

2. Drive Length: 42"

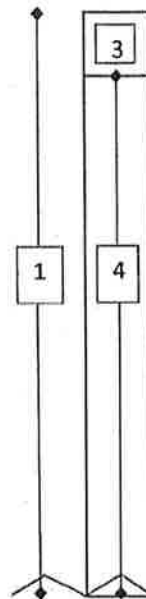
3. Headspace Measurement: 23.5"

4. Recovery Measurement: 36.5" 92.7 cm

5. Recovery Percentage: 86.9

6. Core Accepted: (Yes) No

Drive Notes: ~~to refusal~~ = 112
drive freely



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-Saturated silt, brown/gray
Sand at ~15cm depth, gray/brown w/ silt.

Notes:

Gravity vibracore

Project: AOC4-Dowamish
Date: 06-04-20
Weather: cloudy, SDS
Logged By: J. PD

Location ID: SC105
Attempt No.: 1
Core Type: Intertidal Subtidal Shoaling
Field Staff: CD, TD, PJ, JS

Field Collection Coordinates:
Lat/Northing: 127 5083.81

Long/Easting: 19 0951.61

A. Water Depth

DTM Depth Sounder: 6.17
DTM Lead Line: 6.17

B. Water Level Measurements

Time: 0750
Height: 0.43
Source: RTK

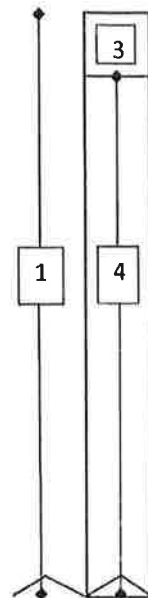
C. Mudline Elevation (ft MLLW)

2.57 - 2.74

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5'
- 2. Drive Length: 5.0 ft
- 3. Headspace Measurement: 4 in.
- 4. Recovery Measurement: 50 in / 142.2 cm
- 5. Recovery Percentage: 93.3
- 6. Core Accepted: Yes / No



Core Sections To Process:

- A:
- B:
- C:
- Z:

Drive Notes: Drive freely

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt uniformly to depth

Notes: Gravity vibrator

Project: AOC4-Duwamish
 Date: 6/8/20
 Weather: 60s, Mostly Cloudy
 Logged By: CDurand

Location ID: SC 166
 Attempt No.: 3
 Core Type: Intertidal ~~Subtidal~~ (Shoaling)
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1275181.77

Long/Easting: 195997.54

A. Water Depth
 DTM Depth Sounder: 8.63 ft
 DTM Lead Line:

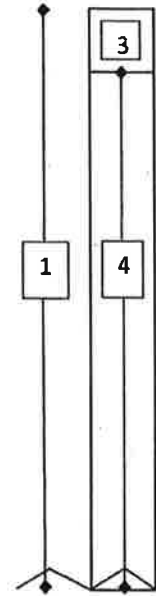
B. Water Level Measurements
 Time: 1237
 Height: -1.76 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
 -10.39

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10'
2. Drive Length: 89 in
3. Headspace Measurement: 42 in
4. Recovery Measurement: 78 in & 198.1 cm
5. Recovery Percentage: 87.6
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: 0 - 70.1 cm
- B: 70.1 - 140.2 cm
- C: 140.2 cm - 200.2 cm
- Z: 200.2 - 226.1 cm

Drive Notes: Drive freely to ~ 7 ft.
 4.61 feet = 140.5 cm shoaling material.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

A- dark gray silt
 B " "
 C " "

Notes:

Gravity vibracores

Sediment Core Collection Form

Project: AOC4 - Duwamish
Date: 06/04/20
Weather: 50s, cloudy
Logged By: C. Durand

Location ID: SC167
Attempt No.: 1
Core Type: Intertidal (Subtidal) Shoaling
Field Staff: PJ, SS, TD, CD

Field Collection Coordinates:
Lat/Northing: 1275063.75

Long/Easting: 195877.31

A. Water Depth

DTM Depth Sounder: 2.40 ft.
DTM Lead Line:

B. Water Level Measurements

Time: 0905
Height: 0.11 ft.
Source: RTK

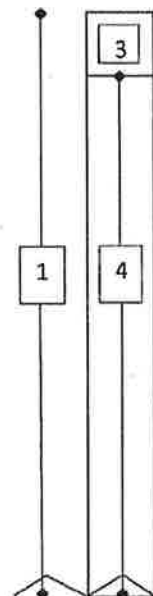
C. Mudline Elevation (ft MLLW)

-2.29

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'
2. Drive Length: 48"
3. Headspace Measurement: 18"
4. Recovery Measurement: 42" ft 106.7 cm
5. Recovery Percentage: 87.5
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: to refusal Do
drive freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Moist 0-15 cm, dk gray silt.

Dk gray silt to depth

Notes:

Gravity vibrator

Project: AOC4-Dunhamish

Location ID: SC168

Date: 06/04/20

Attempt No.: 1

Weather: Cloudy 50%

Core Type: Intertidal Subtidal Shoaling

Logged By: C. Dikran

Field Staff: PJ, JT, CD

Field Collection Coordinates:

Lat/Northing: 1275129.82

Long/Easting: 195858.75

A. Water Depth

DTM Depth Sounder: 4.73

DTM Lead Line:

B. Water Level Measurements

Time: 0816

Height: 2.35

Source: RTK

C. Mudline Elevation (ft MLLW)

-2.38

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'

2. Drive Length: 60"

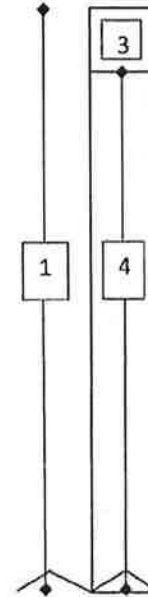
3. Headspace Measurement: 7.5"

4. Recovery Measurement: 52.5" / 133.4 cm

5. Recovery Percentage: 87.5%

6. Core Accepted: Yes / No

Drive Notes: Drive freely



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark gray silt to depth below brown surface (0-10cm)

Notes:

Gravity inbrakes

Sediment Core Collection Form

Project: AOC4-Duwamish
Date: 06/05/20
Weather: 54° Hazy
Logged By: C Durand

Location ID: SC169
Attempt No.: 3
Core Type: Intertidal Subtidal Shoaling
Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
Lat/Northing: 12 7 51 67.92

Long/Easting: 19 5 8 55.91

A. Water Depth

DTM Depth Sounder: 7.88 ft.
DTM Lead Line:

B. Water Level Measurements

Time: 0755 0758
Height: 5.62 ft.
Source: RTK

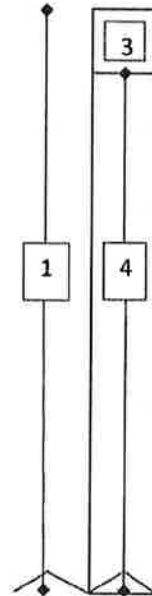
C. Mudline Elevation (ft MLLW)

-2.26

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5'
- 2. Drive Length: 60 in
- 3. Headspace Measurement: 25
- 4. Recovery Measurement: 57.5 ft in 146.1 cm
- 5. Recovery Percentage: 95.8
- 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: Drove freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dark gray silt w/ f. sand to depth

Notes:

Cavity vibracored

Sediment Core Collection Form

Project: AOC4-DOWAMISH
 Date: 06/04/20
 Weather: Partly sunny, 66°
 Logged By: C. Durand

Location ID: IT 200
 Attempt No.: 2 U-45
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PS, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1275250.24

Long/Easting: 195852.53

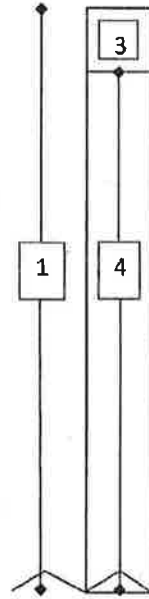
A. Water Depth
 DTM Depth Sounder: 6.34 ft
 DTM Lead Line: _____

B. Water Level Measurements
 Time: 1332 1333 00
 Height: 3.58 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)
-2.70

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5'
 2. Drive Length: 3.8m
 3. Headspace Measurement: 28 in
 4. Recovery Measurement: 3.2m ft 91.3 cm
 5. Recovery Percentage: 82.2% 84.2
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
used stopper. To refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10 moist dk gray silt
br-silt w/ sand to 35cm
dk gray silt 35cm to depth.

Notes:
Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Downamish
 Date: 6/25/20
 Weather: 60% partly cloudy
 Logged By: Edward

Location ID: SC201
 Attempt No.: 7
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 195880.36

Long/Easting: 1275338.31

A. Water Depth
 DTM Depth Sounder: 19.98 ft
 DTM Lead Line: ft

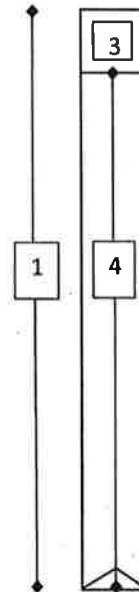
B. Water Level Measurements
 Time: 0940
 Height: 7.75 ft
 Source: RTK tide station

C. Mudline Elevation
 -12.23 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 16 feet
2. Penetration Depth: 60 ft/in. 152.4 cm
3. Headspace Measurement: 7 ft
4. Recovery Depth: 49 ft/in. 124.5 cm
5. Recovery Percentage: 81.7
6. Core Accepted (Yes) / No



Core Sections To Process:

- A: 0 to 84.4
- B: 84.4 to 144.4
- C:
- Z: No Z-layer collected

Drive Notes:

Drive to refusal.
 Susan's direction to Thai after several attempts was to try for best sample and that a sample may be accepted without reaching deep enough for the Z-layer. 84.4 cm shoaling material.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

top 0-60 cm - grey + light brown silt

remaining core - dark grey / brown silt

No odor

Notes:

Gravity ultracorer

Sediment Core Collection Form

Project: ADCY - Duwamish
 Date: 6/3/70
 Weather: Sky cloudy
 Logged By: KM

Location ID: SC202
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:
 Lat/Northing: 1275385.87

Long/Easting: 195921.69

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: -19.5 ft

B. Water Level Measurements

Time: 1142
 Height: 1.56
 Source: RTK tide station

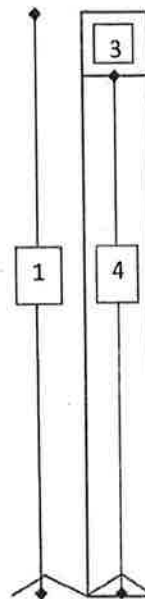
C. Mudline Elevation (ft MLLW)

-17.91

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 5 ft
3. Headspace Measurement: 0.3 ft
4. Recovery Measurement: 4.7 ft 143.3 cm
5. Recovery Percentage: 94%
6. Core Accepted: (Yes) / No



Core Sections To Process:

A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drive freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dk-gray sil w/ f-sand, uniform to depth

Notes:

Cavity observed

Sediment Core Collection Form

Project: ADCY - Duwamish
 Date: 6/3/20
 Weather: 6:15; partly sunny
 Logged By: KM

Location ID: SC203
 Attempt No.: 2
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:
 Lat/Northing: 1275484.20

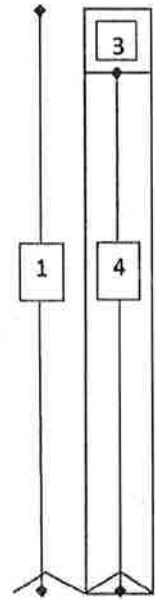
Long/Easting: 195830.40
195831.97

A. Water Depth
 DTM Depth Sounder:
 DTM Lead Line: 21.4 ft

B. Water Level Measurements
 Time: 1214
 Height: 2.65 ft
 Source: RTR tide station

C. Mudline Elevation (ft MLLW)
-18.75
 Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 ft
 2. Drive Length: 4.7 ft
 3. Headspace Measurement: 0.8 ft
 4. Recovery Measurement: 4.2 ft / 128.0 cm
 5. Recovery Percentage: 89.4%
 6. Core Accepted: Yes / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes: Drive freely

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10 moist dk gray silt.
Sand & shell frag. 40-60 cm.
Rest is dk gray silt

Notes: Gravity vibracore

Project: AOC4 - Duwamish
 Date: 6/15/20
 Weather: 60s, cloudy
 Logged By: C Durand

Location ID: SC204
 Attempt No.: 5
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or (Shoaling)
 Field Staff: JS, MB, TD, CD

Field Collection Coordinates:

Lat(Northing): 195 786.21

Long(Easting): 1275464.33

A. Water Depth

DTM Depth Sounder: 21.53 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 1327
 Height: 8.04 ft
 Source: RTK tide station

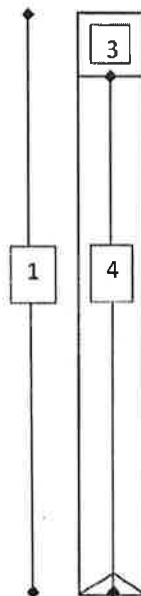
C. Mudline Elevation

- 13.49 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 feet
2. Penetration Depth: 56 ft/in 142.2 cm
3. Headspace Measurement: 79 in
4. Recovery Depth: 42 ft/in 106.7 cm
5. Recovery Percentage: 75.0
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: 0 to 46.0
 B: 46.0 to 106.0
 C: _____
 Z: 106.0 to 136.0

Drive Notes:

46cm shoaling material.
 Drove to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 40 cm light brown sand.
 40 - 50 cm band of med-coarse sand
 50 cm - bottom: dark brown-grey silt + sand
 30 cm: sharp delineation between sand and silt layers

Notes:

Gravity vibrator

Project: AOC4 - Duwanish
 Date: 6/23/20
 Weather: Fog, sunny
 Logged By: CDurand

Location ID: SC205
 Attempt No.: 3
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 195688.24

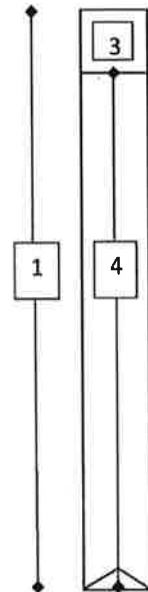
Long/Easting: 1275561.62

A. Water Depth
 DTM Depth Sounder: 11.88 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1305
 Height: -1.98 ft
 Source: RTK tide station

C. Mudline Elevation
 -13.84 (ft MLLW)
 Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
- Core Tube Length: 5 feet
 - Penetration Depth: 54 ft/in 137.2 cm
 - Headspace Measurement: 12 in
 - Recovery Depth: 48 ft/in 122.0 cm
 - Recovery Percentage: 88.9
 - Core Accepted: (Yes) / No



- Core Sections To Process:
- A: 0 to 34.7
 - B: 34.7 to 94.7
 - C: _____
 - Z: 94.7 to 124.7

Drive Notes:
 34.7cm shoaling material
 Drive to refusal.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 3cm medium grain multicolored sand light brown color, no odor, sheen
 rest of bottom sample is monogenic, brown color

Notes:
 Coranity vibracored

Project: AOC4 - Oowamish
 Date: 6/22/20
 Weather: 70s, sunny
 Logged By: CDurand

Location ID: SC206
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TD, CD

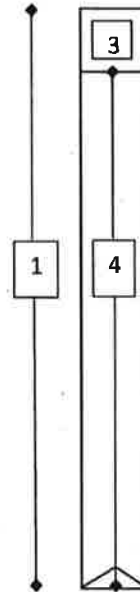
Field Collection Coordinates: 195652.98
 Lat/Northing: 195086.44
 Long/Easting: 1275781.49 1275695.24

A. Water Depth
 DTM Depth Sounder: 16.05 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1319
 Height: -1.23 ft
 Source: RTK tide station

C. Mudline Elevation
 -17.28 (ft MLLW)
 Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: 5 feet
 - Penetration Depth: 48 ft (in) 12.9 cm
 - Headspace Measurement: 20 in
 - Recovery Depth: 40 ft (in) 10.6 cm
 - Recovery Percentage: 83.3
 - Core Accepted: Yes / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Homogeneous
 Dark/grey silty core
 No biota

Notes:

Gravity measured

Project: AOC4 - Duwanish
 Date: 6/23/20
 Weather: 70s, sunny
 Logged By: CDurand

Location ID: SC207
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJMD, TP, CD

Field Collection Coordinates:
 Lat/Northing: 193592.72

Long/Easting: 1275646.12

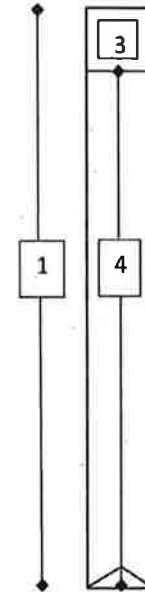
A. Water Depth
 DTM Depth Sounder: 13.09 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1150
 Height: -1.02 ft
 Source: RTK tide station

C. Mudline Elevation
 - 14.1 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: 5 feet
 - Penetration Depth: 48 ft/in, 120.0 cm
 - Headspace Measurement: 22.5 in
 - Recovery Depth: 37.5 ft/in, 95.3 cm
 - Recovery Percentage: 78.1
 - Core Accepted: (Yes) / No



- Core Sections To Process:
- A: 0 to 37.5 (CD) ^{87.1}
 - B: 37.5 (CD)
 - C: _____
 - Z: 87.1 to 117.1

Drive Notes:
 Drove freely to depth.
 27.1 cm shoaling material

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~47 cm - medium olive brown silt, with very fine sand, shell hash
 Remaining ~57 cm - dark brown silt
 H₂S odor when opened

Notes:
 Grassy vibracore

Project: AOC4-Duwamish
 Date: 6/8/30
 Weather: 60s, Mostly Cloudy
 Logged By: C Durand

Location ID: SC 208
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1275777.19

Long/Easting: 195553.42

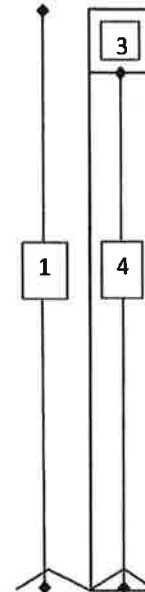
A. Water Depth
 DTM Depth Sounder: 12.50 ft
 DTM Lead Line: _____

B. Water Level Measurements
 Time: 14:38
 Height: -0.96 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
-13.46

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5'
 2. Drive Length: 58 in
 3. Headspace Measurement: 73 mm 13 in
 4. Recovery Measurement: 47 in ft 119.4 cm
 5. Recovery Percentage: 47% 81
 6. Core Accepted: (Yes) / No



Core Sections To Process:

A: 0-46.9
B: 46.9-106.9
C: 46.9N
Z: 106.9-136.9

Drive Notes: Drive freely
18.48 m = 46.9 cm shoal material

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

A DK gray silt
B ↓
Z ↓

Notes:

Curvedly irregular

Project: AOC4 - Downwash
 Date: 6/23/00
 Weather: FCS, sunny
 Logged By: C Durand

Location ID: SC209
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 195501.19

Long/Easting: 1275789.01

A. Water Depth

DTM Depth Sounder: 15.32 ft
 DTM Lead Line: ft

B. Water Level Measurements

Time: 1127
 Height: -0.01 ft
 Source: RTK tide station

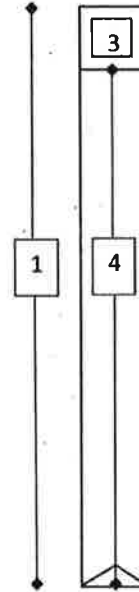
C. Mudline Elevation

15.33 / 15.31 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 60 ft / (in) 152.4 cm
3. Headspace Measurement: 4.5 in
4. Recovery Depth: 55.5 ft / (in) 141.0 cm
5. Recovery Percentage: 92.5
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth,

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

wet, sloppy silt, 0-12cm
 12-end, moist silt
 Dark Grey throughout
 No odor

Notes:

Gravity vibrocorer

Project: AOC4 - Dowdunism
 Date: 6/15/20
 Weather: 60%, cloudy
 Logged By: C Durand

Location ID: SC210
 Attempt No.: 4
 Core Type: Intertidal (0-45cm) (Subtidal (0-60 or Shoaling))
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat(Northing) 195471.94

Long(Easting) 1275706.37

A. Water Depth

DTM Depth Sounder: 21.30 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 1239
 Height: 7.33 ft
 Source: RTK tide station

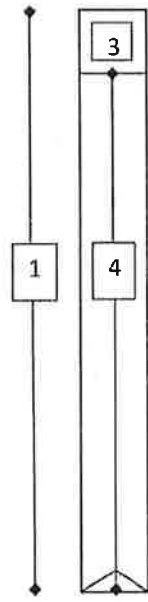
C. Mudline Elevation

-13.97 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 60 ft (in) 152.4 cm
3. Headspace Measurement: 3.5 in
4. Recovery Depth: 56.5 in (in) 143.5 cm
5. Recovery Percentage: 94.2
6. Core Accepted: (Yes) / No



Core Sections To Process:

A: 0 to 31.4

B: 31.4 to 91.4

C: _____

Z: 91.4 to 121.4

Drive Notes:

Added Chuck.
31.4 cm shoaling material.
Drove freely to depth

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Upper ~ 60cm coarse sand / grey
60-90cm silt / fine sand, dark grey
remainder: coarse sand grey shell hash

Notes:

Gravity vibrocorer

Sediment Core Collection Form

Project: AOC4 - Downwash
 Date: 6/3/20
 Weather: Obs, partly sunny
 Logged By: KM

Location ID: SC211
 Attempt No.: 2
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: TD, KM, PJ, JS

Field Collection Coordinates:
 Lat/Northing: 1775823.90

Long/Easting: 195378.87

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: -19.0 ft

B. Water Level Measurements

Time: 1242
 Height: 3.86 ft
 Source: RTK tide station

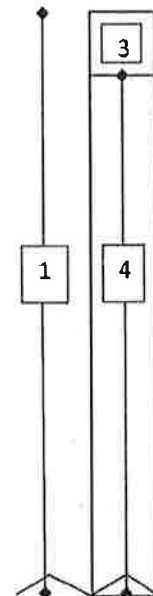
C. Mudline Elevation (ft MLLW)

-15.14 ft

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Drive Length: 4.75 ft
3. Headspace Measurement: 0.8 ft
4. Recovery Measurement: 4.2 ft 128.0 cm
5. Recovery Percentage: 88.4%
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes: Drive freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Uniformly dk gray silt to depth

Notes:

Gravity in recovery

Project: AOC4 - DUNHAMISH
 Date: 6/12/20
 Weather: 50s, Cloudy
 Logged By: CDurand

Location ID: SC212
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) (Shoaling)
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1275763.93

Long/Easting: 195321.93

A. Water Depth
 DTM Depth Sounder: 19.98 ft.
 DTM Lead Line:

B. Water Level Measurements
 Time: 1306
 Height: 5.93 ft.
 Source: RTK

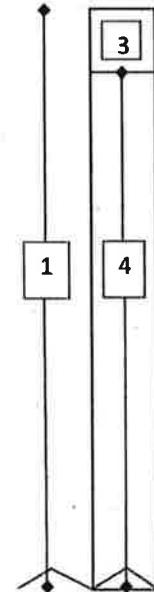
C. Mudline Elevation (ft MLLW)
 - 14.05

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 60 in
3. Headspace Measurement: 4 in
4. Recovery Measurement: 56 in @ 142.2 cm
5. Recovery Percentage: 93.3
6. Core Accepted: (Yes) No

Drive Notes: Freely driven
 29.0 cm shoaling material
 Drove 5 feet.



Core Sections To Process:

A: 0-89.0

B: —

C: —

Z: 89.0-119

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-bottom silt w/ sand dark gray

Notes:

Gravity Anemometer

Project: AOC4 - Duwamish
 Date: 6/23/20
 Weather: 70s, sunny
 Logged By: CDurand

Location ID: SC 213
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MP, TD, CD

Field Collection Coordinates:
 Lat/Northing: 19 5224.68

Long/Easting: 127 5863.09

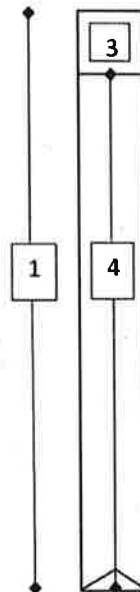
A. Water Depth
 DTM Depth Sounder: 3.23 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1216
 Height: -1.60 ft
 Source: RTK tide station

C. Mudline Elevation
 - 14.83 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: 5 feet
 - Penetration Depth: 56 ft / 170 / 172.2 cm
 - Headspace Measurement: 6 in
 - Recovery Depth: 54 ft / 165 / 167.2 cm
 - Recovery Percentage: 96.4
 - Core Accepted: (Yes) / No



- Core Sections To Process:
- A: 0 to 65.2
 - B: _____
 - C: _____
 - Z: 65.2 to 95.2

Drive Notes:
 5.2 cm shoaling material
 Drove freely to depth

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

wet, dark grey silt; 0-10cm
 moist, dark grey silt; 10cm - end of core
 trace woody debris; 0-5cm
 No odor throughout

Notes:
 Gravity vibracore

Sediment Core Collection Form

Project: AOC4-Duwamish
Date: 06/04/20
Weather: 59 cloudy
Logged By: CDurand

Location ID: SC214
Attempt No.: 1
Core Type: Intertidal Subtidal Shoaling
Field Staff: PS, JS, TD, CD

Field Collection Coordinates:
Lat/Northing: 1275726.12

Long/Easting: 195177.87

A. Water Depth
DTM Depth Sounder: 5.55 ft
DTM Lead Line:

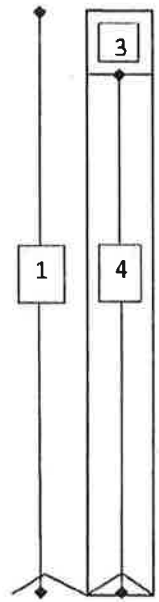
B. Water Level Measurements
Time: 1022
Height: -1.91 ft.
Source: RTK

C. Mudline Elevation (ft MLLW)
-7.46

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 ft
- 2. Drive Length: 54 in
- 3. Headspace Measurement: 20 in
- 4. Recovery Measurement: 40 in / 101.6 cm
- 5. Recovery Percentage: 74.1
- 6. Core Accepted: Yes No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
Very soft unconsolidated surface
Drove freely

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Core material unconsolidated & soupy
DK gray silt to depth

Notes:
Talked to Susie, keeping this one after 3 attempts, best core.
Material not compacting much from time of collection.
EPA gave us OK to process this core.

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Duwamish
Date: 06/05/20
Weather: 50s, partly cloudy
Logged By: C Durand

Location ID: IT215
Attempt No.: 1
Core Type: Intertidal Subtidal Shoaling
Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
Lat/Northing: 1275686.31
Long/Easting: 195050.38

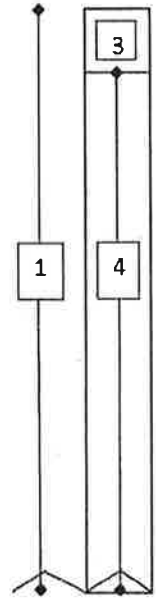
A. Water Depth
DTM Depth Sounder: 0.0 ft.
DTM Lead Line:

B. Water Level Measurements
Time: 0842
Height: 2.82 ft.
Source: RTK

C. Mudline Elevation (ft MLLW)
2.82

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: 5
 - Drive Length: 18"
 - Headspace Measurement: 42"
 - Recovery Measurement: 18" & 45.7 cm
 - Recovery Percentage: 100
 - Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

X: _____

Z: _____

Drive Notes: Hit refusal at 18"

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Coarse brown sand to 40 cm
gravel below 40 cm

Notes:

Gravity interferer

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/22/20
 Weather: 70s, Sunny
 Logged By: CDurand

Location ID: SC216
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 195086.46

Long/Easting: 1275781.49

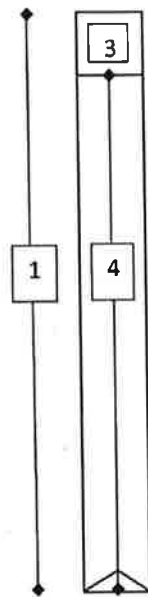
A. Water Depth
 DTM Depth Sounder: 9.85 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1212
 Height: -2.12 ft
 Source: RTK tide station

C. Mudline Elevation
 -11.97 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: 10 feet
 - Penetration Depth: 90 ft/in 228.6 cm
 - Headspace Measurement: 32 in
 - Recovery Depth: 88 ft/in 223.5 cm
 - Recovery Percentage: 97.8
 - Core Accepted: (Yes / No)



Core Sections To Process:

- A: 0 to 46.2
- B: 46.2 to 92.4
- C: 92.4 to 152.4
- Z: 152.4 to 182.4

Drive Notes:
 92.4cm shoaling material.
 Drove freely to depth

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10cm, sediment is soft + wet -> silty -> Dark Brown, No odor
 10-20cm end; silt; ~~black~~ black; moist; ↑
 20-40cm; trace organic matter visible after sediment core split in half

Notes:
 Gravity vibracore

Project: AOC4 - Duwamish
 Date: 6/12/20
 Weather: 50%, cloudy
 Logged By: CDurant

Location ID: SCa17
 Attempt No.: 4
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1275849.78

Long/Easting: 19510278

A. Water Depth
 DTM Depth Sounder: 22.71 ft.
 DTM Lead Line: _____

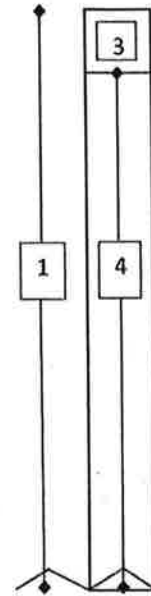
B. Water Level Measurements
 Time: 1122
 Height: 7.63 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)
-15.08

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 feet
2. Drive Length: 74 in
3. Headspace Measurement: 48 in
4. Recovery Measurement: 72 in & 182.9 cm
5. Recovery Percentage: 97.3
6. Core Accepted: (Yes) / No



Core Sections To Process:

- C: _____
- B: _____
- A: 0-62.4
- Z: 62.4-90

Drive Notes: Drive freely
used a 10 foot barrel with a chuck.
Also, removed a few plastic fingers
to allow material into barrel.
Drove about 6 feet.
2.4cm shoaling material

Core Field Observations and Description: 2.4 cm shoaling material
 Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

silt w/ sand, dark gray s-bottom

Notes:
Gravity vibracore

Project: AOC4 - Duwanish
 Date: 6/19/20
 Weather: 70s, partly cloudy
 Logged By: E Durand

Location ID: IT218
 Attempt No.:
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TP, CD

Field Collection Coordinates:
 Lat/Northing: 194975.18

Long/Easting: 1275728.80

A. Water Depth

DTM Depth Sounder: ft
 DTM Lead Line: - 0.5 ft

B. Water Level Measurements

Time: 1219
 Height: 0.97 ft
 Source: RTK tide station

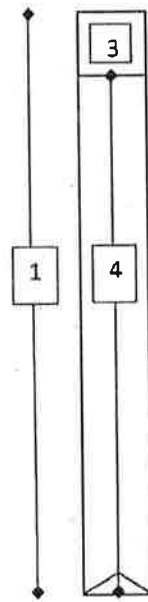
C. Mudline Elevation

+0.47 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 40 ft / 101.6 cm
3. Headspace Measurement: 20 in
4. Recovery Depth: 40 ft / 101.6 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top of core covered with seaweed. Remainder of core homogeneous coarse sand and silt. From 62 to 74 cm there is a large piece of clay-like material.

Notes:

Gravity obtained

Project: AOC4 - Oahu Watershed
 Date: 6/12/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: SC219
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1275809.21

Long/Easting: 194973.08

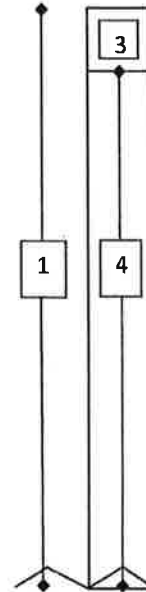
A. Water Depth
 DTM Depth Sounder: 14.39 ft.
 DTM Lead Line:

B. Water Level Measurements
 Time: 0946
 Height: 7.76 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)
- 11.63

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 10 feet
 2. Drive Length: 96 in
 3. Headspace Measurement: 31 in
 4. Recovery Measurement: 89 in 226.1 cm
 5. Recovery Percentage: 92.7
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: 51.0 - 51.85
 B: 51.35 - 102.7
 C: 102.7 - 162.7
 Z: 162.7 - 192.7

Drive Notes: Drove freely
102.7 cm shoaling material
Stopped driving at 8 feet

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-50cm soft dark silt, 50-end of core dark silt w/sand

Notes:

Gravity increased

Project: AOC4 - Diwamish
 Date: 6/12/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: SC220
 Attempt No.: 1
 Core Type: Intertidal ~~Subtidal~~ Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1275943.04

Long/Easting: 194926.08

A. Water Depth
 DTM Depth Sounder: 21.95 ft
 DTM Lead Line:

B. Water Level Measurements
 Time: 0923
 Height: 7.67 ft
 Source: RTK

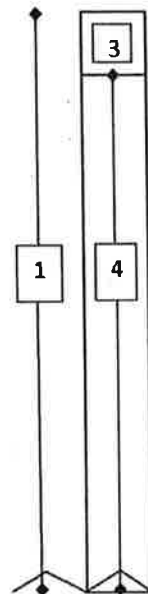
C. Mudline Elevation (ft MLLW)
 -14.28

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 60 in
3. Headspace Measurement: 6 in
4. Recovery Measurement: 54 in ft 137.2 cm
5. Recovery Percentage: 90
6. Core Accepted: Yes No

Drive Notes: Drove freely
 21.9 cm shoaling material
 Stopped driving at 5 feet



Core Sections To Process:

- A: 0-81.9
 B: _____
 C: _____
 Z: 81.9-111.9

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-26 cm silty w/ sand and shell debris, dark grey
 26 - end is silty and very dark grey

Notes:

Gravity vibrocorer

Project: AOC4 - Ouwamism
 Date: 6/14/20
 Weather: 76%, partly cloudy
 Logged By: C Durand

Location ID: FT 221
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 19 4757.66

Long/Easting: 1275769.72

A. Water Depth

DTM Depth Sounder: ft
 DTM Lead Line: +0.5 ft

above water line

B. Water Level Measurements

Time: 1236
 Height: 1.58 ft
 Source: RTK tide station

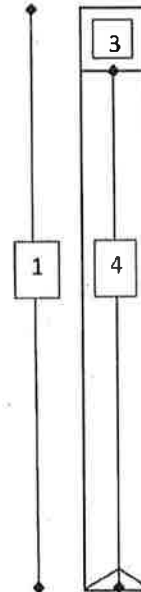
C. Mudline Elevation

+2.08 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 24 ft/in 61.0 cm
3. Headspace Measurement: 38 in
4. Recovery Depth: 22 ft/in 55.9 cm
5. Recovery Percentage: 91.7
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Source d covering half of core top (removed prior to processing)
First ~40 cm brown coarse sand and silt. Bottom portion of core
dark brown/black silt and sand. No odor

Notes:

Gravity vibrator

Project: ADL4-Duwamish
 Date: 6/12/20
 Weather: 50s, cloudy
 Logged By: C Durand

Location ID: SC222
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PT, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1275869.85
 E

Long/Easting: 194776.98
 N

A. Water Depth
 DTM Depth Sounder: 20.25 ft.
 DTM Lead Line: _____

B. Water Level Measurements
 Time: 0858
 Height: 7.47 ft.
 Source: RTK

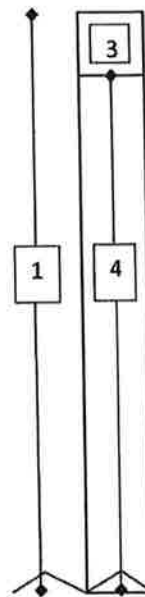
C. Mudline Elevation (ft MLLW)
-12.78

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 feet
2. Drive Length: 86 in
3. Headspace Measurement: 35 in
4. Recovery Measurement: 85 in @ 215.9 cm
5. Recovery Percentage: 98.8
6. Core Accepted: (Yes) / No

Drive Notes: Drove freely
67.7 cm shoaling material
stopped driving around 7 feet.



Core Sections To Process:

- A: 0-67.7
 B: 67.7-127.7
 C: _____
 Z: 127.7-157.7

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

top 5-10cm brown, soupy. Rest of core homogen. Dark grey silt

Notes:

Gravity removed

Project: AOC4 - Dewamish
 Date: 6/12/20
 Weather: 50s, cloudy
 Logged By: C Durand

Location ID: SC 223
 Attempt No.: 1
 Core Type: Intertidal ~~Subtidal~~ Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Nothing: 1275973.53

Long/Easting: 194784.77

A. Water Depth
 DTM Depth Sounder: 21.46 ft
 DTM Lead Line:

B. Water Level Measurements
 Time: 0829
 Height: 7.21 ft
 Source: RTK

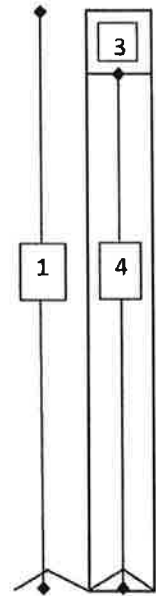
C. Mudline Elevation (ft MLLW)
 - 14.25

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 60 in
3. Headspace Measurement: 7 in
4. Recovery Measurement: 53 in ft 135 cm
5. Recovery Percentage: 88.3
6. Core Accepted: Yes / No

Drive Notes: Drive freely.
 22.9 cm shoaling material



Core Sections To Process:

- A: 0 - 82.9
- B: _____
- C: _____
- Z: 82.9 - 112.9

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0 - 20 cm silt gray 20 - 90 cm silt w/sand, gray.
 90 - 120 silt, 120 - bottom silt w/ med sand

Notes:

Gravity vibracore

Project: AOC4-DUNNOMISH
Date: 6/10/20
Weather: 50s, cloudy
Logged By: CDurand

Location ID: IT224
Attempt No.: 4
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: PJ, JS, CD, TD

Field Collection Coordinates:
Lat/Northing: 1275819.97

Long/Easting: 194657.00

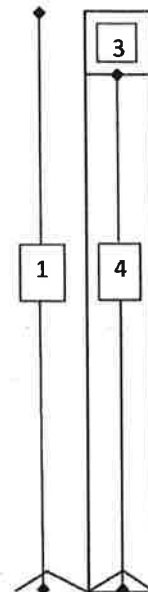
A. Water Depth
DTM Depth Sounder: 11.81 ft.
DTM Lead Line:

B. Water Level Measurements
Time: 0808
Height: 9.50 ft.
Source: RTK

C. Mudline Elevation (ft MLLW)
- 2.31

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 feet
 2. Drive Length: 48 in
 3. Headspace Measurement: 18 in
 4. Recovery Measurement: 42 in ft 107 (cm)
 5. Recovery Percentage: 87.5
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- AC: _____
- Z: _____

Drive Notes: to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt to depth

Notes:

Gravity shaker

Sediment Core Collection Form

Project: AOC4 - Duwanish
 Date: 6/22/20
 Weather: 60s, sunny
 Logged By: CDurand

Location ID: SC225
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194634.15

Long/Easting: 1275903.65

A. Water Depth
 DTM Depth Sounder: 10.96 ft
 DTM Lead Line: ft

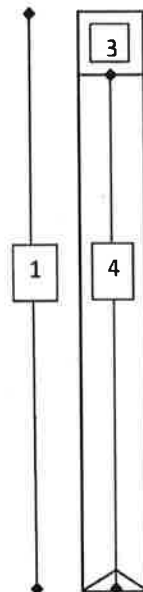
B. Water Level Measurements
 Time: 1148
 Height: -1.88 ft
 Source: RTK tide station

C. Mudline Elevation
 -12.84 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 feet
2. Penetration Depth: 72 ft/in. 183.9 cm
3. Headspace Measurement: 49 in CD
4. Recovery Depth: 57.0 71 ft/in. 177.8 cm 180.3
5. Recovery Percentage: 97.8 98.6
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: 0 to 65.8
- B: 65.8 to 125.8
- C:
- Z: 125.8 to 155.8

Drive Notes:

65.8 cm shoaling material.
 Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~15 cm loose wet silt, dark brown color. Remaining core is homogeneous dark brown/black silt with coarse gravel debris visible.

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - DOWCOM:sh
 Date: 6/19/20
 Weather: 60%, Partly cloudy
 Logged By: CDurand

Location ID: IT227
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194658.20

Long/Easting: 1276110.51

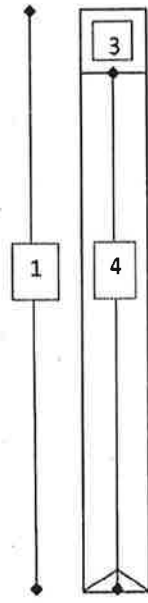
A. Water Depth
 DTM Depth Sounder: 0ft
 DTM Lead Line: 2.0 ft
 - 2.1

B. Water Level Measurements
 Time: 1209
 Height: 0.71 ft
 Source: RTK tide station

C. Mudline Elevation
 - 1.39 (ft MLLW)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 Feet
 2. Penetration Depth: 38 ft / 96.5 cm
 3. Headspace Measurement: 23 in
 4. Recovery Depth: 37 ft / 94.0 cm
 5. Recovery Percentage: 97.4
 6. Core Accepted: (Yes) / No

Recovery Measurements (prior to cuts)



- Core Sections To Process:
- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10 cm: Wet medium sand and silt, brown.

10-35 cm: Dark grey silt.

35 cm - downward uniform fine-medium sand and dark silt.

~55 cm: layer of woody debris.

Notes:

Gravity vibracore

Project: AOC4-Duwamish
Date: 6/10/20
Weather: 60s, Partly Cloudy
Logged By: C. Durand

Location ID: IT228
Attempt No.: 10-45
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
Lat/Northing: 1276141.83

Long/Easting: 194675.38

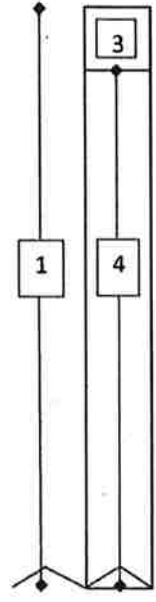
A. Water Depth
DTM Depth Sounder: 4.30 ft
DTM Lead Line:

B. Water Level Measurements
Time: 1149
Height: 4.44 ft
Source: RTK

C. Mudline Elevation (ft MLLW)
+ 0.14

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 feet
 2. Drive Length: 48 in
 3. Headspace Measurement: 20 in
 4. Recovery Measurement: 40 in (102 cm)
 5. Recovery Percentage: 83
 6. Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

A: _____

Z: _____

Drive Notes: Drive fully

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

~~100%~~ ^{med.} Gray sand to depth.

Notes:
Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwanish
 Date: 6/19/20
 Weather: 60s, partly cloudy
 Logged By: C Durand

Location ID: IT224
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194626.39

Long/Easting: 1276162.91

A. Water Depth

DTM Depth Sounder: ft
 DTM Lead Line: 1.2 ft

B. Water Level Measurements

Time: 0748
 Height: 4.24 ft
 Source: RTK tide station

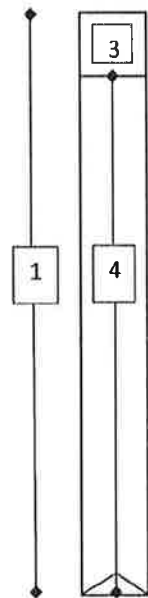
C. Mudline Elevation

+3.04 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 30 ft (16) 50.8 cm
3. Headspace Measurement: 40.5 in
4. Recovery Depth: 19.5 ft (16) 49.5 cm
5. Recovery Percentage: 97.5
6. Core Accepted (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

top 25 cm - silt w/ majority medium + coarse sand, multi-colored sand
 remaining core - dark grey / brown silt w/ some medium sand
 no doc

Notes:

Gravity increased

Project: AOC4 - Duwamish
Date: 6/12/20
Weather: 50s, cloudy
Logged By: CDurand

Location ID: SC230
Attempt No.: 1
Core Type: Intertidal Subtidal Shoaling
Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
Lat/Northing: 1276024.68

Long/Easting: 194576.44

A. Water Depth
DTM Depth Sounder: 20.87 ft.
DTM Lead Line:

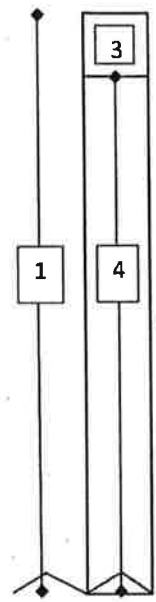
B. Water Level Measurements
Time: 0807
Height: 6.93 ft.
Source: RTK

C. Mudline Elevation (ft MLLW)
- 13.94

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 60 in
3. Headspace Measurement: 3.5 in
4. Recovery Measurement: 56.5 in (143.5 cm)
5. Recovery Percentage: 94.2
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: 0-32.3
- B: 32.3-92.3
- ex: _____
- Z: 92.3-122.3

Drive Notes: Drive freely
32.3 cm shoaling material

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dark grey throughout, no layering

Notes: Gravity corer

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/19/20
 Weather: F0s, partly cloudy
 Logged By: CDurand

Location ID: SC231
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) (Subtidal (0-60 or Shoaling))
 Field Staff: JS, MP, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194523.85

Long/Easting: 1275934.54

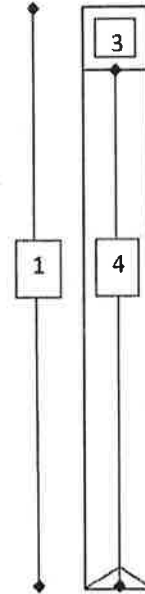
A. Water Depth
 DTM Depth Sounder: 13.0 ft
 DTM Lead Line: 13.1 ft

B. Water Level Measurements
 Time: 1152
 Height: 0.48 ft
 Source: RTK tide station

C. Mudline Elevation
12.62 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 10 feet
 2. Penetration Depth: 84 ft / (213.4 cm)
 3. Headspace Measurement: 47 in
 4. Recovery Depth: 73 ft / (185.4 cm)
 5. Recovery Percentage: 86.9
 6. Core Accepted: (Yes) No



Core Sections To Process:

- A: 0 to 72.5
 B: 72.5 to 132.5
 C: _____
 Z: 132.5 to 162.5

Drive Notes:
Drove freely to depth
72.5 cm shoaling material

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10cm - SILT, fine sand, wet, dark grey
10-30cm - SILT, fine sand, moist, dark grey
band of light grey fine sand @ 30cm, trace wood debris
32cm to bottom of core = SILT, fine sand, moist, dense, dark grey

Notes:
Gravity vibrocorer

Sediment Core Collection Form

Project: AOC4-Duwamish
 Date: 06/04/20
 Weather: 61° Cloudy
 Logged By: C Burand

Location ID: IT SC232 0-45W
 Attempt No.: 1
 Core Type: (Intertidal) (Subtidal) Shoaling
 Field Staff: PS, SS, TD, CA

Field Collection Coordinates:
 Lat/Northing: 1275839.48

Long/Easting: 194509.41

A. Water Depth

DTM Depth Sounder: 0.0 ft.
 DTM Lead Line: _____

B. Water Level Measurements

Time: 1105
 Height: -1.74 ft.
 Source: RTK

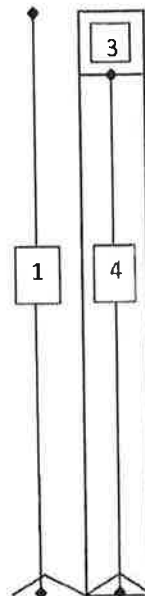
C. Mudline Elevation (ft MLLW)

-1.74

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'
2. Drive Length: 48"
3. Headspace Measurement: 2in
4. Recovery Measurement: 39 in ft 99.1 cm
5. Recovery Percentage: 81.25
6. Core Accepted: (Yes) No



Core Sections To Process:

- A _____
- B: _____
- C _____
- Z: _____

Drive Notes:

Drive freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dk gray, f silt to depth.

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Ouwamish
 Date: 6/19/20
 Weather: 60s, partly cloudy
 Logged By: C. Durand

Location ID: IT233
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194397.78

Long/Easting: 1275849.95

A. Water Depth
 DTM Depth Sounder: 4.30 ft
 DTM Lead Line: _____ ft

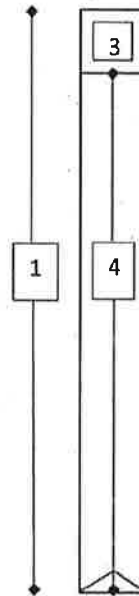
B. Water Level Measurements
 Time: 0743
 Height: 4.34 ft
 Source: RTK tide station

C. Mudline Elevation
+0.04 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 43 ft/in 109.2 cm
3. Headspace Measurement: 1.7 in
4. Recovery Depth: 43 ft/in 109.2 cm
5. Recovery Percentage: 100
6. Core Accepted: Yes / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 30 cm light brown wet silt with visible coarse woody debris
Remaining core is homogeneous dark brown/black silt and fine sand. No odor detected

Notes:

Gravity inboard

Project: AOC4 - Ouwamish
 Date: 6/19/20
 Weather: 70s, partly cloudy
 Logged By: CDurand

Location ID: SC234
 Attempt No.:
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194427.00

Long/Easting: 1275949.68

A. Water Depth

DTM Depth Sounder: ft
 DTM Lead Line: 12.2 ft

B. Water Level Measurements

Time: 1125
 Height: -0.23 ft
 Source: RTK tide station

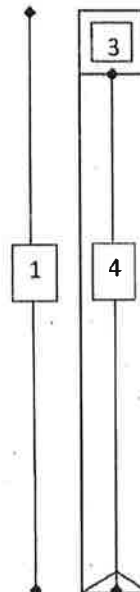
C. Mudline Elevation

-12.43 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 feet
2. Penetration Depth: 90 ft/m 228.6 cm
3. Headspace Measurement: 42 in
4. Recovery Depth: 78 ft/m 198.1 cm
5. Recovery Percentage: 86.7
6. Core Accepted: (Yes) No



Core Sections To Process:

A: 0 to 78.3

B: 78.3 to 138.3

C:

Z: 138.3 to 168.3

Drive Notes:

Drove freely to depth,
 78.3 cm shoaling material

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-15 cm is Wet, soupy,

Remainder of core uniform in appearance, Dark die grey

No immediate smell/odor.

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwanish
 Date: 6/10/20
 Weather: 60s, partly cloudy
 Logged By: Courand

Location ID: SC235
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276058.00

Long/Easting: 194459.31

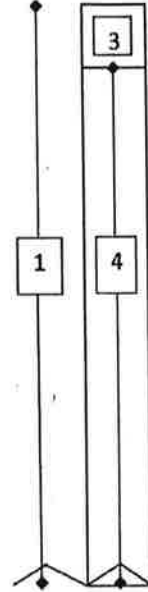
A. Water Depth
 DTM Depth Sounder: 17.10 ft
 DTM Lead Line:

B. Water Level Measurements
 Time: 1208
 Height: 3.68 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
 -13.42

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:
 1. Core Tube Length: 5 feet
 2. Drive Length: 60 in
 3. Headspace Measurement: 10.5
 4. Recovery Measurement: 49.5 ft in 120cm
 5. Recovery Percentage: 82.5
 6. Core Accepted Yes / No



Core Sections To Process:

C
 A: 0-48.2
 BA: 48.2-108.2
 Z: 108.2-138.2

Drive Notes: Drove freely
 48.2 cm shoaling material

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

A Dark gray silt.
 B ↓
 C ↓

Notes: Gravity vibrator

Sediment Core Collection Form

Project: 1004 - DUWENMISH
 Date: 6/4/20
 Weather: Sds, cloudy
 Logged By: JEM

Location ID: IT236 45m
 Attempt No.: 1 0
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: R. M. Park, J. Hearshey, G. Parker, A. Muth

Field Collection Coordinates:

Lat/Northing: ~~12751735.89~~
1276149.54

Long/Easting: 194502.73

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: 0.75 ft

B. Water Level Measurements

Time: 1008
 Height: -1.60 ft
 Source: RTK h/e station

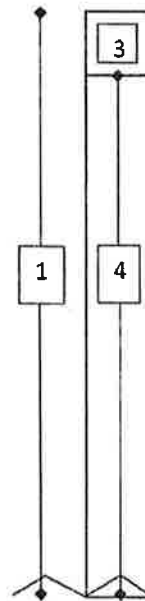
C. Mudline Elevation (ft MLLW)

-2.35

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5.1 ft
2. Drive Length: 2.9 ft
3. Headspace Measurement: 2.85 ft
4. Recovery Measurement: 2.25 ft 68.6 cm
5. Recovery Percentage: 77.6%
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A:
B:
C:
Z:

Drive Notes: to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt & fine sand to 45cm.
Coarse sand ~ 45cm, gray brown.

Notes:

RSS vibracored

Sediment Core Collection Form

Project: AOC4 - DuWanish
 Date: 6/19/20
 Weather: 70s, partly cloudy
 Logged By: C. Durand

Location ID: SC237
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) (Subtidal (0-60 or Shoaling))
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194337.19

Long/Easting: 1275966.63

A. Water Depth

DTM Depth Sounder: ft
 DTM Lead Line: 11.5 ft

B. Water Level Measurements

Time: 1108
 Height: -0.39 ft
 Source: RTK tide station

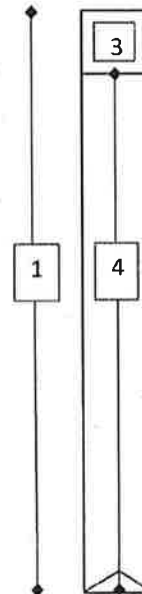
C. Mudline Elevation

-11.89 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 Feet
2. Penetration Depth: 90 ft / (in) 228.6 cm
3. Headspace Measurement: 40 in
4. Recovery Depth: 80 ft / (in) 203.2 cm
5. Recovery Percentage: 88.9
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: 0 to 47.4
- B: 47.4 to 94.8
- C: 94.8 to 154.8
- Z: 154.8 to 184.8

Drive Notes:

94.8 cm shoaling material
 Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Homogeneous dark brown-green mud with no odor
 0-Dim wet

Notes:

Gravity vibro corer

Project: AOC4 - Duwamish
 Date: 6/10/20
 Weather: 60s, partly cloudy
 Logged By: Courand

Location ID: SC238
 Attempt No.: 1
 Core Type: Intertidal ~~Subtidal~~ (Shoaling)
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276081.12

Long/Easting: 194343.45

A. Water Depth

DTM Depth Sounder: 19.89 ft.
 DTM Lead Line:

B. Water Level Measurements

Time: 1051
 Height: 6.63 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)

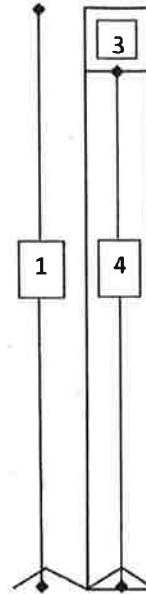
- 13.26

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 feet
2. Drive Length: 78 in
3. Headspace Measurement: 49 in
4. Recovery Measurement: 71 in @ 180 cm
5. Recovery Percentage: 91
6. Core Accepted: (Yes) / No

Drive Notes: Drove freely - stopped at 6 1/2 ft.
 shoal material 53.0 cm



Core Sections To Process:

- C:
- A: 0-53 shoal
- B: 53-113 (60cm core)
- Z: 113-143

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

A - Dark gray silt
 B -
 Z - ↓

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Duwanish
 Date: 6/19/20
 Weather: 60s, partly cloudy
 Logged By: CDurand

Location ID: IT239
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194224.52

Long/Easting: 1275858.48

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: -0.8 ft

B. Water Level Measurements

Time: 0757
 Height: 3.80 ft
 Source: RTK tide station

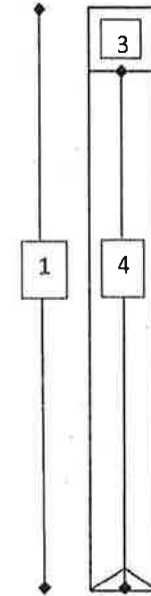
C. Mudline Elevation

+3.00 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 40 ft (in) 101.6 cm
3. Headspace Measurement: 21 in
4. Recovery Depth: 39 ft (in) 99.1 cm
5. Recovery Percentage: 97.5
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 20 cm lose gravel, coarse sand, and silt. Large cobble present in top layer. Remaining core uniform silt and fine sand. No detectable odor.

Notes:

Gravity inboard

Sediment Core Collection Form

Project: AOC4-Duwamish

Location ID: IT240

Date: 06/05/20

Attempt No.: 1 0-45m

Weather: 50s, partly cloudy

Core Type: Intertidal Subtidal Shoaling

Logged By: CDurand

Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:

Lat/Northing: 1275096.02

Long/Easting: 194144.83

A. Water Depth

DTM Depth Sounder: 0.5 ft.

DTM Lead Line:

B. Water Level Measurements

Time: 0912

Height: 1.26 ft.

Source: RTK

C. Mudline Elevation (ft MLLW)

0.76

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'

2. Drive Length: 30 in

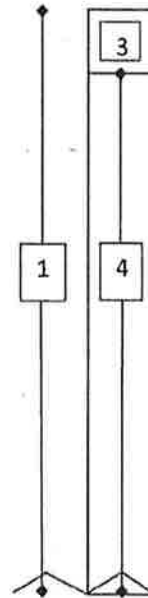
3. Headspace Measurement: 33 in

4. Recovery Measurement: 27 in & 68.6 cm

5. Recovery Percentage: 90

6. Core Accepted: (Yes) / No

Drive Notes: TO refusal



Core Sections To Process:

A

B:

C

Z:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Low tide, we got as close as possible to target.

dk brown/grey silt w/ sand & tv. gravel to 35cm

dk grey silt below 35cm to depth.

Notes:

army vibrator

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/19/20
 Weather: 70%, partly cloudy
 Logged By: C Durward

Location ID: SC 241
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194-187.68

Long/Easting: 1276029.12

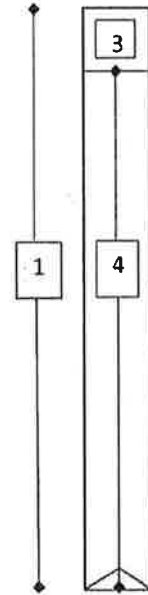
A. Water Depth
 DTM Depth Sounder: ft
 DTM Lead Line: 12.2 ft

B. Water Level Measurements
 Time: 1037
 Height: -0.65 ft
 Source: RTK tide station

C. Mudline Elevation
13.85 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 10 Feet
 2. Penetration Depth: 72 ft (in) 182.9 cm
 3. Headspace Measurement: 54 in
 4. Recovery Depth: 66 ft (in) 167.6 cm
 5. Recovery Percentage: 91.7
 6. Core Accepted: (Yes) No



Core Sections To Process:

- A: 0 to 65.5
- B: 65.5 to 125.5
- C:
- Z: 125.5 to 155.5

Drive Notes:

65.5 cm shoaling material.
Drive freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Homogeneous, SILT, fine sand, dark grey,
dense moist (top 10cm wet)

Notes:

Gravity in situ core

Project: AOC4 - Duwamish
 Date: 6/19/20
 Weather: 70s, partly cloudy
 Logged By: CDurand

Location ID: SC242
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194202.80

Long/Easting: 1276132.52

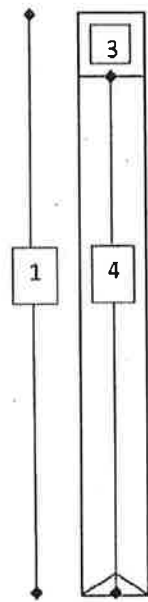
A. Water Depth
 DTM Depth Sounder: ft
 DTM Lead Line: 11.7 ft

B. Water Level Measurements
 Time: 1003
 Height: -0.43 ft
 Source: RTK tide station

C. Mudline Elevation
 -12.13 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:
 1. Core Tube Length: 10 feet
 2. Penetration Depth: 80 ft (in) 203.2 cm
 3. Headspace Measurement: 5 in CD
 4. Recovery Depth: 69.7 ft (in) 182.9 cm 175.3 cm
 5. Recovery Percentage: 86.3
 6. Core Accepted: Yes / No



Core Sections To Process:
 A: 0 to 87.5
 B: 87.5 to 147.5
 C: ~~8~~ CD
 z: 147.5 to 177.5

Drive Notes:
 87.5 cm shoaling material
 Hit refusal

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Homogeneous, silt, fine sand, dark grey, dense, moist

Notes:
 Gravity vibrator

Project: AO04-Dowdewish
 Date: 6/4/20
 Weather: 60s, partly sunny
 Logged By: EM

Location ID: IT243
 Attempt No.: 1 0-45
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: EM, CP, JH, AM

Field Collection Coordinates:
 Lat/Northing: 1276199.23

Long/Easting: 194241.74

A. Water Depth
 DTM Depth Sounder:
 DTM Lead Line: -4.7 ft

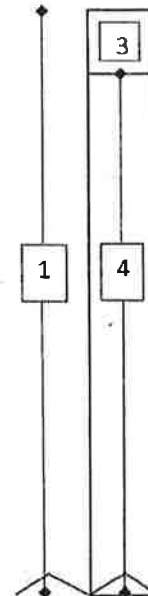
B. Water Level Measurements
 Time: 1309
 Height: 2.14 ft
 Source: RTK Tide Station

C. Mudline Elevation (ft MLLW)
-2.56

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5.1 ft
2. Drive Length: 4.0 ft
3. Headspace Measurement: 1.5 ft
4. Recovery Measurement: 3.6 ft 109.7 cm
5. Recovery Percentage: 90%
6. Core Accepted: (Yes) No



Core Sections To Process:

- A:
- B:
- C:
- Z:

Drive Notes: To refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dk gray silt w/ fr-sand to depth

Notes:

RSS vibro corer

Sediment Core Collection Form

Project: ADC4 - Duwamish
 Date: 6/10/20
 Weather: 70s, partly cloudy
 Logged By: C Durand

Location ID: JT244
 Attempt No.: 1 0-45
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276211.49

Long/Easting: 194193.48

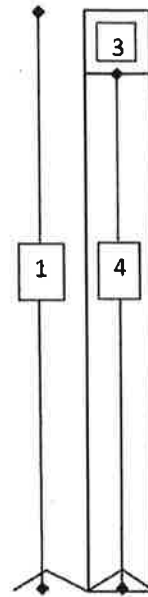
A. Water Depth
 DTM Depth Sounder: 2.5 ft.
 DTM Lead Line:

B. Water Level Measurements
 Time: 1334
 Height: 0.88 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
 -1.62

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
- Core Tube Length: 5 feet
 - Drive Length: 36 in
 - Headspace Measurement: 27 in
 - Recovery Measurement: 33 in ft 83.8 cm
 - Recovery Percentage: 91.7
 - Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: To refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark gray silt to depth
 Some sand at 30-40 cm

Notes:

Gravity vibracore

Project: AOC4 - Oluokunish
 Date: 6/11/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: SC245
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) (Shoaling)
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276134.45

Long/Easting: 194133.79

A. Water Depth
 DTM Depth Sounder: 19.49 ft
 DTM Lead Line:

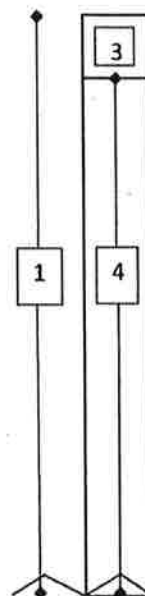
B. Water Level Measurements
 Time: 1151
 Height: 6.20 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)
 - 13.29

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 feet
2. Drive Length: 68 in
3. Headspace Measurement: 61 in
4. Recovery Measurement: 59 in & 149.9 cm
5. Recovery Percentage: 59 86.7
6. Core Accepted (Yes) / No



Core Sections To Process:

- A: 0 - 52.1 cm
 B: 52.1 - 112.1 cm
 C: —
 Z: 112.1 - 142.1 cm

Drive Notes: To refusal
 52.1 cm shoaling material

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

A Dark gray silt
 B ↓
 Z ↓

Notes:

Gravity vibrated

Sediment Core Collection Form

Project: AOC4 - Oahu
 Date: 6/18/20
 Weather: 60s, partly cloudy
 Logged By: CDurand

Location ID: SC246
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194079.08

Long/Easting: 1276035.03

A. Water Depth
 DTM Depth Sounder: 14.27 ft
 DTM Lead Line: ft

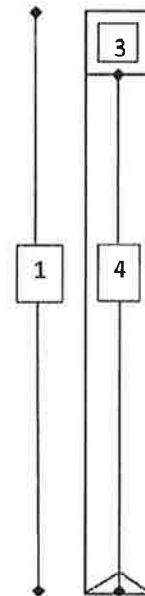
B. Water Level Measurements
 Time: 1130
 Height: 1.15 ft
 Source: RTK tide station

C. Mudline Elevation
 -13.12 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 60 ft (in) 152.4 cm
3. Headspace Measurement: 14 in
4. Recovery Depth: 46 ft (in) 116.8 cm
5. Recovery Percentage: 76.7
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: 0 to 57.3
- B: 57.3 to 117.3
- C:
- Z: 117.3 to 147.3

Drive Notes:

Drive freely to target
 57.3 cm shoaling material

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

top 5 cm - soft, wet silt

remaining core is homogeneous - dark grey/black silt

no odor, no debris

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: A014 - Duwamish
Date: 06/05/20
Weather: 57° cloudy
Logged By: CDurand

Location ID: IT 247
Attempt No.: 1
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
Lat/Northing: 1275941.63

Long/Easting: 194055.00

A. Water Depth

DTM Depth Sounder: -0.25 ft
DTM Lead Line:

B. Water Level Measurements

Time: 10:03
Height: -0.87 ft
Source: R+K

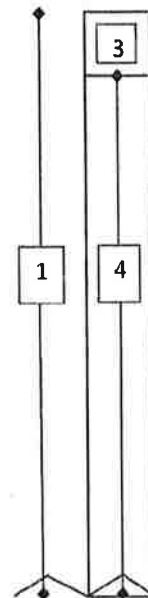
C. Mudline Elevation (ft MLLW)

-1.12

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'
2. Drive Length: 36"
3. Headspace Measurement: 28.0
4. Recovery Measurement: 21.5 ft in 80 cm
5. Recovery Percentage: 87.5
6. Core Accepted: (Yes) No



Core Sections To Process:

- A:
- B:
- C/A:
- Z:

Drive Notes: TO refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Brown-grey silt w/ f. sand to depth.

Notes:

Coravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/11/20
 Weather: 60s, Cloudy
 Logged By: CDurand

Location ID: IT248
 Attempt No.: 2 0-45
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1275906.54

Long/Easting: 193958.76

A. Water Depth

DTM Depth Sounder: 6.27 ft
 DTM Lead Line:

B. Water Level Measurements

Time: 0721
 Height: 7.84 ft
 Source: RTK

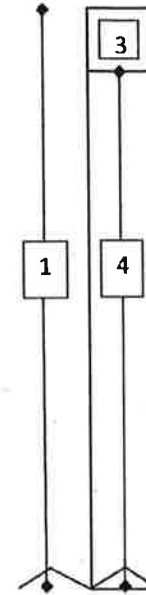
C. Mudline Elevation (ft MLLW)

+ 1.62

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 32 in
3. Headspace Measurement: 33.5 in
4. Recovery Measurement: 26.5 in / 67.3 cm
5. Recovery Percentage: 83% / 82.8
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: to refusal

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark gray silt w/ sand to depth

Notes: Gravity vibro core

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/18/20
 Weather: 60s, partly cloudy
 Logged By: CDurand

Location ID: SC249
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 194013.59

Long/Easting: 1276090.35

A. Water Depth
 DTM Depth Sounder: 3.9 ft
 DTM Lead Line: ft

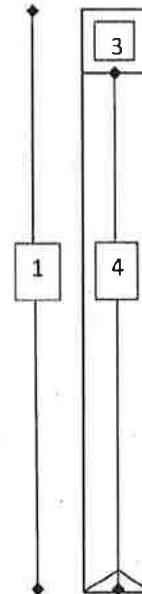
B. Water Level Measurements
 Time: 0921
 Height: 0.24 ft
 Source: RTK tide station

C. Mudline Elevation
 -13.67 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 56.68 ft (in) 147.3 cm 56 in
3. Headspace Measurement: 17.5 in
4. Recovery Depth: 42.5 ft (in) 108.0 cm
5. Recovery Percentage: 75.4
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: 0 to 40.5 cm
- B: 40.5 to 100.5 cm
- C:
- Z: 100.5 to 130.5 cm

Drive Notes:

40.5 cm shoaling material
 Drove freely to depth

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~10 cm light brown, wet, and soft silt with visible coarse organic matter - followed by 10-15 cm silt and coarse sand. Remaining core is dark brown/black silt and fine sand with some visible coarse organic matter.

Notes:

Gravity instrument

Project: AOC4 - Dowanish
 Date: 6/10/20
 Weather: 70° partly cloudy
 Logged By: CDurand

Location ID: SC250
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) (Shoaling)
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276176.79

Long/Easting: 193999.74

A. Water Depth
 DTM Depth Sounder: 15.06
 DTM Lead Line:

B. Water Level Measurements
 Time: 12:35
 Height: 2.88
 Source: RTK

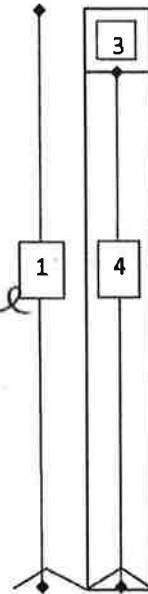
C. Mudline Elevation (ft MLLW)
 - 12.18

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 feet
2. Drive Length: 72 in
3. Headspace Measurement: 63.5 in
4. Recovery Measurement: 56.5 in 143.5 cm
5. Recovery Percentage: 78.5
6. Core Accepted: (Yes) / No

Drive Notes: Drove freely to 6ft. then refusal
 86 cm shoaling material



Core Sections To Process:

- E: _____
 A: 0-86
 B: 86-146
 Z: 146-176

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- A brown layer ~20cm, dk gray silt w/tn sands
- B dk gray silt w/snd
- Z dk gray silt.

Notes:

Gravity in situ

Sediment Core Collection Form

Project: 1004-DUNHAMISH
 Date: 6/4/20
 Weather: 60s, cloudy
 Logged By: KM

Location ID: SC251 ⁰⁻⁶⁰
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: CP, KM, JH, AM

Field Collection Coordinates:

Lat/Northing: 1276030.55 Long/Easting: 193874.37

A. Water Depth

DTM Depth Sounder:
 DTM Lead Line: -7.0 ft

B. Water Level Measurements

Time: 1138
 Height: -1.07
 Source: RTK tide station

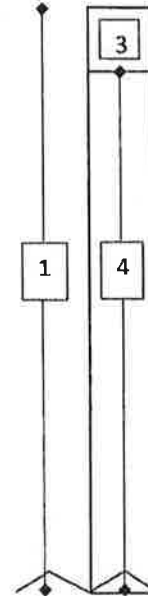
C. Mudline Elevation (ft MLLW)

-8.07

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5.1 ft
2. Drive Length: 5.1 ft
3. Headspace Measurement: 0.7 ft
4. Recovery Measurement: 4.4 ft 134.1 cm
5. Recovery Percentage: 86.3%
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
 B: _____
 CA: _____
 Z: _____

Drive Notes: Drove freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK - gray silt to depth.
F sand at 30-50 cm.

Notes:

RSS in browser

Sediment Core Collection Form

Project: AOC4-Duwamish
 Date: 6/11/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: IT252
 Attempt No.: 1 0-45
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1275942.53

Long/Easting: 193842.30

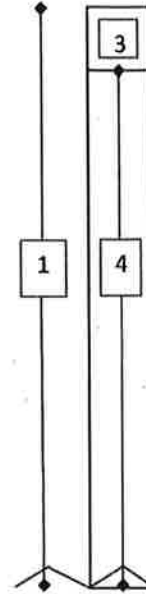
A. Water Depth
 DTM Depth Sounder: 10.27 ft
 DTM Lead Line: _____

B. Water Level Measurements
 Time: 0736
 Height: 8.01 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)
- 2.26

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 feet
 2. Drive Length: 60 in
 3. Headspace Measurement: 4.5 in
 4. Recovery Measurement: 55.5 in (140.2 cm)
 5. Recovery Percentage: 92.5
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- 2A
- B:
- A/C
- Z:

Drive Notes: Drive fully

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-30 cm Dark gray silt w/ sand
30 cm to depth dark gray silt

Notes:

Gravity vibracore

Project: AOC4-Duwamish
 Date: 6/11/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: IT253
 Attempt No.: 2 0-45
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:

Lat/Northing: 1275934.75

Long/Easting: 193736.55

A. Water Depth

DTM Depth Sounder: 7.25
 DTM Lead Line:

B. Water Level Measurements

Time: 0752
 Height: 8.20
 Source: RTK

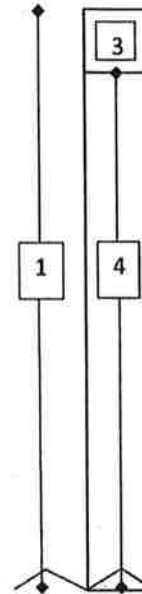
C. Mudline Elevation (ft MLLW)

+ 0.95

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 26 in
3. Headspace Measurement: 38.5 in
4. Recovery Measurement: 21.5 in / 54.6 cm
5. Recovery Percentage: 82.7
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
 B: _____
 A-C: _____
 Z: _____

Drive Notes: TO refusal.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dark gray silt w/sand to depth.
 gravel in fingers

Notes:

Gravity in bottom

Project: AOC4 - Ouwensh
 Date: 6/18/20
 Weather: 60s, Partly cloudy
 Logged By: C Durand

Location ID: SC254
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or (Shoaling)
 Field Staff: JS, MP, TD, CD

Field Collection Coordinates:
 Lat/Northing: 19383319

Long/Easting: 1276116.18

A. Water Depth
 DTM Depth Sounder: 13.36 ft
 DTM Lead Line: _____ ft

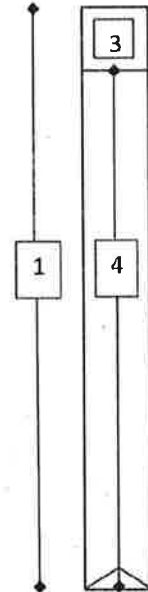
B. Water Level Measurements
 Time: 0940
 Height: -0.01 ft
 Source: RTK tide station

C. Mudline Elevation
 -13.37 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Penetration Depth: 60 ft (in) 152.4 cm
3. Headspace Measurement: 1.5 in
4. Recovery Depth: 58.5 ft (in) 148.6 cm
5. Recovery Percentage: 97.5
6. Core Accepted: (Yes) / No



Core Sections To Process:

A: 0 to 49.7

B: 49.7 to 109.7

C:

Z: 109.7 to 139.7

Drive Notes:

49.7 cm shoaling material

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~10 cm soft silt and fine sand following ~20 cm is mostly coarse sand. Remaining core is homogeneously silt and fine sand. H₂S odor present in A layer and B layer, slight H₂S in Z layer. No visible organic matter

Notes:

Gravity vibracore

Project: AOC4-Duwamish
 Date: 6/11/20
 Weather: 60s, cloudy
 Logged By: C Durand

Location ID: SC 255
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276211.06

Long/Easting: 193863.66

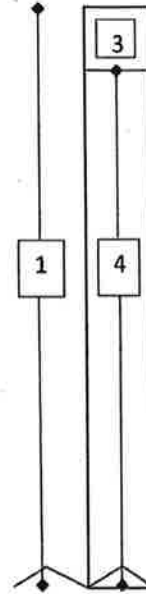
A. Water Depth
 DTM Depth Sounder: 20.44 ft.
 DTM Lead Line:

B. Water Level Measurements
 Time: 1013
 Height: 8.35 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)
 -12.09

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 10 feet
 2. Drive Length: 108 in
 3. Headspace Measurement: 20 in.
 4. Recovery Measurement: 100 in ft 254 (cm)
 5. Recovery Percentage: 92.6
 6. Core Accepted: Yes / No



Core Sections To Process:

- A: 0 - 12.091 bq
 B: 12.09 - 72.091 bq
 C: —
 Z: 72.09 - 102.091 bq
 A) 0 - 88.7 cm
 B) 88.7 - 148.7 cm
 Z) 148.7 - 178.7 cm

Drive Notes: Drive freely 9 ft.
 88.7 cm shoaling material

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

A Dark gray silt
 B ↓
 Z ↓

Notes:

Excessively vibrated

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/19/20
 Weather: 60%, partly cloudy
 Logged By: CDurand

Location ID: IT256
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193915.77

Long/Easting: 1276281.71

A. Water Depth
 DTM Depth Sounder: 8.07 ft
 DTM Lead Line: _____ ft

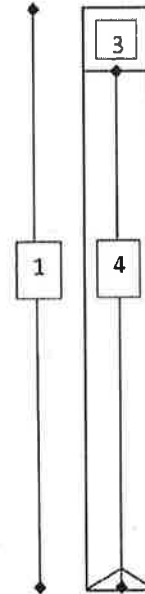
B. Water Level Measurements
 Time: 0736
 Height: 4.70 ft
 Source: RTK tide station

C. Mudline Elevation
-3.37 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 43 ft (in) 109.2 cm
3. Headspace Measurement: 18 in
4. Recovery Depth: 42 ft (in) 106.7 cm
5. Recovery Percentage: 97.7
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
Hit refusal

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 5cm brown and soft
Remainder homogeneous in appearance, dark brown
No odor.

Notes:
Gravity measured

Project: AOC4 - Duwamish
Date: 6/12/20
Weather: 50s, cloudy
Logged By: CDurand

Location ID: TT257
Attempt No.: 1
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: PJ, JS, TP, CD

Field Collection Coordinates:
Lat/Northing: 1270327.98

Long/Easting: 193926.67

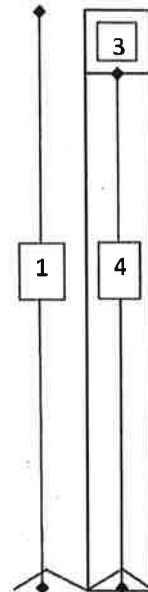
A. Water Depth
DTM Depth Sounder: 4.80 m
DTM Lead Line: -4.80 ft.
Lead line used for depth measurement

B. Water Level Measurements
Time: 0722
Height: 6.59 ft.
Source: RTK

C. Mudline Elevation (ft MLLW)
+1.79

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 feet
 2. Drive Length: 23 in
 3. Headspace Measurement: 42.5 in
 4. Recovery Measurement: 17.5 ft in 44.5 cm
 5. Recovery Percentage: 76.1
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A:
- B:
- C:
- Z:

Drive Notes: drove to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Sandy 0-10cm. Dark silt 10cm - bottom

Notes:

Gravily vibrated

Project: AOC4-DUNHAMISH
 Date: 6/12/20
 Weather: 50s, cloudy
 Logged By: C Durand

Location ID: IT258
 Attempt No.: 1 0-45
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276356.45

Long/Easting: 193855.90

A. Water Depth

DTM Depth Sounder: 5.12 ft.
 DTM Lead Line:

B. Water Level Measurements

Time: 0731
 Height: 6.60 ft.
 Source: RTK

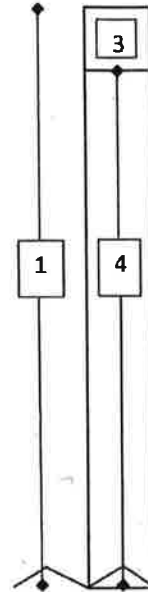
C. Mudline Elevation (ft MLLW)

+ 1.48

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 32 in
3. Headspace Measurement: 43 in
4. Recovery Measurement: 17 in & 43.2 (cm)
5. Recovery Percentage: 77.3
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A:
- B:
- C
- A
- Z:

Drive Notes: Drove to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 0-25 cm black silt w/ brown
 25cm to end is dark grey silt

Notes:

Gravity vibracore

Project: AOC4 - DUNNOMUSH
Date: 6/14/20
Weather: 60s, partly cloudy
Logged By: CDurand

Location ID: I 259
Attempt No.: 1
Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 193848.69

Long/Easting: 1276320.67

A. Water Depth

DTM Depth Sounding: 6.60 ft
DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0728
Height: 4.70 ft
Source: RTK tide station

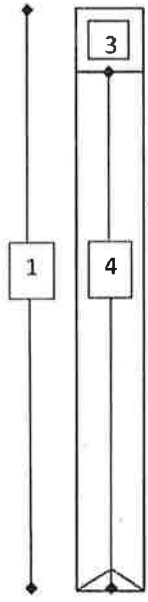
C. Mudline Elevation

-1.9 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 30 ft/in. 76.2 cm
3. Headspace Measurement: 31 in
4. Recovery Depth: 29 ft/in. 73.7 cm
5. Recovery Percentage: 96.7
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hard drive overall and hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

top 10cm - bits of brick debris, small, grey + dark brown silt
layer 20-40cm - woody debris
dark brown silt throughout

Notes:

Gravity vibrator

Project: AOC4 - Duwamish
 Date: 6/18/00
 Weather: 60s, partly cloudy
 Logged By: CPurward

Location ID: IT260
 Attempt No.: 2
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193770.77

Long/Easting: 1276332.87

A. Water Depth
 DTM Depth Sounder: 2.96 ft
 DTM Lead Line: _____ ft

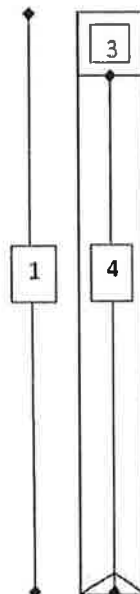
B. Water Level Measurements
 Time: 0859
 Height: 0.61 ft
 Source: RTK tide station

C. Mudline Elevation
 - 2.35 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 Feet
2. Penetration Depth: 34 ft / 10.86.4 cm
3. Headspace Measurement: 26 in.
4. Recovery Depth: 34 ft / 10.86.4 cm
5. Recovery Percentage: 100
6. Core Accepted: Yes / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal,

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

~ 0-10cm very soft brown silt w/ fine sand, wet
 10-bottom of core silt w/ F-M sand, brown, wet

Notes:

Gravily vibracore

Sediment Core Collection Form

Project: AOC4-Duwanish
 Date: 6/11/20
 Weather: 60° cloudy
 Logged By: Cburand

Location ID: SC261
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276213.35

Long/Easting: 193732.97

A. Water Depth
 DTM Depth Sounder: 21.53 ft
 DTM Lead Line:

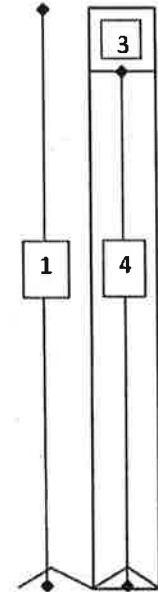
B. Water Level Measurements
 Time: 0930
 Height: ~~8.64~~ 8.65 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)
 -12.88

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 10 ft
 2. Drive Length: 84 in
 3. Headspace Measurement: 47 in
 4. Recovery Measurement: 73 in / 185.4 cm
 5. Recovery Percentage: 86.9
 6. Core Accepted: (Yes) / No

Drive Notes: Drive freely ~7 ft.
 64.6 cm shoaling material



- Core Sections To Process:
- ~~A) 0 - 12.88'~~ bq
 - ~~B) 12.88' - 72.88'~~ bq
 - ~~C) ———~~ bq
 - ~~Z) 72.88' - 102.88'~~ bq
 - A) 0 - 64.6 cm
 - B) 64.6 cm - 124.6 cm
 - Z) 124.6 - 154.6 cm

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

A Dark gray silt.
 B ↓
 Z

Notes:
 Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - DOWANISH
 Date: 6/18/20
 Weather: 60s, partly cloudy
 Logged By: CDurand

Location ID: SC262
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Nothing: 193688.10

Long/Easting: 1276093.31

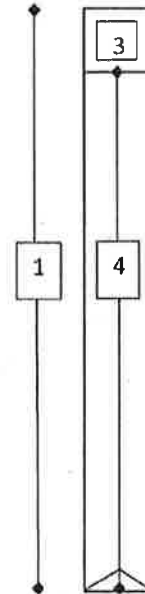
A. Water Depth
 DTM Depth Sounder: 10.70 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 0956
 Height: -0.07 ft
 Source: RTK tide station

C. Mudline Elevation
-10.77 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Penetration Depth: 60 ft/in, 152.4 cm
 3. Headspace Measurement: 1 in
 4. Recovery Depth: 59 ft/in, 149.9 cm
 5. Recovery Percentage: 98.3
 6. Core Accepted: (Yes, / No)



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:
Drive freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Entire core is homogeneous silt with trace organic matter. Slight H₂S odor which core was removed from covering.

Notes:
Gravity vibrator

Project: AOC4-DUVWOMISH
 Date: 6/11/20
 Weather: 60s, cloudy
 Logged By: C. Durand

Location ID: TT 263
 Attempt No.: 1 0-45
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1275989.71

Long/Easting: 193562.81

A. Water Depth

DTM Depth Sounder: 10.34 ft.
 DTM Lead Line:

B. Water Level Measurements

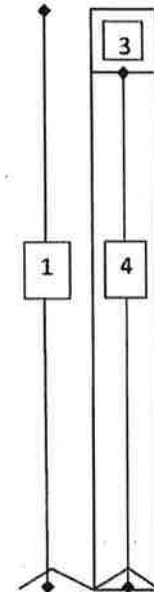
Time: 0802
 Height: 8.27 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)

-2.05 -2.07
 Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 60 in 18 in 24 in
3. Headspace Measurement: 18 in 42 in.
4. Recovery Measurement: 24 in 70.0 cm
5. Recovery Percentage: 75
6. Core Accepted: (Yes) / No



Core Sections To Process:

- 2A
- B:
- AC
- Z:

Drive Notes: To refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dk gray silt to depth.

Notes:

Gravity vibro core

Sediment Core Collection Form

Project: A064 - Duwamish
Date: 6/4/20
Weather: Wds, partly sunny
Logged By: KM

Location ID: SC264
Attempt No.: 1
Core Type: Intertidal (Subtidal) Shoaling
Field Staff: KM, CP, JH, AM

Field Collection Coordinates:
Lat/Northing: 1276078.27

Long/Easting: 193588.49

A. Water Depth
DTM Depth Sounder:
DTM Lead Line: 7.5 ft

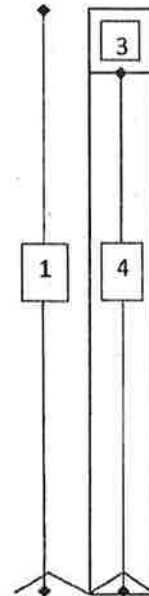
B. Water Level Measurements
Time: 1214
Height: 0.18 ft
Source: RTK tide station

C. Mudline Elevation (ft MLLW)
- 7.32

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5.1 ft
- 2. Drive Length: 4.0 ft 4.4 ft
- 3. Headspace Measurement: 0.7 ft
- 4. Recovery Measurement: 4.4 ft cm
- 5. Recovery Percentage: 100%
- 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A₂: _____
- B: _____
- C_A: _____
- Z: _____

Drive Notes: Drove freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt to depth

Notes:

RSS vibrator

Sediment Core Collection Form

Project: AOC4 - Oowamish
 Date: 6/18/20
 Weather: 60s, partly cloudy
 Logged By: CPurand

Location ID: SC265
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) (Subtidal)(0-60) or Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193640.33

Long/Easting: 1276243.91

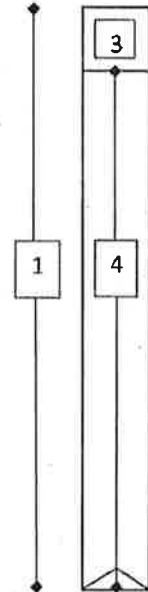
A. Water Depth
 DTM Depth Sounder: 12.44 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1025
 Height: -0.05 ft
 Source: RTK tide station

C. Mudline Elevation
 - 12.49 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 10 feet
 2. Penetration Depth: 75 ft (in) 190.5 cm
 3. Headspace Measurement: 45 in.
 4. Recovery Depth: 72 ft (in) 182.9 cm
 5. Recovery Percentage: 96.0
 6. Core Accepted: (Yes) / No



- Core Sections To Process:
- A: 0 to 76.5
 - B: 76.5 to 136.5
 - C: _____
 - Z: 136.5 to 166.5

Drive Notes:

76.5 cm shoaling material
Drove freely to depth

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-5 cm: Very wet/sloppy silt,
~10cm clumps of light brown silt.
10cm-onward, homogeneous dark brown silt with sand, no distinct features
No odor

Notes:

Gravity in bracer

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/12/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: IT 266
 Attempt No.: 1 ⁰⁻¹⁵
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Nothing: 1276360.36
 Long/Easting: 19371475

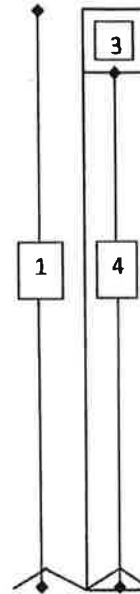
A. Water Depth
 DTM Depth Sounder: 7.68 ft.
 DTM Lead Line: _____

B. Water Level Measurements
 Time: 0741
 Height: 6.76 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)
- 0.92

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Drive Length: 36 in
 3. Headspace Measurement: 25 in
 4. Recovery Measurement: 35 in @ 88.9 cm
 5. Recovery Percentage: 97.2
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- C: _____
- B: _____
- A: _____
- Z: _____

Drive Notes: drove to refusal

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Brown sandy silt near surface 0-25 cm, dark silt below
Medium sand last 10 cm

Notes:
Gravity in barrel

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/18/20
 Weather: 60s, partly cloudy
 Logged By: CDurand

Location ID: IT267
 Attempt No.: 2
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TP, CD

Field Collection Coordinates:
 Lat/Northing: 193635.39

Long/Easting: 1276361.91

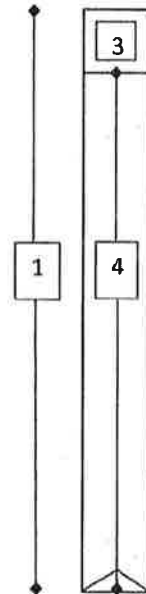
A. Water Depth
 DTM Depth Sounder: 3.15 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 0847
 Height: 1.09 ft
 Source: RTK tide station

C. Mudline Elevation
 - 2.06 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: 5 feet
 - Penetration Depth: 41 ft (in) 104.1 cm
 - Headspace Measurement: 19.5 in
 - Recovery Depth: 40.5 ft (in) 102.9 cm
 - Recovery Percentage: 98.8
 - Core Accepted: Yes / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
 Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

bottom ~ 80 cm - dark grey/black silt w/ medium sand
 top ~ 15 cm - grey w/ light brown silt
 no odor

Notes:
 Gravity vibrocorer

Project: AOC4 - Duwanish
 Date: 6/11/30
 Weather: 60s, cloudy
 Logged By: C. Durand

Location ID: ^{IT 0} SC268
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: P, J, S, T, D, C

Field Collection Coordinates:
 Lat/Northing: 1276429.73

Long/Easting: 193607.25

A. Water Depth
 DTM Depth Sounder: 5.42 ft
 DTM Lead Line:

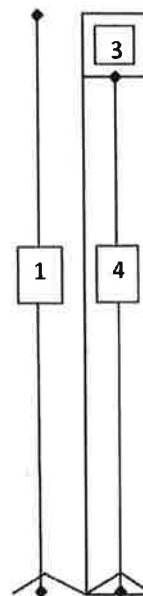
B. Water Level Measurements
 Time: 1238
 Height: 4.67 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)
 - 0.75

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 52 in
3. Headspace Measurement: 10.5 in
4. Recovery Measurement: 49.5 ft in 125.7 cm
5. Recovery Percentage: 95.2
6. Core Accepted: Yes No



Core Sections To Process:

A

B:

C

Z:

Drive Notes: TD refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-5 cm - wood debris
 traces of brown in top 10 cm
 brown patch at 20 cm
 dk gray silt.

Notes:

Gravity vibration

Project: AOC4 - DUNHAMISH
 Date: 6/11/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: SC269
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) (Shoaling)
 Field Staff: PS, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276277.41

Long/Easting: 193487.99

A. Water Depth

DTM Depth Sounder: 20.80 ft.
 DTM Lead Line:

B. Water Level Measurements

Time: 0911
 Height: 8.65 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)

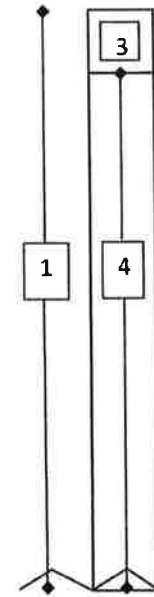
- 12.15

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 10 feet
2. Drive Length: 84 in
3. Headspace Measurement: 4 in
4. Recovery Measurement: 74 in ft 188.0 cm 74 in
5. Recovery Percentage: 88.1
6. Core Accepted: Yes / No

Drive Notes: Drove freely
 86.9 cm shoaling material



Core Sections To Process:

A: 0 - 86.9
 B: 86.9 - 146.9
 C: 146.9 - 176.9

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

A Moist 0-10cm, dk. gray silt w/tr. fine sand (~25cm) to depth.

B Dark gray silt

Notes:

Gravity intrusion

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/18/20
 Weather: 60s, partly cloudy
 Logged By: C. Durward

Location ID: SC 270
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) (Subtidal (0-60 or Shoaling)
 Field Staff: JS

Field Collection Coordinates:
 Lat/Northing: 193422.41

Long/Easting: 1276223.43

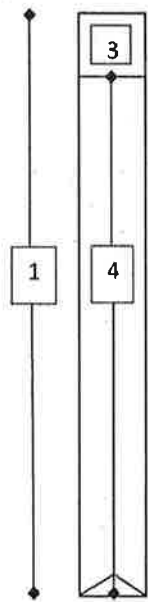
A. Water Depth
 DTM Depth Sounder: 13.72 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1113
 Height: 0.69 ft
 Source: RTK tide station

C. Mudline Elevation
 - 13.03 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Penetration Depth: 60 ft (in) 152.4 cm
 3. Headspace Measurement: 14.5 in
 4. Recovery Depth: 45.5 ft (in) 115.6 cm
 5. Recovery Percentage: 75.8
 6. Core Accepted: (Yes) / No



- Core Sections To Process:
- A: 0 to 60 cm
 - B: 60 to 120 cm
 - C: _____
 - Z: 120 to 150 cm

Drive Notes:
 60.0 cm shoaling material /
 Drive freely to target.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dark gray moist silt w/ fine sand
 w/ trace biota (worm in o-tube), moderate H₂S odor

Notes:
 Gravity vibracore

Sediment Core Collection Form

Project: ADC4 - DUWOMISM
 Date: 6/11/20
 Weather: WS, cloudy
 Logged By: CDurand

Location ID: SC271
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276114.25

Long/Easting: 193415.22

A. Water Depth

DTM Depth Sounder: 11.32 ft.
 DTM Lead Line:

B. Water Level Measurements

Time: 1218
 Height: 5.32 ft.
 Source: RTK

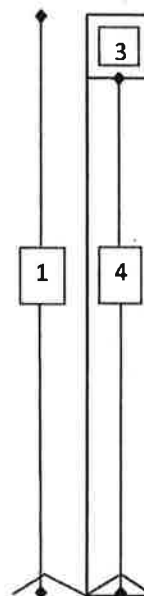
C. Mudline Elevation (ft MLLW)

-6.00

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 30 in
3. Headspace Measurement: 22.5 in
4. Recovery Measurement: 27.5 ft in 69.9 cm
5. Recovery Percentage: 91.7
6. Core Accepted: (Yes) No



Core Sections To Process:

C: A

B:

K: L

Z:

Drive Notes: to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark gray silt to depth

Notes:

Gravity vibrocore

Sediment Core Collection Form

Project: AOC4 - DUNHAMISH
Date: 6/11/20
Weather: 60s, cloudy
Logged By: CDurand

Location ID: IT272
Attempt No.: 1 0-45
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
Lat/Northing: 1276024.17

Long/Easting: 193396.07

A. Water Depth

DTM Depth Sounder: 9.62 ft.
DTM Lead Line:

B. Water Level Measurements

Time: 08:10
Height: 8.38 ft.
Source: RTK

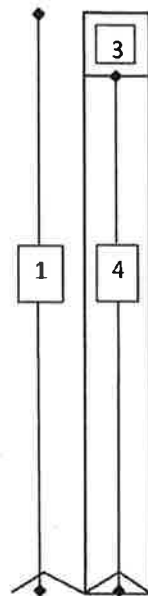
C. Mudline Elevation (ft MLLW)

- 1.24

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 feet
- 2. Drive Length: 58 in
- 3. Headspace Measurement: 6 in.
- 4. Recovery Measurement: 54 in @ 137.2 cm
- 5. Recovery Percentage: 93
- 6. Core Accepted: (Yes) / No



Core Sections To Process:

QA

B:

A: C

Z:

Drive Notes: Drive freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark gray silt to depth

Notes:

Gravity increments

Sediment Core Collection Form

Project: AOC4 - Dewamish
 Date: 6/11/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: SC273
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: PJ, JS, TP, CP

Field Collection Coordinates:
 Lat/Northing: 1276098.70

Long/Easting: 193338.55

A. Water Depth

DTM Depth Sounder: 9.65 ft
 DTM Lead Line:

B. Water Level Measurements

Time: 1227
 Height: ~~5.32~~ 4.99 ft
 Source: RTK

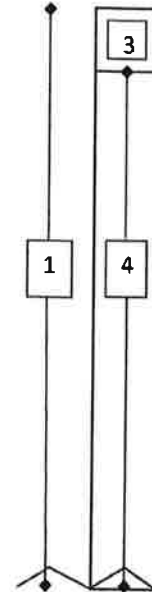
C. Mudline Elevation (ft MLLW)

04.33-4.66

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 60 in
3. Headspace Measurement: 4.5 in
4. Recovery Measurement: 55.5 in 141.2cm 141.0cm
5. Recovery Percentage: 92.5
6. Core Accepted: (Yes) / No



Core Sections To Process:

- eA
- B:
- A-C
- Z:

Drive Notes: Drive freely.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark gray silt to depth

Notes:

Gravity vibracore

Project: AOC4 - Oowamish
 Date: 6/25/20
 Weather: 70s, Sunny
 Logged By: CDurand

Location ID: IT300
 Attempt No.: 3
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193515.36

Long/Easting: 1276474.31

A. Water Depth

DTM Depth Sounder: ft
 DTM Lead Line: 142.2 ft
 CD

B. Water Level Measurements

Time: 1152
 Height: 2.94 ft
 Source: RTK tide station

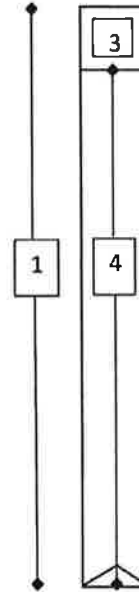
C. Mudline Elevation

+0.74 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 Feet
2. Penetration Depth: 56 ft/in / 142.2 cm
3. Headspace Measurement: 6 in.
4. Recovery Depth: 54 ft/in / 137.2 cm
5. Recovery Percentage: 96.4
6. Core Accepted: Yes / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive freely to depth

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top two cm brown surface, silt with fine sand
 2-6 cm olive grey sediment, bands of dark grey
 6-20 cm silt fine sand grey
 20cm there is large woody debris with fibres up to 4 inches
 30cm transitions to fine sand with wood fibres no odor
 oily sheen found at 39.5cm (quarter sized),
 petroleum odor & sheen

Notes:

Grassy inshore

Sediment Core Collection Form

Project: AOC4 - Downwash
 Date: 6/22/20
 Weather: 50s, cloudy, sunny
 Logged By: CDurand

Location ID: JT301
 Attempt No.:
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 103520.23

Long/Easting: 127647.57

A. Water Depth

DTM Depth Sounder: ft
 DTM Lead Line: 2.122.2 ft
 CD

B. Water Level Measurements

Time: 0713
 Height: 9.09 ft
 Source: RTK tide station

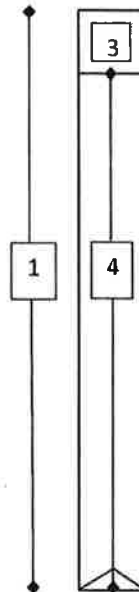
C. Mudline Elevation

+6.89 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 36 ft (in) 91.4 cm
3. Headspace Measurement: 24.5 in
4. Recovery Depth: 35.5 ft (in) 90.2 cm
5. Recovery Percentage: 98.6
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~4cm mostly brown silt w/vegetation growing on top layer with roots extending into ~4cm layer. Remaining core is homogeneous coarse sand and silt. Core has no odor.

Notes:

Gravily vibrated

Project: AOC4 - Duwanish
 Date: 6/22/20
 Weather: 50%, sunny
 Logged By: EDurand

Location ID: IT302
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193473.90

Long/Easting: 1276635.92

A. Water Depth

DTM Depth Sounder: ft
 DTM Lead Line: -2.8 ft

B. Water Level Measurements

Time: 0720
 Height: 8.77 ft
 Source: RTK tide station

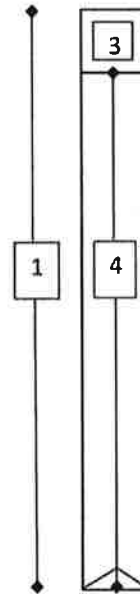
C. Mudline Elevation

+5.97 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 19.5 ft/in: 49.5 cm
3. Headspace Measurement: 40.5 in
4. Recovery Depth: 19.5 ft/in: 49.5 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- oily sheen in water around sediment, light oily smell upon opening
- homogeneous dark brown silt, organic matter (twigs/sticks) in top 10 cm
- light H₂S odor
- small amount of pebbles in Angers, at bottom

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Ouwamin
 Date: 6/24/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: IT303
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TH, CD

Field Collection Coordinates:
 Lat/Northing: 193420.58

Long/Easting: 1276575.94

A. Water Depth
 DTM Depth Sounder: 6.04 ft
 DTM Lead Line: 3.0 ft

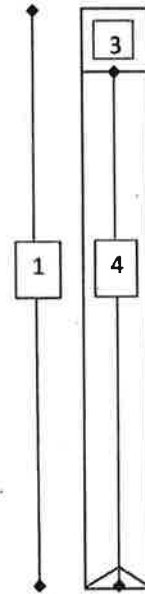
B. Water Level Measurements
 Time: 0944
 Height: 6.76 ft
 Source: RTK tide station

C. Mudline Elevation
 +0.72 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 36 ft (in) 91.4 cm
3. Headspace Measurement: 33 in
4. Recovery Depth: 27 ft (in) 68.6 cm
5. Recovery Percentage: 75.0
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- fine silt, very dark grey
- top 28cm - light brown silt + dark grey silt
- top few cms - very soupy, remaining is solid

Notes:

Cavity in core

Project: AOC4 - Duwanish
Date: 6/23/20
Weather: 60s, sunny
Logged By: CDurand

Location ID: IT304
Attempt No.: 2
Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
Lat/Northing: 193431.04

Long/Easting: 1276494.87

A. Water Depth

DTM Depth Sounder: 4.73 ft
DTM Lead Line: ft

B. Water Level Measurements

Time: 0914
Height: 6.13 ft
Source: RTK tide station

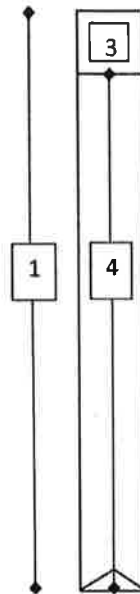
C. Mudline Elevation

+1.40 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- Core Tube Length: 5 feet
- Penetration Depth: 25 ft/in 63.5 cm
- Headspace Measurement: 36 in
- Recovery Depth: 24 ft/in 61.0 cm
- Recovery Percentage: 96.0
- Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal,

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~ 2 cm loose wet brown silt, Next ~ 35 cm wet brown silt and fine sand. Remaining core is black/dark brown compacted silt. No visible organic matter and no odor.

Notes:

Gravily vibracore

Sediment Core Collection Form

Project: AOC4 - Duwanan
 Date: 6/18/20
 Weather: 60s partly cloudy
 Logged By: CDurand

Location ID: IT305
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193302.59

Long/Easting: 1276414.00

A. Water Depth

DTM Depth Sounder: 3.81 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0833
 Height: 1.39 ft
 Source: RTK tide station

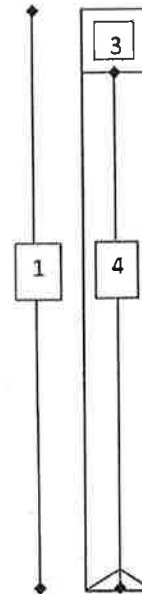
C. Mudline Elevation

-2.42 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 40 ft (101.6 cm)
3. Headspace Measurement: 22 in
4. Recovery Depth: 38 ft (96.5 cm)
5. Recovery Percentage: 95.0
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Surface 25-30 cm very wet, soft, soupy
Remainder firm consistency, all silt dark brown

Notes:

Gravity measured

Project: AOC4 - Dewamish
 Date: 6/22/20
 Weather: 50s, sunny
 Logged By: CDurand

Location ID: IT306
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PT, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193343.28

Long/Easting: 1276635.98

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: - 3.7 ft

B. Water Level Measurements

Time: 0729
 Height: 8.47 ft
 Source: RTK tide station

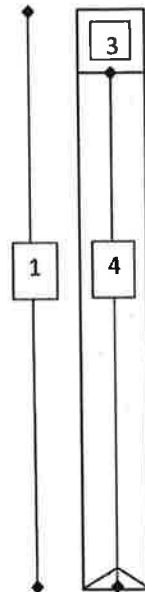
C. Mudline Elevation

+4.77 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 30 31 ft (in) 78.7 cm
3. Headspace Measurement: 29 in
4. Recovery Depth: 30 31 ft (in) 78.7 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~4 cm wet and soft dark brown silt. Remaining core is homogeneous dark brown silt and sand. No shell to core.

Notes:

Growth in bracer

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/24/20
 Weather: 60%, partly cloudy
 Logged By: CDurand

Location ID: IT307
 Attempt No.: 2
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TA, CD

Field Collection Coordinates:

Lat/Northing: 193294.33

Long/Easting: 1276523.33

A. Water Depth

DTM Depth Sounder: 12.67ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0922
 Height: 7.58 ft
 Source: RTK tide station

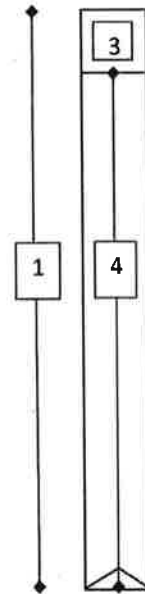
C. Mudline Elevation

-5.09 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 24 ft/in. 61.0 cm
3. Headspace Measurement: 39 in.
4. Recovery Depth: 21 ft/in. 53.3 cm
5. Recovery Percentage: 87.5
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Heterogeneous brown and dark brown mottled regions, moist silt with sand. Top 5cm wet.
 Signs of benthic biota (holes/tunnels through sediment)
 Trace odor, Marine smell w/ sulfur notes

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwanish
 Date: 6/23/20
 Weather: 60s, sunny
 Logged By: C Durand

Location ID: IT 308
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: P.J, M.D, T.D, C.D

Field Collection Coordinates:
 Lat/Northing: 193290.56

Long/Easting: 1276602.46

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: 3.0 ft

B. Water Level Measurements

Time: 0811
 Height: 6.91 ft
 Source: RTK tide station

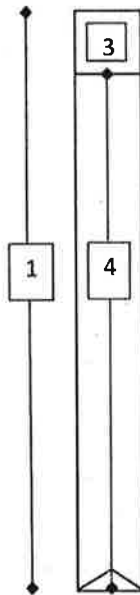
C. Mudline Elevation

+ 3.91 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 31.5 ft / (in) 80.0 cm
3. Headspace Measurement: 28.5 in
4. Recovery Depth: 31.5 ft / (in) 80.0 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 1-2 cm soft brown silt followed by ~6 cm of dark brown soft sand and silt. Next ~ 50 cm light brown pack silt and sand followed by dark brown/black silt and fine sand. No visible organic matter and no odor.

Notes:

Gravity vibracored

Project: AOC4 - Duwamish
 Date: 6/22/20
 Weather: 60° sunny
 Logged By: Edurand

Location ID: IT309
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193249.92

Long/Easting: 1276648.15

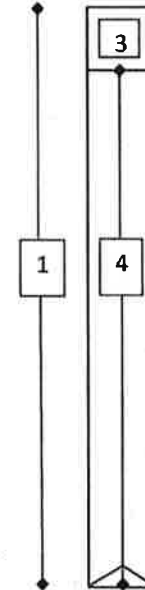
A. Water Depth
 DTM Depth Sounder: ft
 DTM Lead Line: 3.5 ft

B. Water Level Measurements
 Time: 0735
 Height: 8.47 ft
 Source: RTK tide station

C. Mudline Elevation
+4.97 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Penetration Depth: 37 ft (in) 94.0 cm
 3. Headspace Measurement: 23.5 in
 4. Recovery Depth: 36.5 ft (in) 92.7 cm
 5. Recovery Percentage: 98.6
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:
Hit refusal.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- dark brown silt
- top 15cm - with lighter brown silt, small biota
- bottom 22cm - dark brown/black silt
- no odor

Notes:
Gravity vibrator

Sediment Core Collection Form

Project: AD04 - Duwamish

Location ID: IT310

Date: 06/05/20

Attempt No.: 1 ⁰⁻⁴⁵

Weather: 57° partly cloudy

Core Type: (Intertidal) Subtidal Shoaling

Logged By: CDurand

Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:

Lat/Northing: 1276487.58

Long/Easting: 193180.39

A. Water Depth

DTM Depth Sounder: 0.5 ft.

DTM Lead Line: _____

B. Water Level Measurements

Time: 1032

Height: -1.76 ft.

Source: RTK

C. Mudline Elevation (ft MLLW)

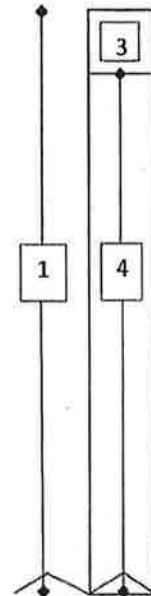
- 2.26

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5'
- 2. Drive Length: 25m
- 3. Headspace Measurement: 38 in
- 4. Recovery Measurement: 22 in ft 55.9 cm
- 5. Recovery Percentage: 88
- 6. Core Accepted: (Yes) / No

Drive Notes: to refusal



Core Sections To Process:

- A
- B
- C
- A
- Z

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10 cm moist silt w/ f-sad brown-gray. brown-gray silt to depth

Notes:

Gravity interferer

Project: AOC4 - Duwamish
 Date: 6/23/20
 Weather: 70s, Sunny
 Logged By: CDurand

Location ID: TT311
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193167.53

Long/Easting: 1276584.60

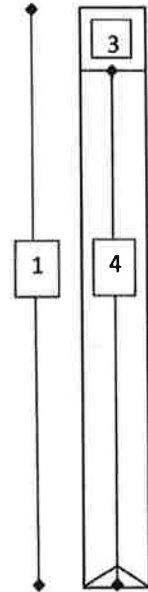
A. Water Depth
 DTM Depth Sounder: 2.33 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 0947
 Height: 4.70 ft
 Source: RTK tide station

C. Mudline Elevation
 +2.37 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Penetration Depth: 26 ft/in) 66.0 cm
 3. Headspace Measurement: 34 in
 4. Recovery Depth: 26 ft/in) 66.0 cm
 5. Recovery Percentage: 100
 6. Core Accepted: Yes / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
 Hit refusal

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

top 10cm - lighter brown silt
 bottom ~ 50cm - dark grey, almost black silt
 woody debris @ 25 cm from the top
~~no odor~~ slight H₂S odor

Notes:
 Gravity inbracore

Sediment Core Collection Form

Project: AOC4 - Downomism
Date: 6/22/20
Weather: 60°, sunny
Logged By: CDurand

Location ID: IT 312
Attempt No.: 1
Core Type: Intertidal (0-45cm); Subtidal (0-60 or Shoaling)
Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 193154.00

Long/Easting: 1276004.82

A. Water Depth

DTM Depth Sounder: ft

DTM Lead Line: 2.2 ft

B. Water Level Measurements

Time: 0740

Height: 8.07 ft

Source: RTK tide station

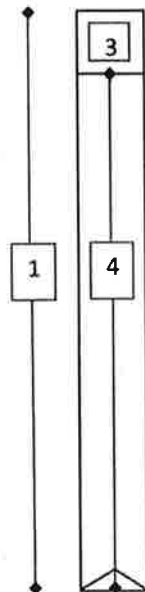
C. Mudline Elevation

+5.87 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 feet
- 2. Penetration Depth: 30.5 ft (in) 77.5 cm
- 3. Headspace Measurement: 29.5 in
- 4. Recovery Depth: 30.5 ft (in) 77.5 cm
- 5. Recovery Percentage: 100
- 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 1-2 cm lose wet sand and silt, next 1/2 cm brown sand and silt. Remaining core dark brown sand and silt. No visible organic matter or shells.

Notes:

Gravity vibrocorer

Project: AOC4 - Downmanish
 Date: 6/23/20
 Weather: 80s, sunny
 Logged By: CDurand

Location ID: IT313
 Attempt No.: 2
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193079.85

Long/Easting: 1276615.61

A. Water Depth

DTM Depth Sounder: 7.65 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0843
 Height: 7.39 ft
 Source: RTK tide station

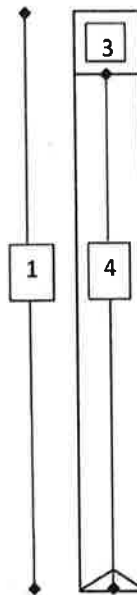
C. Mudline Elevation

- 0.26 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 20 ft / (49.5 cm)
3. Headspace Measurement: 40.5 in
4. Recovery Depth: 19.5 ft / (49.5 cm)
5. Recovery Percentage: 97.5
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10cm = Grey/Green silt; 10-46.5cm black silt
 Moist; no odor

Notes:

Gravity vibracore

Project: AOC4 - Duwanish

Location ID: SC 314

Date: 6/17/20

Attempt No.: 1

Weather: 60s, partly cloudy

Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling

Logged By: CDurand

Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 193015.71

Long/Easting: 1276452.25

A. Water Depth

DTM Depth Sounder: 13.98 ft

DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 1155

Height: 3.11 ft

Source: RTK tide station

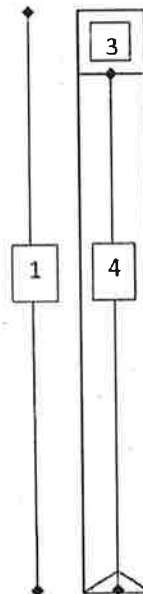
C. Mudline Elevation

-10.87 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 56 ft (in) 172.2 cm
3. Headspace Measurement: 11.5 in
4. Recovery Depth: 48.5 ft (in) 148.2 cm
5. Recovery Percentage: 86.6
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~25 cm is uniform mixed silt and fine sand. Remaining core is homogeneous silt dark brown/black. No odor and no visible organic matter.

Notes:

Gravity inshore

Project: AOC4 - Duwanian

Location ID: IT315

Date: 6/18/20

Attempt No.: 1

Weather: 60°, partly cloudy

Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)

Logged By: CDurand

Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 193027.36

Long/Easting: 1276541.74

A. Water Depth

DTM Depth Sounder: 3.65 ft

DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0827

Height: 1.69 ft

Source: RTK tide station

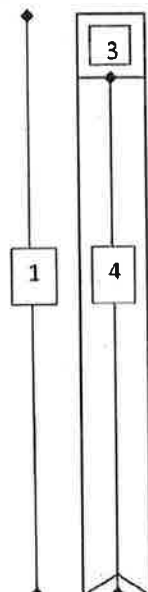
C. Mudline Elevation

-1.96 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 3.2 ft (in) 81.3 cm
3. Headspace Measurement: 28.5 in
4. Recovery Depth: 3.1 ft (in) 80.0 cm
5. Recovery Percentage: 98.4
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10cm brown/gray soft silt, wet
 10-bottom of core brown/dark gray silt, wet

Notes:

Gravity inboard

Sediment Core Collection Form

Project: AOC4 - Dewamish
 Date: 6/23/20
 Weather: 60°, sunny
 Logged By: CDurand

Location ID: IT 316
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: P, J, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193065.00

Long/Easting: 1276695.05

A. Water Depth
 DTM Depth Sounder: ft
 DTM Lead Line: -2.1 ft

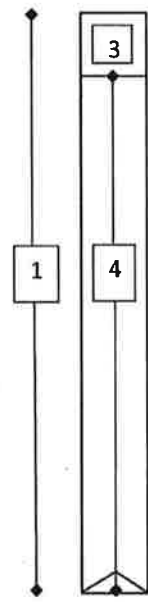
B. Water Level Measurements
 Time: 0745
 Height: 8.07 ft
 Source: RTK tide station

C. Mudline Elevation
 +5.97 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 27 ft (in) 68.6 cm
3. Headspace Measurement: 33 in
4. Recovery Depth: 27 ft (in) 68.6 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
 Hit refusal.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- homogeneous olive brown/grey core
- silt/fine sand
- no odor
- trace shell hash in finer material (bottom)

Notes:
 Corally unbraced

Project: AOC4 - Duwamish

Location ID: IT317

Date: 6/23/20

Attempt No.: 2

Weather: WS, sunny

Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)

Logged By: CDuband

Field Staff: PJ, MP, TD, CD

Field Collection Coordinates:

Lat/Northing: 192983.67

Long/Easting: 127670.36

A. Water Depth

DTM Depth Sounder: 5.06 ft

DTM Lead Line: ft

B. Water Level Measurements

Time: 0818

Height: 8.16 ft

Source: RTK tide station

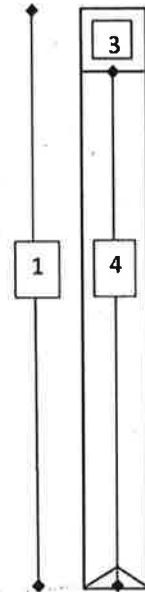
C. Mudline Elevation

+ 3.10 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 feet
- 2. Penetration Depth: 25 ft (in) 63.5 cm
- 3. Headspace Measurement: 35.5 in
- 4. Recovery Depth: 24.5 ft (in) 62.2 cm
- 5. Recovery Percentage: 98.0
- 6. Core Accepted: Yes / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

medium brown/grey silty core throughout

Fine, multi-colored sand in bottom 10cm

no odor

Notes:

Gravity corer

Project: AOC4-Duwomish
 Date: 06/04/20
 Weather: 60s, Cloudy
 Logged By: CDurand

Location ID: SC 318 ⁰⁻⁶⁰
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: PJ, JS, TD, CA

Field Collection Coordinates:
 Lat/Northing: 1276516.79

Long/Easting: 192943.62

A. Water Depth
 DTM Depth Sounder: 4.24 ft
 DTM Lead Line:

B. Water Level Measurements
 Time: 1130 AM
 Height: 1.32 - 1.07 ft
 Source: RTK

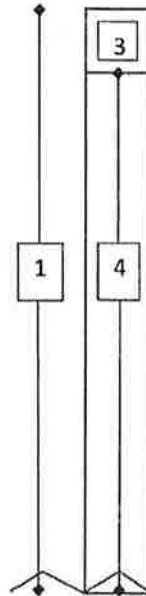
C. Mudline Elevation (ft MLLW)
 -5.56 -5.31

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'
2. Drive Length: 60 m
3. Headspace Measurement: 2 m
4. Recovery Measurement: 58 in (147.3 cm)
5. Recovery Percentage: 97.0
6. Core Accepted: (Yes) / No

Drive Notes: Drive freely



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Lots of creosote at the water surface (sheen)

DK gray silt to depth

Notes:

Gravity vibrator

Project: AOC4 - Duwamish
 Date: 6/19/08
 Weather: 80s, partly cloudy, 60s
 Logged By: CPutland

Location ID: IT319
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MP, TD, CD

Field Collection Coordinates:
 Lat/Northing: 192911.03

Long/Easting: 1276601.56

A. Water Depth
 DTM Depth Sounder: 5.71 ft
 DTM Lead Line: _____ ft

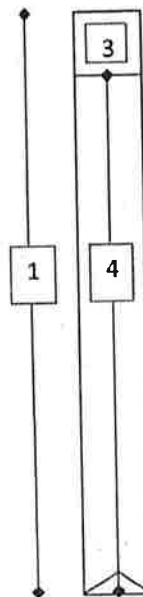
B. Water Level Measurements
 Time: 0717
 Height: 5.60 ft
 Source: RTK tide station

C. Mudline Elevation
 = 0.11 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 51 ft/in) 129.5 cm
3. Headspace Measurement: 9 in
4. Recovery Depth: 51 ft/in) 129.5 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

top 10cm = soft brown silt
 10cm - 20cm = coarse sand, grey
 20cm - bottom of core = dark grey silt, fine sand

Notes:

Gravity inshore

Project: AOC4 - Duwanish
 Date: 6/22/20
 Weather: 60°, sunny
 Logged By: CDurand

Location ID: TT320
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 192920.16

Long/Easting: 1276756.56

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: 2.0 _____ ft

B. Water Level Measurements

Time: 0752
 Height: 7.76 _____ ft
 Source: RTK tide station

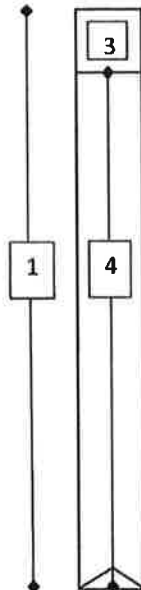
C. Mudline Elevation

+5.76 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 40.5 ft (102.9 cm)
3. Headspace Measurement: 9.5 in
4. Recovery Depth: 40.5 ft (102.9 cm)
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Little vegetation on top layer of core. Remainder core is homogeneous sand with silt. No visible organic matter or other

Notes:

Gravily vibrated

Project: AOC4 - Duwamish
 Date: 6/23/20
 Weather: 60s, sunny
 Logged By: C Durdnd

Location ID: IT321
 Attempt No.: 3
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 192855.85

Long/Easting: 1276670.68

A. Water Depth
 DTM Depth Sounder: 3.02 ft
 DTM Lead Line: _____ ft

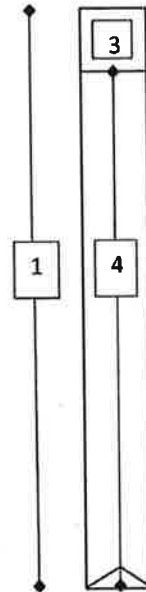
B. Water Level Measurements
 Time: 0931
 Height: 5.17 ft
 Source: RTK tide station

C. Mudline Elevation
 +2.15 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 21 ft/in. 53.3 cm
3. Headspace Measurement: 39.5 in
4. Recovery Depth: 20.5 ft/in. 52.1 cm
5. Recovery Percentage: 97.6
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
 Hit refusal

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~2 cm soft brown silt. Remainder of core is homogeneous silt and coarse sand with bottom ~10 cm dark brown/black dry silt. Large woody debris found in bottom 10 cm

Notes:
 Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Downamish
 Date: 06/05/20
 Weather: 57° Cloudy
 Logged By: CDurand

Location ID: SC322
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: PT, JS, TD, CD

Field Collection Coordinates:

Lat/Northing: 1276516.09

Long/Easting: 192777.06

A. Water Depth

DTM Depth Sounder: 5.61 ft.
 DTM Lead Line:

B. Water Level Measurements

Time: 1045
 Height: -1.97 ft.
 Source: RTK

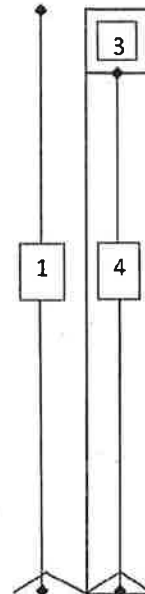
C. Mudline Elevation (ft MLLW)

- 7.58

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5
2. Drive Length: 60 in
3. Headspace Measurement: 6.5 in
4. Recovery Measurement: 53.5 ft in 135.9 cm
5. Recovery Percentage: 89
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive freely.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DC gray silt to depth

Notes:

Gravity vibrator

Project: AOC4 - Dunhamish

Location ID: IT 323

Date: 6/22/20

Attempt No.: 1

Weather: 60° sunny

Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)

Logged By: Edward

Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 192831.16

Long/Easting: 1276788.74

A. Water Depth

DTM Depth Sounder: ft

DTM Lead Line: 5.0 ft

B. Water Level Measurements

Time: 0757

Height: 7.32 ft

Source: RTK tide station

C. Mudline Elevation

+2.32 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet

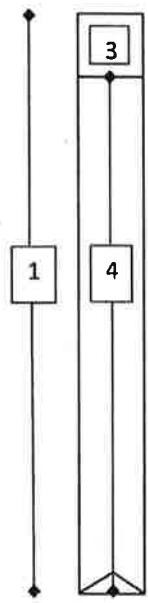
2. Penetration Depth: 5.019 ft (in) 48.3 cm

3. Headspace Measurement: 4" in

4. Recovery Depth: 19.50 ft (in) 48.3 cm

5. Recovery Percentage: 100

6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- very dark gray/black silt
- top ~10cm light brown silt
- using all material in fingers to get 41cm

Notes:

Gravity vibrocored

Project: AOC4 - Duwamish

Location ID: SC 324

Date: 6/16/20

Attempt No.: 2

Weather: 50s, cloudy

Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling)

Logged By: CDurand

Field Staff: JS MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 193168.42

Long/Easting: 1276015.21

A. Water Depth

DTM Depth Sounder: 7.35 ft

DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0720

Height: 3.32 ft

Source: RTK tide station

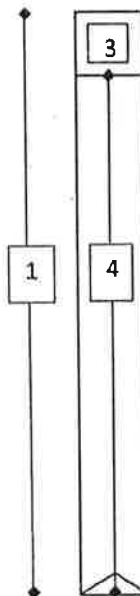
C. Mudline Elevation

- 3.93 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 60 ft/in. 152.4 cm
3. Headspace Measurement: 4 in
4. Recovery Depth: 56 ft/in. 142.2 cm
5. Recovery Percentage: 93.3
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Added a chuck.
Drove to recovery freely to depth
CD

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Homogeneous silty, next top 10 cm, no visible hint of organic matter

Notes:

Eventy, inshore

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/16/20
 Weather: 50%, cloudy
 Logged By: CDurand

Location ID: SC325
 Attempt No.: 2
 Core Type: Intertidal (0-45cm) Subtidal(0-60) or Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 143065.69

Long/Easting: 1276056.72

A. Water Depth

DTM Depth Sounder: 6.40 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0740
 Height: 286 ft
 Source: RTK tide station

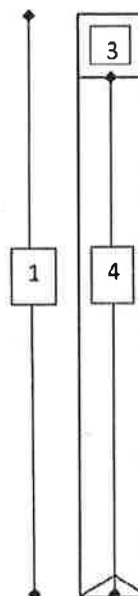
C. Mudline Elevation

- 3.54 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 60 ft (in) 152.4 cm
3. Headspace Measurement: 6.5 in
4. Recovery Depth: 53.5 ft (in) 135.9 cm
5. Recovery Percentage: 89.2
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Added chuck.
 Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

silty dark grey/black - remaining
 dark brown w/ light brown streaks - top 50"
 fairly wet

Notes:

Gravity vibrator

Project: AOC4 - DUNWOMISH
 Date: 6/16/20
 Weather: 50s, cloudy
 Logged By: C Duran

Location ID: SC 326
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: JS, MA, TA, CD

Field Collection Coordinates:
 Lat(Northing) 193032.43

Long(Easting) 1276188.04

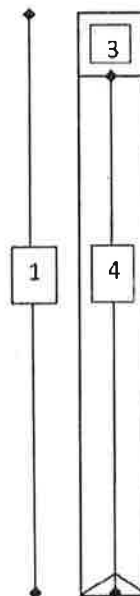
A. Water Depth
 DTM Depth Sounder: 5.55 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 0750
 Height: 2.67 ft
 Source: RTK tide station

C. Mudline Elevation
- 2.88 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: 5 feet
 - Penetration Depth: 57 ft (in) 144.8 cm
 - Headspace Measurement: 3 in
 - Recovery Depth: 57 ft (in) 144.8 cm
 - Recovery Percentage: 100
 - Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:
Drove freely to depth.
Added chuck

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Mostly homogeneous. Top 20-30cm lighter color brown, more moist.
Noticeable alternating strata of silt, sandier silt.
Organic debris present near surface

Notes:
Gravity vibrator

Project: AOC4 - Duwamish
 Date: 6/16/20
 Weather: 50%, cloudy
 Logged By: CDurand

Location ID: SC327
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat(Northing): 192857.76

Long(Easting): 1276088.09

A. Water Depth
 DTM Depth Sounder: 5.12 ft
 DTM Lead Line: _____ ft

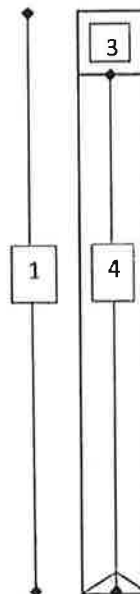
B. Water Level Measurements
 Time: 0802
 Height: 2.46 ft
 Source: RTK tide station

C. Mudline Elevation
-2.66 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 56 ft (1142.2 cm)
3. Headspace Measurement: 11 in
4. Recovery Depth: 49 ft (1246.5 cm)
5. Recovery Percentage: 87.5
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:
Added chuck. CD
Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

top ~ 20 cm dark brown, remaining core = dark gray silt

Notes:
Gravity vibrocorer

Project: AOC4 - Duwamish
Date: 6/16/20
Weather: 50s, cloudy
Logged By: C Durand

Location ID: SC328
Attempt No.: 1
Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 192816.55

Long/Easting: 1276019.20 1276019.20

A. Water Depth

DTM Depth Sounder: 6.04 ft
DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0813
Height: 2.35 ft
Source: RTK tide station

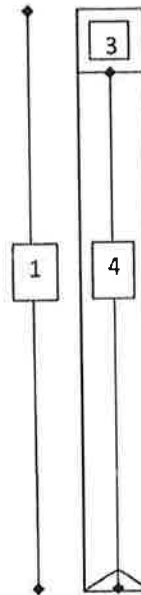
C. Mudline Elevation

- 3.69 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 56 ft/in / 142.2 cm
3. Headspace Measurement: 5.5 in
4. Recovery Depth: 54.5 ft/in / 138.43 cm
5. Recovery Percentage: 97.3
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Added Chuck, CD
Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Superior moister w/ streaks of light brown - 0-30cm
Rest is well packed, dark grey, homogeneous

Notes:

Gravity recovered

Project: AOC4 - Duwamish

Location ID: SC329

Date: 6/16/20

Attempt No.: 1

Weather: 50%, cloudy

Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling

Logged By: CDurand

Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat (Northing): 190831.49

Long (Easting): 1276189.10

A. Water Depth

DTM Depth Sounder: 3.87 ft

DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0823

Height: 2.22 ft

Source: RTK tide station

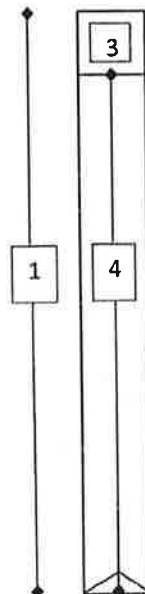
C. Mudline Elevation

- 1.65 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 48 ft (in) 121.9 cm
3. Headspace Measurement: 22 in
4. Recovery Depth: 38 ft (in) 96.5 cm
5. Recovery Percentage: 79.2
6. Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

We couldn't get within 10 feet because of moored moored boats. Got as close as we could.
 AED-CD

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

cloudy grey silt

light brown, small rust colored spots, trace organic debris (small) ~ 15 cm top

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/16/20
 Weather: 50%, cloudy
 Logged By: CDurand

Location ID: IT330
 Attempt No.: 1
 Core Type: (Intertidal)(0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 192703.53

Long/Easting: 127657.88

A. Water Depth
 DTM Depth Sounder: 3.87 ft
 DTM Lead Line: _____ ft

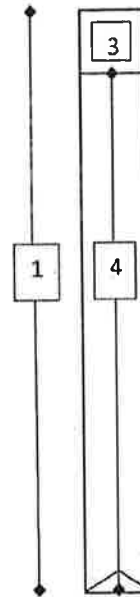
B. Water Level Measurements
 Time: 1129
 Height: 4.07 ft
 Source: RTK tide station

C. Mudline Elevation
+0.20 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 38 ft/(in) 96.5 cm
3. Headspace Measurement: 16 in
4. Recovery Depth: 35 ft/(in) 88.9 cm
5. Recovery Percentage: 92.1
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:
Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 5m more silty
5m-bottom: uniform brown med-course sand and silt.
Notable pocket of mucky woody debris at bottom of core.
No odor.

Notes:
Gravity vibracore

Project: AOC4 - DUNWOMUM
 Date: 6/16/20
 Weather: 50s, cloudy
 Logged By: C Durand

Location ID: TT331
 Attempt No.: 1
 Core Type: (Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat (Northing): 192696.72

Long (Easting): 1276162.26

A. Water Depth

DTM Depth Sounder: 5.68 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 1134
 Height: 4.32 ft
 Source: RTK tide station

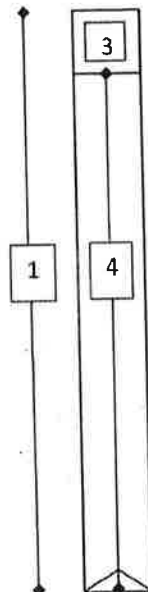
C. Mudline Elevation

-1.36 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 56 ft/in, 142.2 cm
3. Headspace Measurement: 7.5 in
4. Recovery Depth: 52.5 ft/in, 133.4 cm
5. Recovery Percentage: 93.8
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dark brown/grey silt

lighter brown top ~30cm

no odor

Notes:

Gravity sampler

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/16/20
 Weather: 50s, cloudy
 Logged By: C. Durand

Location ID: IT 332
 Attempt No.: 1
 Core Type: (Intertidal (0-45cm)) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat(Northing): 193700.11

Long(Easting): 1276246.59

A. Water Depth

DTM Depth Sounder: 2.82 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0832
 Height: 2.16 ft
 Source: RTK tide station

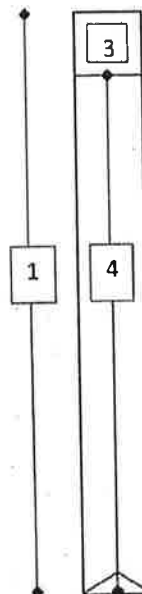
C. Mudline Elevation

- 0.66 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 44 ft/(in) 111.8 cm
3. Headspace Measurement: 2.5 in
4. Recovery Depth: 39 ft/(in) 99.1 cm
5. Recovery Percentage: 88.6
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10cm: Wet rusty - brown soupy sandy silt.
10cm - onward dark brown well packed silt.
Small, invertebrates present in/around core
No odor

Notes:

Gravity invariance

Project: AOC4 - Dewamish
Date: 6/10/20
Weather: 50s, cloudy
Logged By: Durand

Location ID: SC333
Attempt No.: 1
Core Type: Intertidal (Subtidal) Shoaling
Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
Lat/Nothing 1276263.74

Long/Easting: 192562.44

A. Water Depth
DTM Depth Sounder: 15.39 ft.
DTM Lead Line:

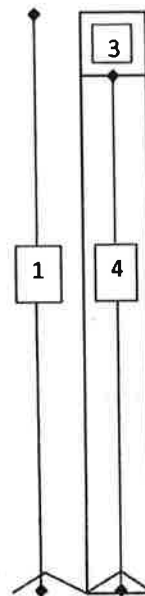
B. Water Level Measurements
Time: 0849
Height: 9.31 ft.
Source: RTK

C. Mudline Elevation (ft MLLW)
- 6.08

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 feet
- 2. Drive Length: 60 in
- 3. Headspace Measurement: 6 in
- 4. Recovery Measurement: 54 in ft 137.2 cm 54 in
- 5. Recovery Percentage: 90
- 6. Core Accepted: (Yes) / No



Core Sections To Process:

- C: _____
- B: _____
- A: _____
- Z: _____

Drive Notes: Drive freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dk gray silt to depth

Notes:

Gravity inductor

Project: ADC4 - Duwamish

Location ID: IT 334

Date: 6/10/20

Attempt No.: 1 0-45

Weather: 50s, cloudy partly sunny

Core Type: (Intertidal) Subtidal Shoaling

Logged By: Curand

Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:

Lat/Northing: 1276285.49

Long/Easting: 192341.83

A. Water Depth

DTM Depth Sounder: 8.99 ft

DTM Lead Line:

B. Water Level Measurements

Time: 0840

Height: 9.40 ft

Source: RTK

C. Mudline Elevation (ft MLLW)

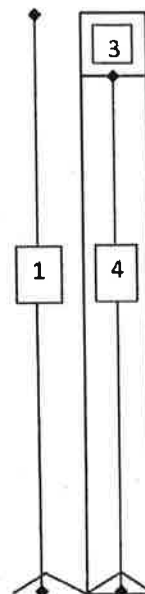
+0.41

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 30 in
3. Headspace Measurement: 36.5 in
4. Recovery Measurement: 23.5 ft (60 cm)
5. Recovery Percentage: 78
6. Core Accepted: (Yes) / No

Drive Notes: TO refusal



Core Sections To Process:

- A
- B:
- A-C
- Z:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Most 0-10cm, dk gray silt to depth

Notes:

Gravity vibracore

Project: AOC4 - Duwamish
Date: 6/9/20
Weather: 50s, cloudy
Logged By: CDurand

Location ID: SC335
Attempt No.: 2
Core Type: Intertidal (Subtidal) Shoaling
Field Staff: PS, JS, TD, CD

Field Collection Coordinates:
Lat/Northing: 1276712.47

Long/Easting: 192212.88

A. Water Depth
DTM Depth Sounder: 15.46 ft
DTM Lead Line:

B. Water Level Measurements
Time: 0942
Height: 7.97 ft
Source: RTK

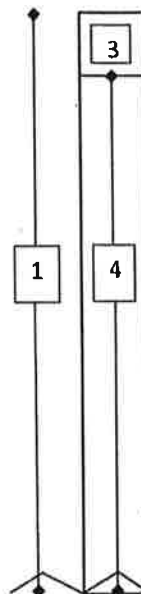
C. Mudline Elevation (ft MLLW)
- 7.49

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 feet
- 2. Drive Length: 57 in
- 3. Headspace Measurement: 8 in
- 4. Recovery Measurement: 52 in ft 132 cm
- 5. Recovery Percentage: 91
- 6. Core Accepted: (Yes) / No

Drive Notes: Drove freely



Core Sections To Process:

- A: _____
- B: _____
- A/C: _____
- Z: _____

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt to depth

Notes:

Granular vitrinite

Project: AOC4-Durwanish
 Date: 06/05/20
 Weather: 59° Cloudy
 Logged By: C Durand

Location ID: SC 336
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:

Lat/Northing: 1276645.44

Long/Easting: 192590.14

A. Water Depth

DTM Depth Sounder: 6.40 ft.
 DTM Lead Line:

B. Water Level Measurements

Time: 10:54
 Height: -2.18 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)

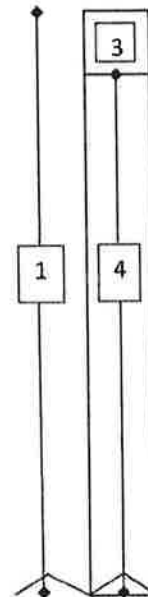
-8.58

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'
2. Drive Length: 48 in 48 in
3. Headspace Measurement: 20 in
4. Recovery Measurement: 40 in 101.6 cm
5. Recovery Percentage: 83
6. Core Accepted: (Yes) / No

Drive Notes: To refusal



Core Sections To Process:

- A:
- B:
- C:
- Z:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark gray silt to depth
 Moist 0-10 cm

Notes:

Gravity vibrocorer

Sediment Core Collection Form

Project: AOC4-Duwamish
 Date: 6/9/20
 Weather: 50s, cloudy
 Logged By: C Durand

Location ID: SC337
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: PS, JS, TD, CD

Field Collection Coordinates:

Lat/Northing: 1276714.34

Long/Easting: 192500.33

A. Water Depth

DTM Depth Sounder: 14.27 ft
 DTM Lead Line: _____

B. Water Level Measurements

Time: 0931
 Height: 8.31 ft
 Source: RTK

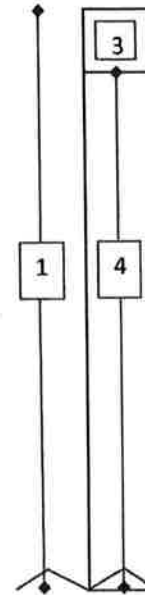
C. Mudline Elevation (ft MLLW)

5.96

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 60 in
3. Headspace Measurement: 2.5 in
4. Recovery Measurement: 57.5 in 146 cm
5. Recovery Percentage: 95.8
6. Core Accepted: (Yes) / No



Core Sections To Process:

A

B: _____

A

Z: _____

Drive Notes: Drive fully

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Most 0-25 cm, dk gray silt to depth

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4-Duwamish
 Date: 6/15/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: SC339
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 192699.23

Long/Easting: 1276784.48

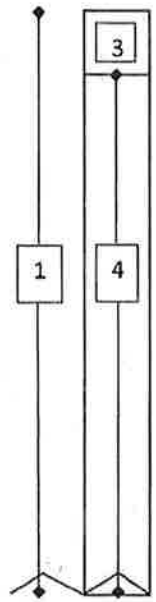
A. Water Depth
 DTM Depth Sounder: 9.91 ft
 DTM Lead Line:

B. Water Level Measurements
 Time: 0708
 Height: 4.04 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
 - 5.87

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 ft
 2. Drive Length: 56 in 142.2 cm
 3. Headspace Measurement: 11 in.
 4. Recovery Measurement: 49 in 124.5 cm
 5. Recovery Percentage: 87.5
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- AE: _____
- B: _____
- CA: _____
- Z: _____

Drive Notes:
 Drove freely to depth

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Soupy brown layer, top 10 cm.
 Remainder of core fairly homogeneous dark brown grey, firm silt

Notes:
 Excessively inhomogeneous

Project: AOC4 - Duwamish
 Date: 6/15/20
 Weather: 50s, cloudy
 Logged By: C Durand

Location ID: SC340
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 192747.27

Long/Easting: 1276869.37

A. Water Depth

DTM Depth Sounder: 9.91 ft
 DTM Lead Line:

B. Water Level Measurements

Time: 0718
 Height: 3.86 ft
 Source: RTK

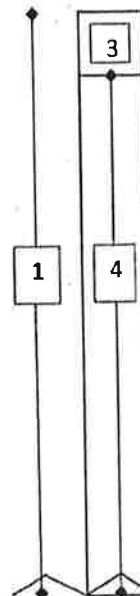
C. Mudline Elevation (ft MLLW)

- 6.05

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 57 in 144.8 cm
3. Headspace Measurement: 9.5 in
4. Recovery Measurement: 50.5 in 128.3 cm
5. Recovery Percentage: 88.6
6. Core Accepted: (Yes) / No



Core Sections To Process:

- AE: _____
- B: _____
- CK: _____
- Z: _____

Drive Notes:

Drove freely to depth.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 10 cm; brownish, silty, and wet. No odor
 Next 10 cm; dark grey and moist. No odor
 Rest of core; black, silty sand, homogeneous, moist, and dense.

Notes:

Gravity vibrator

Project: AOC4 - Duwamish
 Date: 6/15/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: SC342
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 192802.93

Long/Easting: 1277032.09

A. Water Depth

DTM Depth Sounder: 11.03 ft
 DTM Lead Line:

B. Water Level Measurements

Time: 0724
 Height: 3.72 ft
 Source: RTK

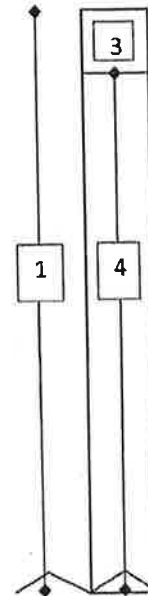
C. Mudline Elevation (ft MLLW)

- 7.31

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 60 in 152.4 cm
3. Headspace Measurement: 0
4. Recovery Measurement: 60 in 152.4 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

AC: _____
 B: _____
 CR: _____
 Z: _____

Drive Notes:

Drove freely to depth.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top few cm wet, loose, brown, no odor, no visible organic matter
 Remaining core dark brown/black, compact, dry, no visible organic matter

Notes:

Gravity inductor

Project: AOC4 - Duwamish
Date: 6/15/20
Weather: 50s, Cloudy
Logged By: C Durand

Location ID: SC343
Attempt No.: 1
Core Type: Intertidal Subtidal Shoaling
Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 192740.21

Long/Easting: 1277072.97

A. Water Depth

DTM Depth Sounder: 11.95 ft
DTM Lead Line:

B. Water Level Measurements

Time: 0743
Height: 3.45 ft
Source: RTK

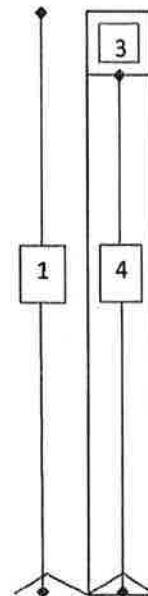
C. Mudline Elevation (ft MLLW)

-8.50

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 feet
- 2. Drive Length: 56 in 142.2 cm
- 3. Headspace Measurement: 10.5 in
- 4. Recovery Measurement: 49.5 in 125.7 cm
- 5. Recovery Percentage: 88.3
- 6. Core Accepted: (Yes) / No



Core Sections To Process:

- AC: _____
- B: _____
- CA: _____
- Z: _____

Drive Notes:

Drove freely to depth.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top few cm brown, loose and wet, trace coarse organic matter.
Remaining core dark brown/black compact, trace organic matter
No odor but all

Notes:

Gravity vibro core

Project: AOC4 - Downemish
 Date: 6/15/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: SC345
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 192767.91

Long/Easting: 1277272.77

A. Water Depth

DTM Depth Sounder: 9.85 ft
 DTM Lead Line:

B. Water Level Measurements

Time: 0856
 Height: 3.34 ft
 Source: RTK

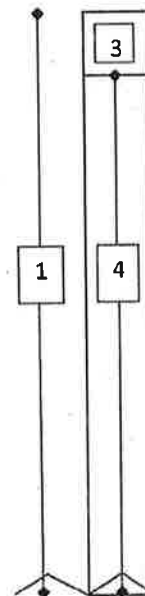
C. Mudline Elevation (ft MLLW)

-6.51

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 60 in 152.4 cm
3. Headspace Measurement: 3.5 in
4. Recovery Measurement: 56.5 in 143.5 cm
5. Recovery Percentage: 94.2
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove freely to depth.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10 cm silt, brown surface, wet
 10cm -> 20cm - silt, fine sand, medium gray, dense, moist
 20cm - 57cm - silt, fine sand, dark grey, dense, moist

Notes:

Gravity vibracore

Project: AOC4 - Duwamish
 Date: 6/15/20
 Weather: 50, cloudy
 Logged By: CDurand

Location ID: SC346
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat(Northing): 192822.23

Long(Easting): 1277189.09

A. Water Depth

DTM Depth Sounder: 12.08 ft
 DTM Lead Line:

B. Water Level Measurements

Time: 0735
 Height: 3.59 ft
 Source: RTK

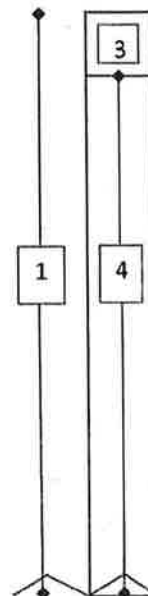
C. Mudline Elevation (ft MLLW)

-8.49

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 56 in 142.2 cm
3. Headspace Measurement: 14 in
4. Recovery Measurement: 46 in 116.8 cm
5. Recovery Percentage: 82.1
6. Core Accepted: Yes No



Core Sections To Process:

- A: _____
 B: _____
 CA: _____
 Z: _____

Drive Notes:

Drive freely to depth.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Brown surface, silty fine sand (0-10cm)
 trace biota (worms), wet
 10 cm to bottom of core:
 Dark grey, silt, fine sand, no odor, dense,
 moist

Notes:

Gravity vibracore

Project: AOC4 - DUNHAMISH
Date: 6/15/20
Weather: 50s, cloudy
Logged By: CDurand

Location ID: SC348
Attempt No.: 1
Core Type: Intertidal (Subtidal) Shoaling
Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat(Northing): 192931.64

Long(Easting): 1277316.16

A. Water Depth

DTM Depth Sounder: 12.01 ft
DTM Lead Line:

B. Water Level Measurements

Time: 0927
Height: 3.58 ft
Source: RTK

C. Mudline Elevation (ft MLLW)

- 8.43

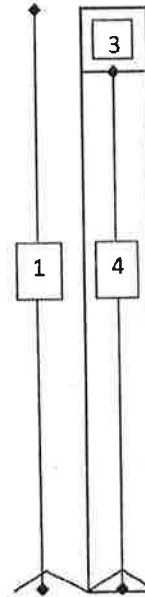
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- Core Tube Length: 5 feet
- Drive Length: 56 in 142.2 cm
- Headspace Measurement: 4.5 in
- Recovery Measurement: 50.5 in 128.3 cm
- Recovery Percentage: 90.2
- Core Accepted: (Yes) / No

Drive Notes:

Drove freely to depth.



Core Sections To Process:

- A.B:
- B:
- CA:
- Z:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top few cm light brown, one visible algaecyte, wet
Remaining core dark brown/black no visible organic matter

Notes:

Excessively vibracored

Project: ADC4 - Duwamish
 Date: 6/15/20
 Weather: 50s, cloudy
 Logged By: C. Durand

Location ID: SC349
 Attempt No.: 2
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 192834.64

Long/Easting: 1277359.63

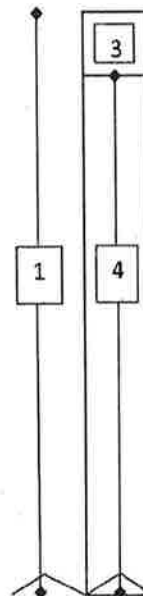
A. Water Depth
 DTM Depth Sounder: 11.52 ft
 DTM Lead Line:

B. Water Level Measurements
 Time: 0910
 Height: 3.47 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
 - 8.05

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 feet
 2. Drive Length: 50 in 127.0 cm
 3. Headspace Measurement: 14.5 in
 4. Recovery Measurement: 45.5 in 115.6 cm
 5. Recovery Percentage: 90
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 CA: _____
 Z: _____

Drive Notes:
 Added chuck for attempt 2.
 Drove freely to depth.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 20cm sandy, sticks visible
 Voids present in bottom 40cm (small voids)

Notes:
 Gravity vibracore

Project: AOC4 - Duwamish
 Date: 6/15/20
 Weather: 50s, cloudy
 Logged By: CDurant

Location ID: SC351
 Attempt No.: 1
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 192930.44

Long/Easting: 1277484.91

A. Water Depth

DTM Depth Sounder: 12.18 ft
 DTM Lead Line:

B. Water Level Measurements

Time: 0940
 Height: 3.82 ft
 Source: RTK

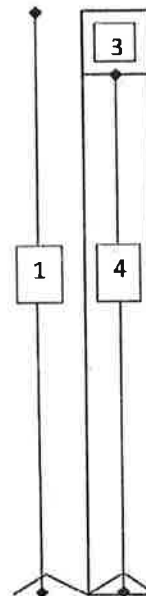
C. Mudline Elevation (ft MLLW)

- 8.36

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 57 in 144.8 cm
3. Headspace Measurement: 12 in
4. Recovery Measurement: 48 in @ 121.9 cm
5. Recovery Percentage: 84.2
6. Core Accepted: Yes / No



Core Sections To Process:

- A&B: _____
- B: _____
- CA: _____
- Z: _____

Drive Notes:

Drive freely to depth.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Surface to 30cm, wet brown mottled into dark brown. Mostly homogeneous dark brown grey

Notes:

Gravity vibrocorer

Project: ADC4 - Duwanan
 Date: 6/15/20
 Weather: 50s, Cloudy
 Logged By: C. Durdred

Location ID: SC 353
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 193027.74

Long/Easting: 1277429.30

A. Water Depth
 DTM Depth Sounder: 9.35 ft
 DTM Lead Line:

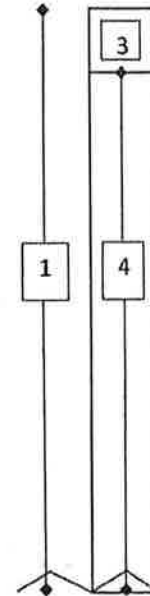
B. Water Level Measurements
 Time: 0934
 Height: 3.72 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
 - 5.63

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 46 in 116.8
3. Headspace Measurement: 20 in
4. Recovery Measurement: 40 in 101.6 (cm) 40 in
5. Recovery Percentage: 87.0
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal.

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-10 cm soft brown silt, wet
 10-30 cm soft, medium gray silt
 30 cm - 50 cm - dense, dark grey, silt,
 50 cm - band of brown (coarse sand & rock (2 notes))
 70 cm - sand (coarse) and gravel; wood @ bottom of core

Notes:

Gravity vibrator

Project: AOC 4 - Duwamish
Date: 6/9/20
Weather: 50% cloudy, showers
Logged By: C Durand

Location ID: IT 354
Attempt No.: 10-45
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
Lat/Northing: 1276710.95

Long/Easting: 192330.87

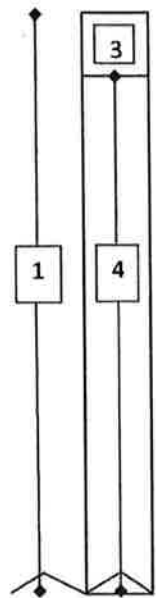
A. Water Depth
DTM Depth Sounder: 12.11 ft.
DTM Lead Line:

B. Water Level Measurements
Time: 0753
Height: 10.40 ft.
Source: RTK

C. Mudline Elevation (ft MLLW)
- 1.71

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 feet
 2. Drive Length: 60 in
 3. Headspace Measurement: 12 in
 4. Recovery Measurement: 48 in x 122 (cm)
 5. Recovery Percentage: 80
 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A
- B
- C
- Z

Drive Notes: Drive freely

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dr. gray silt to depth

Notes: Gravity vibrated

Project: ADC4 - Duwamish
 Date: 6/9/20
 Weather: 50s, Cloudy
 Logged By: CDurand

Location ID: SC355
 Attempt No.: 1
 Core Type: Intertidal (Subtidal) Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276712.47

Long/Easting: 192212.88

A. Water Depth
 DTM Depth Sounder: 10.34 ft
 DTM Lead Line:

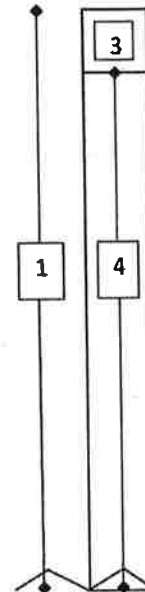
B. Water Level Measurements
 Time: 0924
 Height: 8.59 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
 - 1.75

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 56 in
3. Headspace Measurement: 9 in
4. Recovery Measurement: 51 in / 129.5 cm
5. Recovery Percentage: 91
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- Z: _____

Drive Notes: Drive freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Brown & gray silt to 40 cm
 > 40 cm dk gray silt to depth

Notes:

Gravity is biased

Project: AOC4 - Duwanish
 Date: 6/9/20
 Weather: 50% cloudy, showers
 Logged By: CDurant

Location ID: IT356
 Attempt No.: 1-0-45
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: P.S, J.S, T.D, C.D

Field Collection Coordinates:
 Lat/Northing: 1276781.61

Long/Easting: 19220431

A. Water Depth
 DTM Depth Sounder: 11.09 ft
 DTM Lead Line:

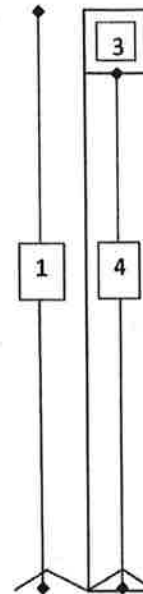
B. Water Level Measurements
 Time: 0803
 Height: 10.3 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
 - 0.79

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 48 in
3. Headspace Measurement: 19.5 in
4. Recovery Measurement: 40.5 in @ 103 cm
5. Recovery Percentage: 84
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- Z: _____

Drive Notes: Drove freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt to depth

Notes:

Gravity vibrator

Project: AOC 4 - Downamish

Location ID: IT 357

Date: 6/9/20

Attempt No.: 1 0-45

Weather: 50s, Cloudy

Core Type: (Intertidal) Subtidal Shoaling

Logged By: CDurand

Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:

Lat/Northing: 1276823.57

Long/Easting: 192129.59

A. Water Depth

DTM Depth Sounder: 9.98 ft

DTM Lead Line:

B. Water Level Measurements

Time: 0902

Height: 9.13 ft

Source: RTK

C. Mudline Elevation (ft MLLW)

- 0.85

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet

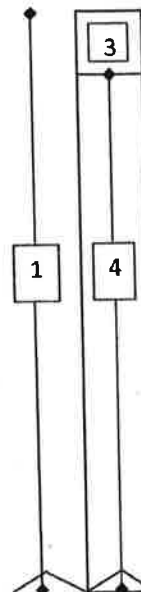
2. Drive Length: 58 in

3. Headspace Measurement: 7 in

4. Recovery Measurement: 53 in \times 135 cm

5. Recovery Percentage: 91

6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: Drive freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt to depth
Moist 0-10 cm

Notes:

Gravity whacker

Project: AOC4 - Duwamish

Location ID: IT 358

Date: 6/18/20

Attempt No.: 1

Weather: 50%, partly cloudy

Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)

Logged By: CDurak

Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 192126.84

Long/Easting: 127646.01

A. Water Depth

DTM Depth Sounder: 10 ft

DTM Lead Line: -2.7 ft

B. Water Level Measurements

Time: 0814

Height: 2.06 ft

Source: RTK tide station

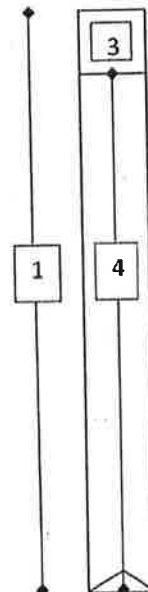
C. Mudline Elevation

- 0.64 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 Feet
2. Penetration Depth: 45 ft (in) 114.3 cm
3. Headspace Measurement: 17 in.
4. Recovery Depth: 43 ft (in) 110.5 cm
5. Recovery Percentage: 95.6
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 16 cm ^{light brown} soft silt and fine sand, trace coarse organic matter visible
 Next 30 cm is light brown silt and fine sand, homogeneous. Remaining core is dark brown/black silt, no visible organic matter. Core has no odor throughout.

Notes:

Gravity vibration

Project: APC4 - Duwamish
Date: 6/10/20
Weather: 59°, Cloudy
Logged By: CDurand

Location ID: IT 359
Attempt No.: 1 0-45
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
Lat/Northing: 1276346.92

Long/Easting: 192108.26

A. Water Depth

DTM Depth Sounder: 11.88 ft.
DTM Lead Line:

B. Water Level Measurements

Time: 0908
Height: 9.08 ft.
Source: RTK

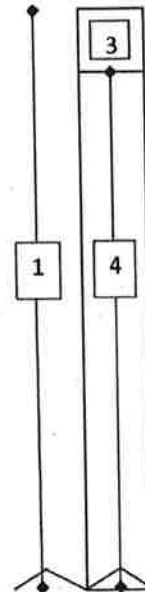
C. Mudline Elevation (ft MLLW)

- 2.80

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 feet
- 2. Drive Length: 24 in
- 3. Headspace Measurement: 38 in
- 4. Recovery Measurement: 22 in R 56 (cm)
- 5. Recovery Percentage: 91.7
- 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- A-C: _____
- Z: _____

Drive Notes: to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark grey silt to depth

Notes:

Gravity intrusion

Project: AOC4 - Duwamish

Location ID: IT360

Date: 6/18/20

Attempt No.: 1

Weather: 60s, partly cloudy

Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)

Logged By: C. Durand

Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 191985.95

Long/Easting: 1276372.58

A. Water Depth

DTM Depth Sounder: _____ ft

DTM Lead Line: 0.25 ft

B. Water Level Measurements

Time: 1230

Height: 2.94 ft

Source: RTK tide station

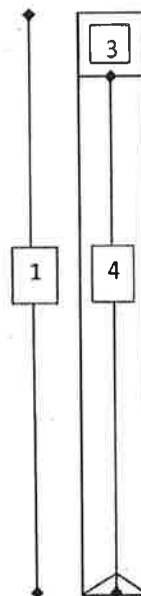
C. Mudline Elevation

+2.69 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 48 ft/in 121.9 cm
3. Headspace Measurement: 12 in
4. Recovery Depth: 48 ft/in 121.9 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes, / No)



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Drive freely to depth

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~25 cm soft light brown silt, trace organic matter visible. Remain core relatively dry silt. No visible organic matter, No odor throughout core

Notes:

Gravity inshore

Sediment Core Collection Form

Project: ADC4-DUNCOMISH
 Date: 06/05/20
 Weather: 60% and cloudy
 Logged By: CPurand

Location ID: IT 361
 Attempt No.: 1 ⁰⁻⁴¹⁵
 Core Type: Intertidal Subtidal Shoaling
 Field Staff: PT, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276496.29

Long/Easting: 191911.72

A. Water Depth

DTM Depth Sounder: 2.46 ft
 DTM Lead Line: _____

B. Water Level Measurements

Time: 1306
 Height: 0.16 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)

-2.62 -2.30
~~DR~~

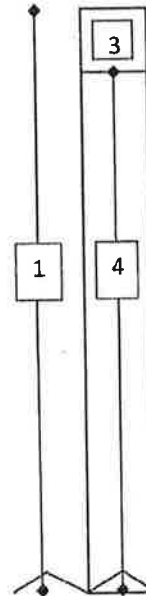
Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'
2. Drive Length: 39 in
3. Headspace Measurement: 23 in
4. Recovery Measurement: 37 in 94.0 cm
5. Recovery Percentage: 94.3
6. Core Accepted (Yes) No

Drive Notes:

Refusal



Core Sections To Process:

- A
B
C
Z

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-5 cm moist gray/bw. silt.
dk gray silt to depth

Notes:

Gravity vibracore

Project: ADC4 - Downemish
Date: 6/9/20
Weather: 50s, cloudy, showers
Logged By: CDurand

Location ID: 5C362
Attempt No.: 1
Core Type: Intertidal Subtidal Shoaling
Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
Lat/Northing: 1276734.10

Long/Easting: 191900.87

A. Water Depth

DTM Depth Sounder: 15.32 ft
DTM Lead Line:

B. Water Level Measurements

Time: 0813
Height: 10.21 ft
Source: RTK

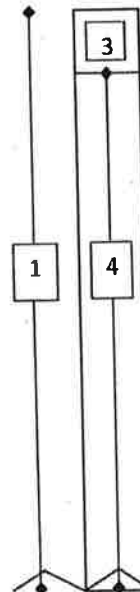
C. Mudline Elevation (ft MLLW)

- 5.11

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 60 in
3. Headspace Measurement: 45 in
4. Recovery Measurement: 55.5 in / 141 (cm)
5. Recovery Percentage: 92.5
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: Drive freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Brown-gray to 50 cm silt
> 50 cm - dk gray silt

Notes:

Gravelly vibrocorer

Project: AOC4 - Downamish
 Date: 6/9/20
 Weather: 50s, cloudy, showers
 Logged By: CDurand

Location ID: IT 363
 Attempt No.: 1-0-45
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276895.94

Long/Easting: 191900.37

A. Water Depth
 DTM Depth Sounder: 10.11 ft
 DTM Lead Line:

B. Water Level Measurements
 Time: 0926
 Height: 9.82 ft.
 Source: RTK

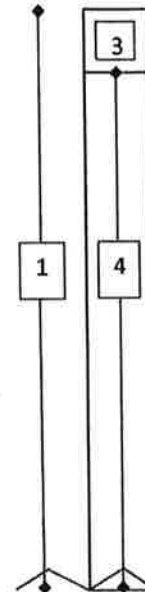
C. Mudline Elevation (ft MLLW)
 - 0.29

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 56 in
3. Headspace Measurement: 9 in
4. Recovery Measurement: 51 in (129.5 cm)
5. Recovery Percentage: 91
6. Core Accepted: (Yes) / No

Drive Notes: Drove freely



Core Sections To Process:

- A: _____
- B: _____
- Z: _____

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt to depth

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: ADC4-Duwamish
Date: 6/10/20
Weather: 50s, cloudy
Logged By: CDurand

Location ID: IT 364
Attempt No.: 5-0-45
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: PJ, JS, CD

Field Collection Coordinates:
Lat/Northing: 1276923.26

Long/Easting: 191849.35

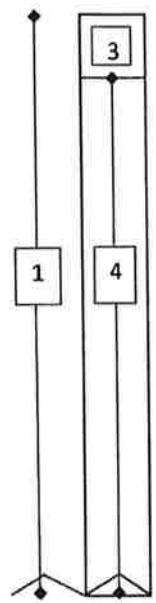
A. Water Depth
DTM Depth Sounder: 8.10 ft.
DTM Lead Line:

B. Water Level Measurements
Time: ~~0722~~ 0722
Height: 9.29 ft.
Source: RTK

C. Mudline Elevation (ft MLLW)
+ 1.19

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5'
 2. Drive Length: 60 in
 3. Headspace Measurement: 1 in
 4. Recovery Measurement: 59 in / 150 cm
 5. Recovery Percentage: 98
 6. Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes: Drive freely

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark gray silt to depth

Notes:
Gravity, vibrance

Project: AOC4 - Duwamish
Date: 06/05/20
Weather: 59° partly sunny
Logged By: CDurand

Location ID: IT305
Attempt No.: 1
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: PJ, JS, TP, CD

Field Collection Coordinates:
Lat/Northing: 1276529.90

Long/Easting: 191766.27

A. Water Depth
DTM Depth Sounder: 2530.50
DTM Lead Line:

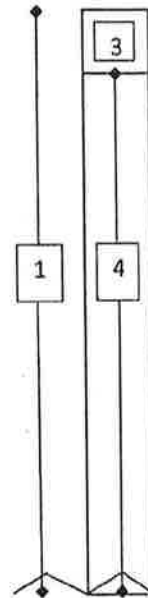
B. Water Level Measurements
Time: 1122
Height: -2.33 ft.
Source: RTK

C. Mudline Elevation (ft MLLW)
486 - 2.83

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5'
2. Drive Length: 34 in
3. Headspace Measurement: 32 in
4. Recovery Measurement: 28 in / 71.1 cm
5. Recovery Percentage: 82
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A:
- B:
- C:
- Z:

Drive Notes:

Refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Gray med. sand to depth.

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwanian
 Date: 6/17/20
 Weather: 60s, partly cloudy
 Logged By: CDurand

Location ID: SC366
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 191548.81

Long/Easting: 1274610.90

A. Water Depth
 DTM Depth Sounder: 9.98 ft
 DTM Lead Line: _____ ft

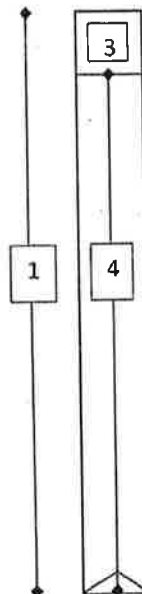
B. Water Level Measurements
 Time: 1146
 Height: 2.81 ft
 Source: RTK tide station

C. Mudline Elevation
-7.17 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 28 ft/(in) 71.1 cm
3. Headspace Measurement: 32 in
4. Recovery Depth: 28 ft/(in) 71.1 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive freely to depth. CD
HIT REFUSAL!

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

~5cm silt and rest uniform medium sand. Bugs crawling around. NO odor.

Large rock ~10cm deep
Veal waste, sticks ~25cm deep

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/17/20
 Weather: 60s, partly cloudy
 Logged By: CDurand

Location ID: IT 367
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MA, TA, CA

Field Collection Coordinates:
 Lat/Northing: 191448.85

Long/Easting: 1276867.69

A. Water Depth
 DTM Depth Sounder: 4.86 ft
 DTM Lead Line: _____ ft

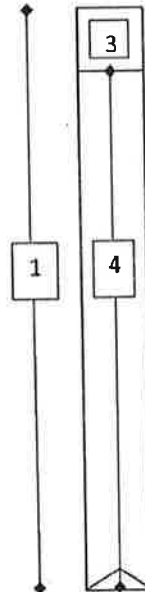
B. Water Level Measurements
 Time: 1208
 Height: 3.73 ft
 Source: RTK tide station

C. Mudline Elevation
-1.14 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 37 ft/in) 94.0 cm
3. Headspace Measurement: 23 in.
4. Recovery Depth: 37 ft/in) 94.0 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~5 cm light brown, soft silt homogeneous. Remaining core dark brown/black homogeneous silt throughout. No odor or visible organic matter.

Notes:

Gravity vibracore

Project: AOC4 - DUWOMISM
 Date: 6/16/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: SC368
 Attempt No.: 4
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 191333.97

Long/Easting: 1276588.90

A. Water Depth
 DTM Depth Sounder: 8.07 ft
 DTM Lead Line: _____ ft

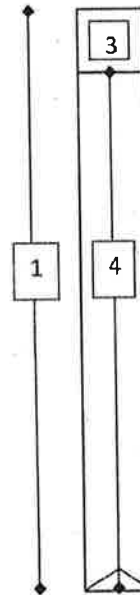
B. Water Level Measurements
 Time: 0916
 Height: 2.08 ft
 Source: RTK tide station

C. Mudline Elevation
 - 5.99 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 26 ft (in.) 66.0 cm
3. Headspace Measurement: 38 in
4. Recovery Depth: 22 ft (in.) 55.9 cm
5. Recovery Percentage: 84.6
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Hit refusal. Coarse sand.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

silty w/ medium sand - native Duwamish?

top 4cm - silty, no medium sand, dark brown

~~no~~ no odor

Notes:

Gravity vibracore

Project: AOC4 - Duwanish
 Date: 6/9/30
 Weather: 50s, cloudy
 Logged By: CPurand

Location ID: IT369
 Attempt No.: 1-0-45
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PS, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276948.39

Long/Easting: 191325.07

A. Water Depth -2.00
 DTM Depth Sounder: 12.50 ft
 DTM Lead Line: no

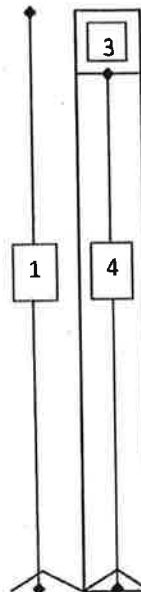
B. Water Level Measurements
 Time: 1055
 Height: 5.15 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
~~7.35~~ 3.15

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 42 in
3. Headspace Measurement: 22.5 in
4. Recovery Measurement: 37.5 # in 95 cm
5. Recovery Percentage: 89
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A
C
 B:
K
 Z:

Drive Notes: to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dk. gray silt to depth

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Dunhamish
 Date: 6/17/20
 Weather: 60s, partly cloudy
 Logged By: CDurand

Location ID: SC370
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 191189.81

Long/Easting: 1276649.15

A. Water Depth

DTM Depth Sounder: 6.96 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0913
 Height: 0.85 ft
 Source: RTK tide station

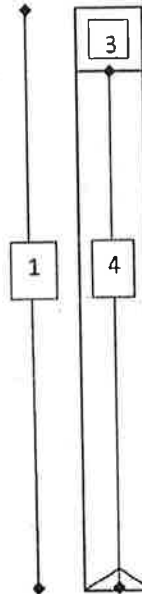
C. Mudline Elevation

-6.11 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 35 ft (in) 63.5 cm
3. Headspace Measurement: 3 1/2 in
4. Recovery Depth: 24 ft (in) 61.0 cm
5. Recovery Percentage: 96.0
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Homogeneous medium sand, some silt

no odor

Notes:

Gravity vibrator

Project: AOC4 - DUNWAMISH

Location ID: IT371

Date: 6/17/20

Attempt No.: 1

Weather: 60s, partly cloudy

Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)

Logged By: C. Durand

Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 191122.08

Long/Easting: 1276987.73

A. Water Depth

DTM Depth Sounder: 2.53 ft

DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 1215

Height: 3.72 ft

Source: RTK tide station

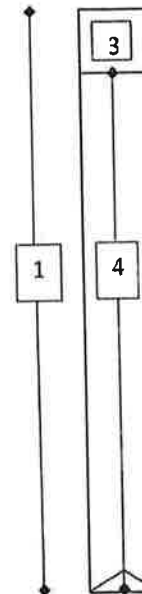
C. Mudline Elevation

+1.19 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 ft
2. Penetration Depth: 44 ft (14) 111.8 cm
3. Headspace Measurement: 17 in.
4. Recovery Depth: 43 ft (13) 109.2 cm
5. Recovery Percentage: 97.7
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-29cm - wet siltier, streaks of brownish red. Majority of core homogeneous dark grey-brown silt, mottled bottom 10cm sandy

Notes:

Gravity observer

Project: AOC4 - Duwamish
 Date: 6/9/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: IT 372
 Attempt No.: 0-45
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1277041.58

Long/Easting: 190942.12

A. Water Depth

DTM Depth Sounder: 3.22 ft
 DTM Lead Line:

B. Water Level Measurements

Time: 1102
 Height: 4.66 ft
 Source: RTK

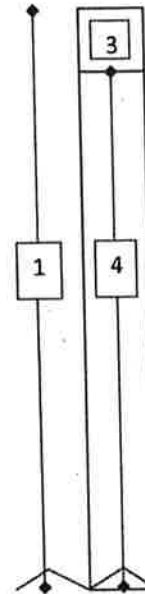
C. Mudline Elevation (ft MLLW)

+ 1.44

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 42 in
3. Headspace Measurement: 24 in
4. Recovery Measurement: 36 in ft 91.4 cm
5. Recovery Percentage: 85.7
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: to refusal

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DF gray silt to ~60 cm.
 > 60 cm, med/coarse sand w/ gray silt

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4-Duwamish
 Date: 6/10/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: IT373
 Attempt No.: 045
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276568.51

Long/Easting: 190729.91

A. Water Depth
 DTM Depth Sounder: 5.42 ft.
 DTM Lead Line: _____

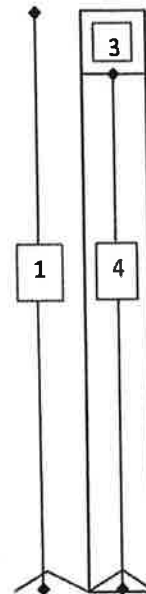
B. Water Level Measurements
 Time: 0941
 Height: 8.54 ft.
 Source: RTK

C. Mudline Elevation (ft MLLW)
+ 3.12

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 60 in
3. Headspace Measurement: 5 in
4. Recovery Measurement: 55 in @ 140 cm
5. Recovery Percentage: 91.7
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A _____
 B: _____
AC _____
 Z: _____

Drive Notes: Drive freely

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark gray silt to depth.

Notes:

Gravity vibrated

Project: AOC4-Duwamish
Date: 6/10/20
Weather: 59°, cloudy
Logged By: CDurand

Location ID: IT 374
Attempt No.: 1 0-45
Core Type: (Intertidal) Subtidal Shoaling
Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
Lat (Northing): 1276579.75

Long (Easting): 190582.24

A. Water Depth
DTM Depth Sounder: 5.06
DTM Lead Line:

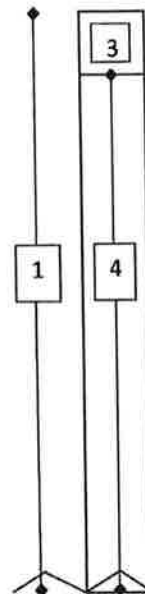
B. Water Level Measurements
Time: 0923
Height: 8.93
Source: RTK

C. Mudline Elevation (ft MLLW)
+3.87

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- 1. Core Tube Length: 5 feet
- 2. Drive Length: 57 in
- 3. Headspace Measurement: 6 in
- 4. Recovery Measurement: 54 in \approx 137 cm
- 5. Recovery Percentage: 95
- 6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes: Drove freely

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark gray silt to depth

Notes:

Gently vibrated

Project: AOC4 - DOWAMISH
 Date: 6/10/20
 Weather: 60s, cloudy
 Logged By: C Durand

Location ID: IT 375
 Attempt No.: 10-45
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1276673.29

Long/Easting: 190611.98

A. Water Depth
 DTM Depth Sounder: 9.62 ft.
 DTM Lead Line:

B. Water Level Measurements
 Time: 0949
 Height: 8.35 ft.
 Source: RTK

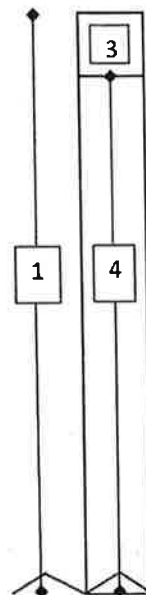
C. Mudline Elevation (ft MLLW)
 -1.27

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 40 in
3. Headspace Measurement: 25 in
4. Recovery Measurement: 35 in / 88.9 cm
5. Recovery Percentage: 87.5
6. Core Accepted: (Yes) / No

Drive Notes: to refusal



Core Sections To Process:

A

B:

C

Z:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Dark gray silt to depth

Notes:

loosely vibracored

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/19/20
 Weather: 50%, partly cloudy
 Logged By: CDurand

Location ID: IT376
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MP, TP, CD

Field Collection Coordinates:
 Lat/Northing: 190782.36

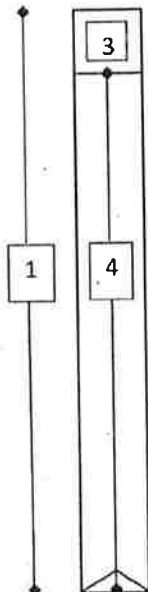
Long/Easting: 1277047.21

A. Water Depth
 DTM Depth Sounder: 5.42 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 0756
 Height: 2.76 ft
 Source: RTK tide station

C. Mudline Elevation
 -2.66 (ft MLLW)
 Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Penetration Depth: 50 ft/in 127.0 cm
 3. Headspace Measurement: 11.5 in
 4. Recovery Depth: 48.5 ft/in 123.2 cm
 5. Recovery Percentage: 97.0
 6. Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:
 Drove to refusal.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~25cm light brown silt with visible coarse organic matter. Top ~25cm is wet and soft. Remaining core is homogeneous coarse sand and silt with no visible organic matter. No odor throughout core

Notes:
 Gravity vibrator

Sediment Core Collection Form

Project: AOC4-Duwamish
 Date: 6/9/20
 Weather: 50s, cloudy
 Logged By: C Durand

Location ID: IT 377
 Attempt No.: 1 0-25
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1277138.85

Long/Easting: 190833.66

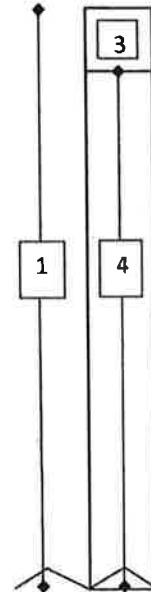
A. Water Depth
 DTM Depth Sounder: 3.5 ft
 DTM Lead Line: _____

B. Water Level Measurements
 Time: 1109
 Height: 4.22 ft
 Source: RTK

C. Mudline Elevation (ft MLLW)
+ 0.72

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Drive Length: 24 in
 3. Headspace Measurement: 38.5 in
 4. Recovery Measurement: 21.5 in ft 54.6 cm
 5. Recovery Percentage: 89.6
 6. Core Accepted: (Yes) / No



Core Sections To Process:

A

B: _____

C

Z: _____

Drive Notes: To refusal

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

dk. gray silt to depth

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/18/06
 Weather: 50s, partly cloudy
 Logged By: CDurand

Location ID: IT378
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 19073854

Long/Easting: 1277188.82

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: -1.6 ft

B. Water Level Measurements

Time: 0750
 Height: 2.76 ft
 Source: RTK tide station

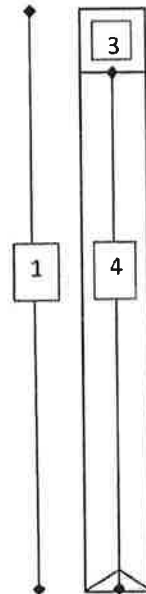
C. Mudline Elevation

+1.16 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 49 ft/in) 124.5 cm
3. Headspace Measurement: 11.5 in
4. Recovery Depth: 48.5 ft/in) 123.2 cm
5. Recovery Percentage: 99.0
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Surface 10 cm muckier, organic matter sticks, olive color
 Core from 10cm-down homogeneous brown silt and sand

Notes:

Gravity vibracore

Project: ADC4 - Duwamish
 Date: 6/9/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: IT 379
 Attempt No.: 2 0-45
 Core Type: (Intertidal) Subtidal Shoaling
 Field Staff: PJ, JS, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1277341.01

Long/Easting: ^N 190613.83

A. Water Depth - 0.5
 DTM Depth Sounder: 7.5 ft
 DTM Lead Line:

B. Water Level Measurements
 Time: 12:16
 Height: 1.52 ft
 Source: RTK

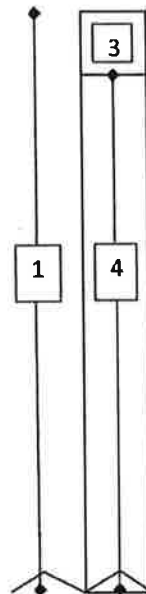
C. Mudline Elevation (ft MLLW)
 +1.02 +1.02

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Drive Length: 32
3. Headspace Measurement: 28.5
4. Recovery Measurement: 31.5 ft in 80cm
5. Recovery Percentage: 98
6. Core Accepted: (Yes) / No

Drive Notes: TO refusal
 Sampled on beach 0.5 ft above
 waterline.



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

DK gray silt to depth

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - DUWOMISM
Date: 6/30/20
Weather: 60s, Sunny
Logged By: CDurand

Location ID: 5C380
Attempt No.: 12
Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
Lat/Northing: 190537.26

Long/Easting: 1277363.55

A. Water Depth
 DTM Depth Sounder: 15.46 ft
 DTM Lead Line: _____ ft

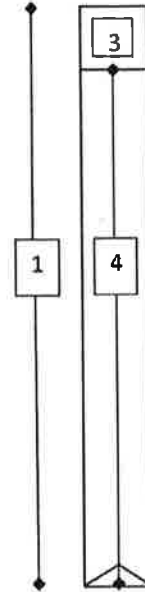
B. Water Level Measurements
 Time: 0719
 Height: 10.08 ft
 Source: RTK tide station

C. Mudline Elevation
 - 5.38 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 Feet
2. Penetration Depth: 14.5 ft/in. 49.5 cm
3. Headspace Measurement: 40.5 in
4. Recovery Depth: 14.5 ft/in. 49.5 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Changed Chuck. Hit refusal. Per prior EPA direction, we collected the best sample we could from within the 30 Foot radius and from within the Recovery Category 1 boundary.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Entire core is homogeneous brown coarse sand with no ads.
 Recovered core amount was less than the corrected core length required for sample. Entire 47cm core was used as sample

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - DUINOMISH
Date: 6/16/20
Weather: 50%, cloudy
Logged By: CDurand

Location ID: SC 381
Attempt No.: 2 of 5
Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
Lat(Northing): 190430.54

Long(Easting): 1277367.95

A. Water Depth

DTM Depth Sounder: 7.75 ft
DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 0951
Height: 2.38 ft
Source: RTK tide station

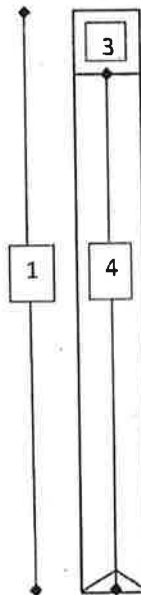
C. Mudline Elevation

-5.37 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 Feet
2. Penetration Depth: 3.2 ft (in) 81.3 cm
3. Headspace Measurement: 29.5 in
4. Recovery Depth: 30.5 ft (in) 77.5 cm
5. Recovery Percentage: 95.3
6. Core Accepted: (Yes) No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Added chuck.
Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Homogeneous coarse sand throughout core, small gravel in trace amounts

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/17/20
 Weather: 60s, partly cloudy
 Logged By: CDurand

Location ID: SC383
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 190071.37

Long/Easting: 1276999.21

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: + 0.1 ft

B. Water Level Measurements

Time: 1323
 Height: 6.2 ft
 Source: RTK tide station

C. Mudline Elevation

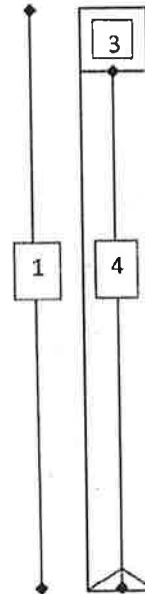
+ 6.22 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 24.5 ft (in) 62.0 cm
3. Headspace Measurement: 36.5 in
4. Recovery Depth: 23.5 ft (in) 59.7 cm
5. Recovery Percentage: 96.0
6. Core Accepted: Yes No

above water line



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal. Thai spoke with Susan about SC382. Original target was within vegetated area. Susan directed us to obtain the sample from the mudflat just waterward of the target.
 Per GPS, sample was taken 22 feet from the target.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Grass present at surface
 homogeneous brown silt with sand, gravel.
 Clumps of red clay throughout.

Notes:

Gravity inbracover

Sediment Core Collection Form

Project: AOC4 - Dewamish
 Date: 6/23/20
 Weather: 60s, sunny
 Logged By: C Durand

Location ID: IT 383
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 189892.74

Long/Easting: 1277152.44

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: -3.8 ft

B. Water Level Measurements

Time: 0615
 Height: 10.73 ft
 Source: RTK tide station

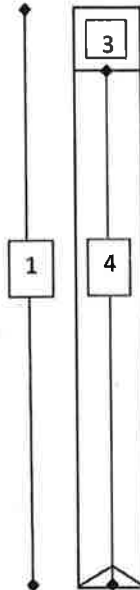
C. Mudline Elevation

+6.93 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 Feet
2. Penetration Depth: 24.5 ft (in) 67.2 cm
3. Headspace Measurement: 35.5 in
4. Recovery Depth: 24.5 ft (in) 67.2 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Target coordinates are approximately 5 feet from newly vegetated and fenced area

Silty sand through entire core; Moist; Gray; NO odor; gravel visible @ 50-55cm; coarse/waxy debris @ ~20cm from top

Notes:

Gravity in recovery

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/23/20
 Weather: 60s sunny
 Logged By: CDurand

Location ID: IT 384
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 139853.18

Long/Easting: 1277228.14

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: 3.4 ft

B. Water Level Measurements

Time: 0606
 Height: 10.73 ft
 Source: RTK tide station

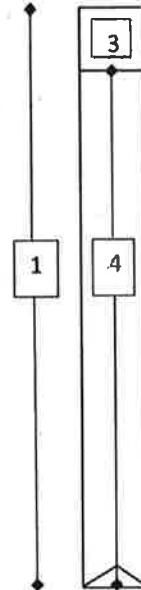
C. Mudline Elevation

+7.33 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 24.5 ft (in) 62.2 cm
3. Headspace Measurement: 35.6 in
4. Recovery Depth: 24.5 ft (in) 62.2 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Target coordinates are approximately 5 feet from newly vegetated and fenced area.

brown, silty core - top 40cm

silty, fine, multi-colored sand - bottom 25cm

small organic debris in top exposed surface of core

no odor

Notes:

Coravity inbra core

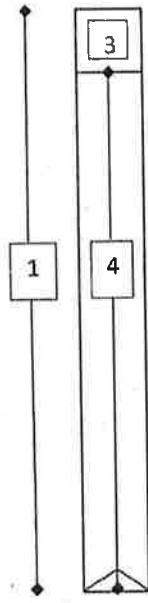
Project: AOC4 - Duwamish
 Date: 6/17/20
 Weather: 60s, partly cloudy
 Logged By: C Durand

Location ID: IT385
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 1277224.98
 Long/Easting: 190006.89

A. Water Depth
 DTM Depth Sounder: 10 ft
 DTM Lead Line: 10.25 ft
 B. Water Level Measurements
 Time: 1319
 Height: 6.12 ft
 Source: RTK tide station
 C. Mudline Elevation
~~DTM 5.87~~ (ft MLLW)
~~DTM 6.37~~ 5.87
 Recovery Measurements (prior to cuts)

Core Collection Recovery Details:
 1. Core Tube Length: 5 feet
 2. Penetration Depth: 46.5 ft/in: 118.1 cm
 3. Headspace Measurement: 14 in.
 4. Recovery Depth: 46 ft/in: 116.8 cm
 5. Recovery Percentage: 99.0
 6. Core Accepted: (Yes) No



Core Sections To Process:
 A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:
 Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota
 First ~10 cm is silt with coarse sand, some gravel, and visible pieces of red brick. Remaining core is homogeneous silt and coarse sand. No odor or visible organic matter

Notes:
 Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwanish
 Date: 6/17/20
 Weather: 60s, partly cloudy
 Logged By: CDurand

Location ID: IT 386
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 190130.57

Long/Easting: 1277404.05

A. Water Depth

DTM Depth Sounder: ft
 DTM(Lead Line): 2.3 ft

B. Water Level Measurements

Time: 1313
 Height: 5.77 ft
 Source: RTK tide station

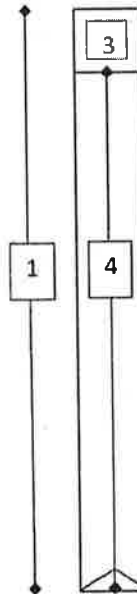
C. Mudline Elevation

+3.47 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 42 ft / (in) 106.7 cm
3. Headspace Measurement: 21 in
4. Recovery Depth: 39 ft / (in) 99.1 cm
5. Recovery Percentage: 92.9
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top ~ 6 cm light brown wet silt. Remaining core homogeneous dark brown/black silt. No visible organic matter or odor

Notes:

Gravity vibracores

Project: AOC4 - Downwash
 Date: 6/16/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: IT 387
 Attempt No.: 1
 Core Type: (Intertidal)(0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TP, CD

Field Collection Coordinates:
 Lat/Northing: 190130.00

Long/Easting: 1277635.02

A. Water Depth

DTM Depth Sounder: 2.96 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 1154
 Height: 4.90 ft
 Source: RTK tide station

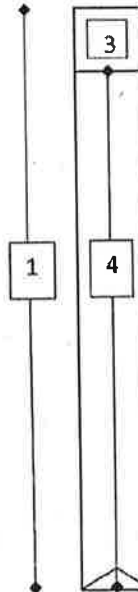
C. Mudline Elevation

+1.94 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 26 ft/in) 66 cm
3. Headspace Measurement: 35.5 in
4. Recovery Depth: 24.5 ft/in) 66.2 cm
5. Recovery Percentage: 94.2
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Uniformly brown medium sand,
At 5cm depth: a 5cm wide band of dark silty material
with splashes of red-orange sediment
No other.
Large gravel pieces at bottom of core

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/16/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: IT388 IT 388
 Attempt No.: 1
 Core Type: (Intertidal)(0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MA, TA, CD

Field Collection Coordinates:

Lat/Northing: 190057.92 Long/Easting: 1277522.62

A. Water Depth

+1.5 ft (above water)

DTM Depth Sounder: 5.16 ft

DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 1201

Height: 5.16 ft

Source: RTK tide station

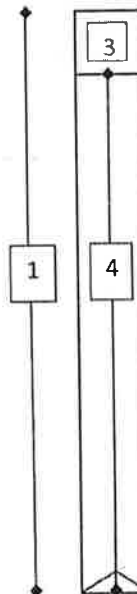
C. Mudline Elevation

+6.66 (ft MLLW) +6.66

+6.66
 Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 28.5 ft (in) 72.4 cm
3. Headspace Measurement: 31.5 in
4. Recovery Depth: 28.5 ft (in) 72.4 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

medium-coarse sand
top surface covered with vegetation
traces small weed debris
lower ~ 24cm - rust colored sediment

Notes:

Gravels vibracore

Sediment Core Collection Form

Project: AOC4 - Duwamish
Date: 6/16/20
Weather: 60%, cloudy
Logged By: CDurand

Location ID: IT 389
Attempt No.: 1
Core Type: (Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 190004.40 Long/Easting: 1277628.86

A. Water Depth

DTM Depth Sounder: CD 3.0 ft
DTM Lead Line: 3.0 ft

B. Water Level Measurements

Time: 1308
Height: 5.42 ft
Source: RTK tide station

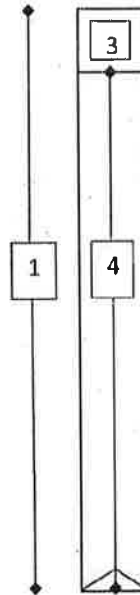
C. Mudline Elevation

+2.42 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 20 ft / 6.1 m 50.8 cm
3. Headspace Measurement: 42 in
4. Recovery Depth: 18 ft / 5.5 m 45.7 cm
5. Recovery Percentage: 90.0
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Uniform core of coarse sand. Pieces of anthropogenic material found (glass and plastic). No odor

Notes:

Gravity recovered

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/16/20
 Weather: 60s, cloudy
 Logged By: C. Durand

Location ID: IT390
 Attempt No.: 3
 Core Type: (Intertidal) (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat(Northing): 189936.67

Long(Easting): 1277560.03

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: -4.7 ft

B. Water Level Measurements

Time: 01242 1258
 Height: 6.56 ft 6.56
 Source: RTK tide station

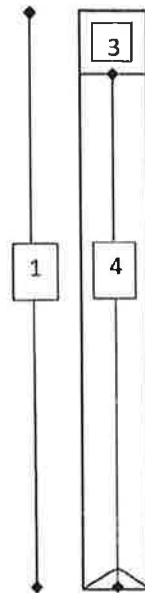
C. Mudline Elevation

+1.86 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 20 ft/in) 50.8 cm
3. Headspace Measurement: 41.5 in
4. Recovery Depth: 18.5 ft/in) 47.0 cm
5. Recovery Percentage: 92.5
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Hit refusal.
Sand and gravel.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

brown + grey, ~~the~~ medium + coarse sand.
gravel in bottom layer - sediment in fingers used due to low mass
trace glass material
rust colored water above core

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/16/20
 Weather: 60s cloudy
 Logged By: CDurand

Location ID: IT391
 Attempt No.: 3
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TP, CD

Field Collection Coordinates:

Lat/Northing: 189841.69

Long/Easting: 1277494.80

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: 3.9 ft

B. Water Level Measurements

Time: 1322
 Height: 7.35 ft
 Source: RTK tide station

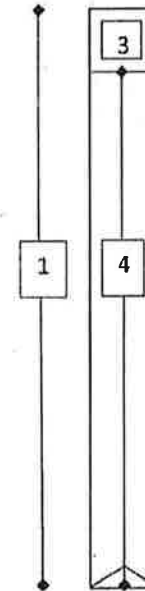
C. Mudline Elevation

+3.45 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 32 ft (in) 81.3 cm
3. Headspace Measurement: 31 in.
4. Recovery Depth: 29 ft (in) 73.7 cm
5. Recovery Percentage: 90.6
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Hard refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 3cm is silt and coarse sand followed by a 4cm layer of gravel. Next 15cm is coarse sand mixed with gravel followed by mixed silt and coarse sand. No other.

Notes:

Examine vibracore

Sediment Core Collection Form

Project: AOC4 - Downwash
 Date: 6/21/20
 Weather: 60s, cloudy
 Logged By: CDurand

Location ID: SC392
 Attempt No.: 3
 Core Type: Intertidal (0-45cm) Subtidal (0-60) or Shoaling
 Field Staff: PJ, MD, TA, CD

Field Collection Coordinates:
 Lat/Northing: 190427.89

Long/Easting: 1277671.75

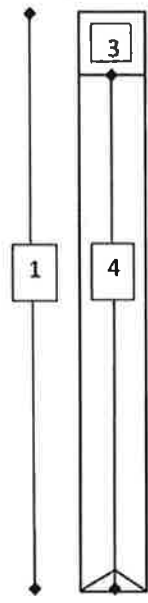
A. Water Depth
 DTM Depth Sounder: 19.00 ft
 DTM Lead Line: ft

B. Water Level Measurements
 Time: 0757
 Height: 9.87 ft
 Source: RTK tide station

C. Mudline Elevation
 - 9.13 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
- Core Tube Length: 5 feet
 - Penetration Depth: 36 ft/in, 91.4 cm
 - Headspace Measurement: 26 in
 - Recovery Depth: 34 ft/in, 86.4 cm
 - Recovery Percentage: 94.4
 - Core Accepted (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Drive to refusal

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- homogeneous medium sand, multi-color

- no odor

Notes:

Corrinity vibrometer

Sediment Core Collection Form

Project: AOC4 - Oahu
 Date: 6/22/20
 Weather: 60s, sunny
 Logged By: CDurand

Location ID: IT400
 Attempt No.: 1
 Core Type: Intertidal(0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 190432.29

Long/Easting: 1278191.13

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: 1.6 ft

B. Water Level Measurements

Time: 0920
 Height: 3.64 ft
 Source: RTK tide station

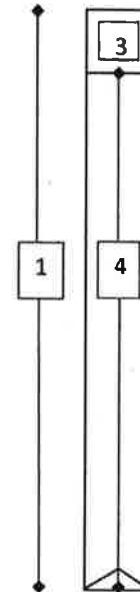
C. Mudline Elevation

+2.04 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 31 ft/in. 78.7 cm
3. Headspace Measurement: 29.5 in
4. Recovery Depth: 30.5 ft/in. 77.5 cm
5. Recovery Percentage: 98.4
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- medium grey silt, mostly homogeneous
- top 15cm - flecks of brick + orange colored sediment, trace organic matter
- no odor

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwanish
 Date: 6/23/20
 Weather: 60, sunny
 Logged By: C Durand

Location ID: IT401
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 190412.71

Long/Easting: 1278221.31

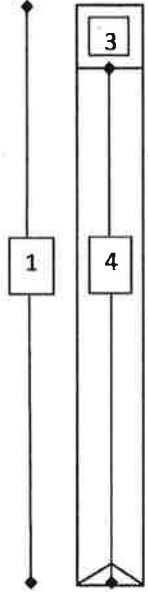
A. Water Depth
 DTM Depth Sounder: ft
 DTM Lead Line: 1.8 ft

B. Water Level Measurements
 Time: 0927
 Height: 3.14 ft
 Source: RTK tide station

C. Mudline Elevation
 +1.34 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:
1. Core Tube Length: 5 feet
 2. Penetration Depth: 35 ft/in. 88.9 cm
 3. Headspace Measurement: 25 in
 4. Recovery Depth: 35 ft/in. 88.9 cm
 5. Recovery Percentage: 100
 6. Core Accepted: (Yes) / No



- Core Sections To Process:
- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:
 Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

top 45cm - brown/gray silt
 bottom 40cm - brown silt, fine + medium multi-colored sand
 no odor

Notes:
 Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/22/20
 Weather: 60s, sunny
 Logged By: churand

Location ID: IT406
 Attempt No.: 3
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PS, MD, TB, CD

Field Collection Coordinates:
 Lat/Northing: 190366.72

Long/Easting: 1278303.73

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: 1.9 ft

B. Water Level Measurements

Time: 0946
 Height: 2.12 ft
 Source: RTK tide station

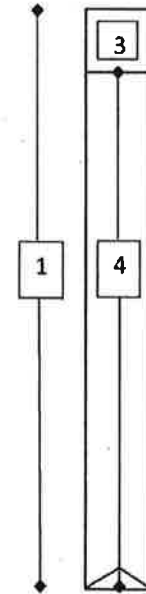
C. Mudline Elevation

+0.22 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- Core Tube Length: 5 feet
- Penetration Depth: 20 ft/in. 50.8 cm
- Headspace Measurement: 40 in
- Recovery Depth: 20 ft/in. 50.8 cm
- Recovery Percentage: 100
- Core Accepted: Yes / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Hit refusal

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 3-4 cm soft light brown silt and sand. Remainder of core is homogeneous coarse sand and silt. No odor

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/16/20
 Weather: 50s, cloudy
 Logged By: C Durand

Location ID: IT409
 Attempt No.: 1
 Core Type: (Intertidal)(0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MO, TD, CD

Field Collection Coordinates:
 Lat(Northing): 190120.33

Long(Easting): 1278133.67

A. Water Depth

DTM Depth Sounder: 2.33 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements

Time: 1036
 Height: 3.03 ft
 Source: RTK tide station

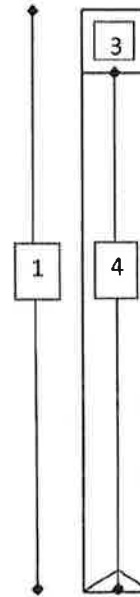
C. Mudline Elevation

+0.69 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 44 ft (in) 111.8 cm
3. Headspace Measurement: 19 in
4. Recovery Depth: 41 ft (in) 104.1 cm
5. Recovery Percentage: 93.3
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-15 cm; light brown - silty w/ some sand;
15-end idark grey
No odor throughout

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Downwash
 Date: 6/22/20
 Weather: 60s, sunny
 Logged By: CDward

Location ID: IT410
 Attempt No.: 4
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TP, CD

Field Collection Coordinates:
 Lat/Northing: 190331.05

Long/Easting: 1278358.94

A. Water Depth
 DTM Depth Sounder: _____ ft
 DTM Lead Line: 7.0 ft

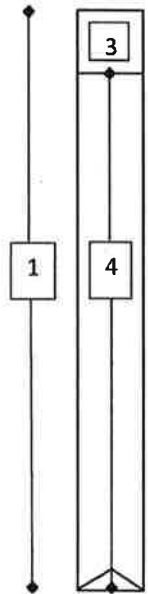
B. Water Level Measurements
 Time: 1013
 Height: 1.15 ft
 Source: RTK tide station

C. Mudline Elevation
 = 5.85 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 20 ft (in) 50.8 cm
3. Headspace Measurement: 42 in
4. Recovery Depth: 18 ft (in) 45.7 cm
5. Recovery Percentage: 90.0
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove to refusal, near some pilings
 Location selected was outside the 10 foot
 radius because of rip rap and pilings
 at the target location.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 2-3 cm wet light brown silt. Remainder of core is
 homogeneous silt and sand. No odor.

Notes:

Gravity recovered

Sediment Core Collection Form

Project: AOC4 - Downanish
 Date: 6/22/20
 Weather: B, sunny
 Logged By: CDward

Location ID: IT 411
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PT, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 190343.93

Long/Easting: 1278411.72

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: +4.0 ft

B. Water Level Measurements

Time: 1035
 Height: 0.29 ft
 Source: RTK tide station

C. Mudline Elevation

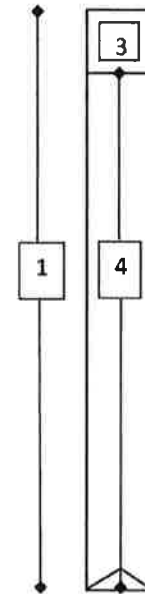
+4.29 (ft MLLW)

above water line due to CD

Core Collection Recovery Details:

1. Core Tube Length: ~~20-5 feet~~ 24 in
2. Penetration Depth: 18 ft / 10 in 45 cm
3. Headspace Measurement: 42 in
4. Recovery Depth: 18 ft / 10 in 45 cm
5. Recovery Percentage: 100
6. Core Accepted: Yes / No

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Boat could not reach target location due to large woody material and low tide. This haul collected IT 411 & surface sample 3411. Collected on shore 15 feet north towards target coordinates.

Shore Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Top 20 cm is light brown silt and sand. Remainder of core is dark brown silt and sand. No visible organic matter and no odor.

Notes:

Collected by hand w/ core tube (2ft)

Project: AOC4 - Dewamish
 Date: 6/23/20
 Weather: FOS, sunny
 Logged By: Durand

Location ID: TT415
 Attempt No.: 1
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: PJ, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 190287.52

Long/Easting: 1278469.81

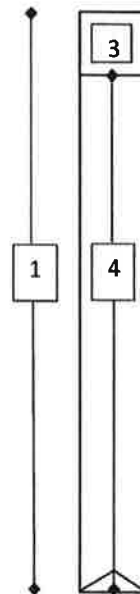
A. Water Depth - 3.0 ft
 DTM Depth Sounder: - 3.0 ft
 DTM Lead Line: +3.0 ft
 (above water line)

B. Water Level Measurements
 Time: 1016
 Height: 3.17 ft
 Source: RTK tide station

C. Mudline Elevation
 +5.17 (ft MLLW) +6.17
 CR Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 18 ft/in 45.7 cm
3. Headspace Measurement: 43.5 in
4. Recovery Depth: 16.5 ft/in 41.9 cm
5. Recovery Percentage: 16.5 cm 91.7
6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drove to refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

homogenous light brown 1-20 cm
 bottom fine sand multicolored with silt, 17 cm

Notes:

(surface sediment [0-10 cm] grab also hand collected at same time. See surf. sed. collection form)
 Gravity inbracover SS415

Sediment Core Collection Form

Project: AOC4 - Duwanish
 Date: 6/17/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: IT 416
 Attempt No.: 1
 Core Type: (Intertidal) (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MP, TD, CP

Field Collection Coordinates:
 Lat/Northing: 19 0246.98 Long/Easting: 127 8509.01

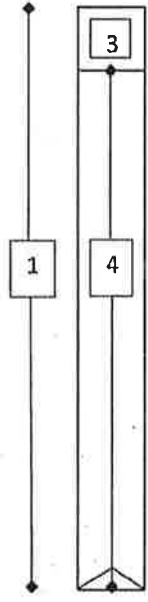
A. Water Depth
 DTM Depth Sounder: 0.5 (ft)
 DTM Lead Line: 0.5 ft

B. Water Level Measurements
 Time: 0732
 Height: 2.93 ft
 Source: RTK tide station

C. Mudline Elevation
+ 3.43 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Penetration Depth: 42.5 ft/in 108.0 cm
 3. Headspace Measurement: 17.5 in
 4. Recovery Depth: 42.5 ft/in 108.0 cm
 5. Recovery Percentage: 100
 6. Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

First 30cm is light brown silt, homogeneous. Remaining 14.6 cm is dark brown silt with some coarse sand. No odor throughout core. Bottom portion of core is dark brown silt with higher portion of coarse sand

Notes:

Gravity inductor

Project: AOC4 - Duwamish
 Date: 6/19/20
 Weather: 60s, partly cloudy
 Logged By: CDurand

Location ID: IT 417
 Attempt No.: 6
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MP, TD, CD

Field Collection Coordinates:
 Lat/Northing: 190240.31

Long/Easting: 1278528.28

A. Water Depth
 DTM Depth Sounder: _____ ft
 DTM Lead Line: +1.0 ft

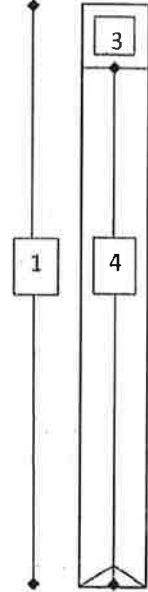
B. Water Level Measurements
 Time: 0820
 Height: 2.51 ft
 Source: RTK tide station

C. Mudline Elevation
+3.51 (ft MLLW)

1 foot below above water line

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
- Core Tube Length: None - Hand collected (spoon)
 - Penetration Depth: _____ ft/in. 29 cm
 - Headspace Measurement: N/A
 - Recovery Depth: _____ ft/in. 29 cm
 - Recovery Percentage: 100
 - Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Vibracore not used. Hand collection approved per discussion with EPA.

Hand collected down to 29 cm before hitting solid rip-rap.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

NOT APPLICABLE, SAMPLE COLLECTED BY HAND W/SPOON INTO BOWL, NOT AS A CORE. SEE PROCESSING LOG FOR SAMPLE DESCRIPTIONS.

Notes:

Collected manually using bowl & spoon to depth.

Sediment Core Collection Form

Project: AOC4 - Duwamish
Date: 6/17/20
Weather: 50% cloudy
Logged By: CDurand

Location ID: IT418
Attempt No.: 1
Core Type: (Intertidal) (0-45cm) Subtidal (0-60 or Shoaling)
Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 190224.39

Long/Easting: 1278534.00

A. Water Depth

DTM Depth Sounder: _____ ft

DTM Lead Line: 40.5 ft

(Above water line)

B. Water Level Measurements

Time: 0744

Height: 2.62 ft

Source: RTK tide station

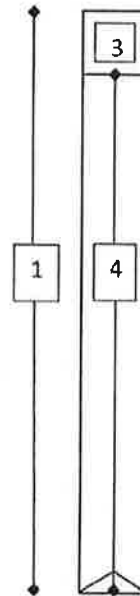
C. Mudline Elevation

+3.12 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 18 ft (in) 45.7 cm
3. Headspace Measurement: 42 in
4. Recovery Depth: 18 ft (in) 45.7 cm
5. Recovery Percentage: 100
6. Core Accepted (Yes/No) Yes



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

Short core - used material from fingers
Brown wet silt layer top 10cm, brown streaks continue to bottom. Odorless
med-coarse sand in bottom layer 30-40cm

Notes:

Exposure in browser

Project: AOC4 ^{Duwamish}

Location ID: IT419

Date: 6/17/20 6/17/20

Attempt No.:

Weather: 60s, at or partly cloudy

Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)

Logged By: C Durand

Field Staff: JS, MP, TD, CD

Field Collection Coordinates:

Lat/Northing: 190211.29

Long/Easting: 1278558.99

A. Water Depth

DTM Depth Sounder: 9.71 ft

DTM (Lead Line) 0 ft

B. Water Level Measurements

Time: 1236

Height: 4.39 ft

Source: RTK tide station

C. Mudline Elevation

+4.39 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 feet

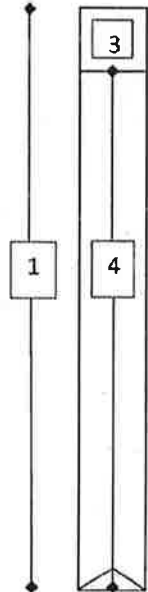
2. Penetration Depth: 45 ft/in 114.3 cm

3. Headspace Measurement: 15 in

4. Recovery Depth: 45 ft/in 114.3 cm

5. Recovery Percentage: 100

6. Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive freely to depth

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

~~Top to base light brown, wet silt. Remaining core dark brown/black~~

brown silt w/ sand wet, but 16cm more sand, less silt

~10cm deep a large piece (10cm x 5cm x 5cm) black fragment multiple additional small fragments

slight H₂S odor from core

Notes:

Gravity sampler

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/16/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: IT 4a
 Attempt No.: 1
 Core Type: (Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 189967.66

Long/Easting: 127847.91

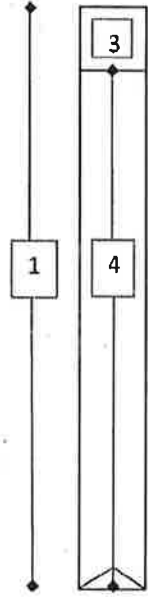
A. Water Depth
 DTM Depth Sounder: 4.43 ft
 DTM Lead Line: _____ ft

B. Water Level Measurements
 Time: 1029
 Height: 3.02 ft
 Source: RTK tide station

C. Mudline Elevation
-1.41 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Penetration Depth: 36 ft (10) 91.4 cm
 3. Headspace Measurement: 31.5 in
 4. Recovery Depth: 28.5 ft (10) 72.4 cm
 5. Recovery Percentage: 79.2
 6. Core Accepted: (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

0-30cm: Rust-red streaks through core, brown sandy silt. No immediate odor or discontinuities.

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - Dunemanish
 Date: 6/17/20
 Weather: 50s, cloudy
 Logged By: CDurand

Location ID: IT423
 Attempt No.: 2
 Core Type: (Intertidal) (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MP, JD, CD

Field Collection Coordinates:
 Lat/Northing: 190165.74

Long/Easting: 1278614.98

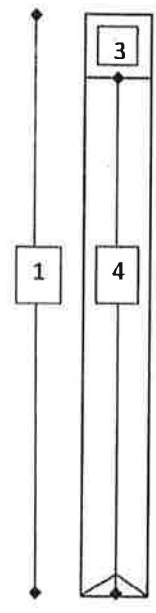
A. Water Depth
 DTM Depth Sounder: _____ ft
 DTM Lead Line: -2.5 ft

B. Water Level Measurements
 Time: 0758
 Height: 2.05 ft
 Source: RTK tide station

C. Mudline Elevation
-0.45 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Penetration Depth: 21 ft (in) 53.3 cm
 3. Headspace Measurement: 40.5 in
 4. Recovery Depth: 14.5 ft (in) 44.5 cm
 5. Recovery Percentage: 92.9
 6. Core Accepted: (Yes) No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Hit hard refusal. There is a

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

There is a tape measure sticking out of the bottom of the core sample. Top 20 cm is silt and coarse sand, remaining core is silt with greater amount of coarse sand. No odor is detected. Pieces of plastic were visible at the bottom of the core.

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwamish
 Date: 6/17/20
 Weather: 50s, cloudy
 Logged By: Carand

Location ID: IT424
 Attempt No.: 1
 Core Type: (Intertidal)(0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MD, TD, CD

Field Collection Coordinates:
 Lat/Northing: 190102.67

Long/Easting: 1278646.39

A. Water Depth

DTM Depth Sounder: _____ ft
 DTM Lead Line: +0.5 ft

B. Water Level Measurements

Time: 0805
 Height: 2.05 ft
 Source: RTK tide station

C. Mudline Elevation

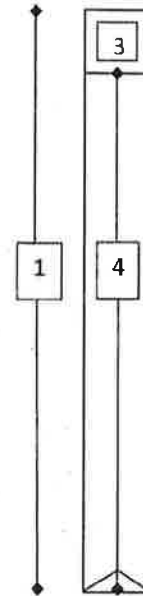
+2.55 (ft MLLW)

0.5 above water line

Core Collection Recovery Details:

1. Core Tube Length: 5 feet
2. Penetration Depth: 27.5 ft (in) 69.9 cm
3. Headspace Measurement: 32.5 in.
4. Recovery Depth: 27.5 ft (in) 69.9 cm
5. Recovery Percentage: 100
6. Core Accepted: (Yes) / No

Recovery Measurements (prior to cuts)



Core Sections To Process:

- A: _____
 B: _____
 C: _____
 Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

- 0-30 cm brown mixed w/ black silt, 30-end of core dark gray silt

Notes:

Gravity vibrator

Sediment Core Collection Form

Project: AOC4 - Duwomish
 Date: 6/17/20
 Weather: 50s, partly cloudy
 Logged By: CDurand

Location ID: IT425
 Attempt No.: 2
 Core Type: Intertidal (0-45cm) Subtidal (0-60 or Shoaling)
 Field Staff: JS, MP, TD, CD

Field Collection Coordinates:
 Lat/Northing: 190049.18

Long/Easting: 1278672.59

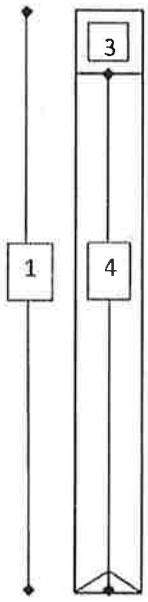
A. Water Depth
 DTM Depth Sounder: _____ ft
 DTM Lead Line: -2.2 ft

B. Water Level Measurements
 Time: 0826
 Height: 1.56 ft
 Source: RTK tide station

C. Mudline Elevation
-0.64 (ft MLLW)

Recovery Measurements (prior to cuts)

- Core Collection Recovery Details:**
1. Core Tube Length: 5 feet
 2. Penetration Depth: 24 ft/(in) 61.0 cm
 3. Headspace Measurement: 39.5 in
 4. Recovery Depth: 20.5 ft/(in) 52.1 cm
 5. Recovery Percentage: 85.4
 6. Core Accepted: Yes / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Drove freely to depth.

Shoe Description:

Core Field Observations and Description: Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

whole core multi colored sand w/ silt

Notes:

Gravity vibracore

Sediment Core Collection Form

Project: AOC4 - ~~Bay~~ Downemish

Location ID: IT426

Date: 6/17/20

Attempt No.: 1

Weather: 50s, ~~at~~ partly cloudy

Core Type: (Intertidal) (0-45cm) Subtidal (0-60 or Shoaling)

Logged By: CDurand

Field Staff: JS, MD, TD, CD

Field Collection Coordinates:

Lat/Northing: 190049.37

Long/Easting: 1278708.00

A. Water Depth

DTM Depth Sounder: _____ ft

DTM Lead Line: 0.25 ft

B. Water Level Measurements

Time: 0815

Height: 1.80 ft

Source: RTK tide station

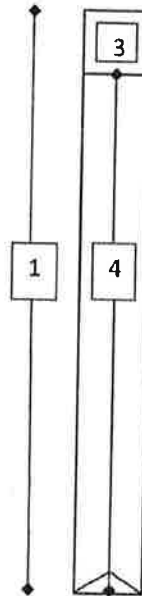
C. Mudline Elevation

+1.55 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

1. Core Tube Length: 5 Feet
2. Penetration Depth: 26.5 ft/in) 67.3 cm
3. Headspace Measurement: 35 in
4. Recovery Depth: 25 ft/in) 63.5 cm
5. Recovery Percentage: 94.3
6. Core Accepted (Yes) / No



Core Sections To Process:

A: _____

B: _____

C: _____

Z: _____

Drive Notes:

Hit refusal.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

brown, medium, coarse sand w/ gravel

large cobbles (1-3") in bottom fingers

no odor

Notes:

Gravity vibrometer

Sediment Core Collection Form

Project: AOC4 - Duwanish
Date: 6/17/20
Weather: 50s, partly cloudy
Logged By: C Durand

Location ID: IT427
Attempt No.: 1
Core Type: (Intertidal) (0-45cm) Subtidal (0-60 or Shoaling)
Field Staff: JS, MP, TD, CD

Field Collection Coordinates:

Lat/Northing: 189995.52

Long/Easting: 1278728.63

A. Water Depth

DTM Depth Sounder: 2.66 ft
DTM Lead Line: ft

B. Water Level Measurements

Time: 0833
Height: 1.40 ft
Source: RTK tide station

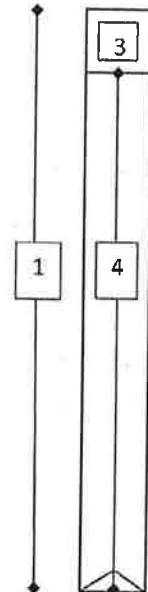
C. Mudline Elevation

-1.26 (ft MLLW)

Recovery Measurements (prior to cuts)

Core Collection Recovery Details:

- Core Tube Length: 5 feet
- Penetration Depth: 23 ft/in 58.4 cm
- Headspace Measurement: 40 in
- Recovery Depth: 20 ft/in 50.8 cm
- Recovery Percentage: 87.0
- Core Accepted: (Yes) / No



Core Sections To Process:

- A: _____
- B: _____
- C: _____
- Z: _____

Drive Notes:

Drive pretty to depth.

Shoe Description:

Core Field Observations and Description:

Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota

whole core - brown m-c sand.

Notes:

Gravity vibrator

Sediment Core Processing Form

Project: AOCY - Duwanish

Prohibition

Core Type: Intertidal (Subtidal) Shoaling

Date: 6/25/20

Recovery Depth: 56cm → 142.2

Processed By: RCINE

Compacted Depth: 145cm

Location ID: 100

Compaction-Correction Factor:

TR12

60cm → 60cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p>	<p>L-0W20--IT100</p>		<p>very dark brown</p> <p>moist</p> <p>organic debris (woody debris, shell hash, barnacles)</p> <p>no odor</p> <p>silty w/ fine sand</p>

Sediment Core Processing Form

Project: AOC4 - Duwamish

Date: 6/2/20

Processed By: BQ/RC

Location ID: 101

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: ~~4.31~~ = 131.1 cm

Compacted Depth: 105 cm

Compaction-Correction Factor: 0.801

(100 cm → 48.1 cm)

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0 cm</p> <p>48.1 cm</p>	<p>0 cm</p> <p>48.1 cm</p>	<p>LQW20-SC101</p>		<p>Silt with medium sand dark gray moist trace debris</p>

Sediment Core Processing Form

Project: Agcy - Downamish
 Date: 6/2/20 *Penetration*
 Processed By: CM/AZ
 Location ID: 102

Core Type: Intertidal (Subtidal Shoaling)
 Recovery Depth: 4.7ft = 143.3cm
 Compacted Depth: 115cm
 Compaction-Correction Factor: 0.803
60cm → 48.2cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm	LDW20-SC102		silt, some med. sand wet dark grey organic material (plant) no odor
48.2cm	48.2cm			

Sediment Core Processing Form

Project: AOCY-Dowamrsh

Date: 01/25/20

Processed By: RCINE

Location ID: 103

LOWAN 2

penetration
Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 56cm → 142.2cm

Compacted Depth: 112 cm

Compaction-Correction Factor: 0.788

60cm → 47.3 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LOW20-IT103		Dark brown color no odor wood debris silt with very fine sand moist

Sediment Core Processing Form

Project: AOCY-Dowam'sh

Date: 6/25/20

Processed By: CF/TA

Location ID: LOY

Site 2

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 28m → 76.1cm

Compacted Depth: 60cm

Compaction-Correction Factor: 0.928

60cm → 55.7cm


Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p>	<p>LOW20-SC104</p>		<p>SILT, fine sand, dark grey, worms, shell hash, wood debris (twigs, small roots), moist</p>

Sediment Core Processing Form

Project: AOCY-Dowamish
 Date: 6/2/20
 Processed By: CE/AZ
 Location ID: 105

Penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 3.5ft = 106.7cm
 Compacted Depth: 83.5cm
 Compaction-Correction Factor: 0.783
45cm → 35.2cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
0cm  35.2cm	0cm 35.2cm	LDW20-IT105		<p>Fine sand and silt, wet, dark grey, woody debris (sticks, stems, chunks of wood (1 (one) inch))</p>

Sediment Core Processing Form

Project: HOC4 - Duwanish

Core Type: Intertidal Subtidal Shoaling

Date: 6/2/20

Recovery Depth: 3.3ft - 100.6cm


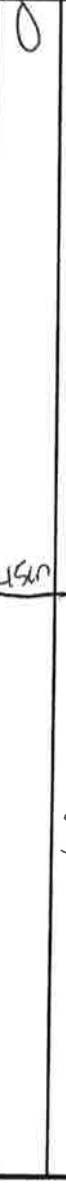
Processed By: BOIRC

Compacted Depth: 41.75 - 106.1cm

Location ID: 106

Compaction-Correction Factor:

45cm / 45cm 100%

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
0cm 	0 	L0W20-IT106		<p>Sand, silt, gravel, wet, brown silty surface layer, grey black gravel, slight odor, trace biota (wood), anthropogenic debris (glass), 1-inch pieces of gravel</p>

Sediment Core Processing Form

Project: A004 - Duwamish

Date: 6/24/2020

Processed By: AZ & LH

Location ID: 107

tier 2

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 30" → 76.2 cm

Compacted Depth: 62 cm

Compaction-Correction Factor: 0.81 CF

45 cm core → 36.5 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0 cm</p> <p>36.5 cm</p>	<p>L-DUW20-IT107</p>		<p>wet silt and medium sand, Dark brown trace anthropogenic debris (plastic?) organic matter (sticks) present. Fluffy texture small dots of biological sheen appear.</p>

Sediment Core Processing Form

Project: AOCY-Duwamish

Date: 6/25/20

Processed By: RC/NE

Location ID: 108

Per 2

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 48 in → 121.9 cm

Compacted Depth: 111.5 cm

Compaction-Correction Factor: 0.915

60 cm → 54.9 cm

penetration

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p align="center"><u>0 cm</u></p>	<p align="center"><u>LOW20-SC108</u></p>		<p>Dark brown moist silt w/ very fine sand trace woody debris biota (worms) no odor</p>
	<p align="center"><u>54.9 cm</u></p>			

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/11/20
 Processed By: _____
 Location ID: 109

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: penetration 4.2'
 Compacted Depth: recovery, 3.75
 Compaction-Correction Factor:
recovery 0.893
~~60~~ 53.5

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0cm</p>	<p>0cm</p>	<p>LOW20-SC#3, 109</p>		<p>silt w/sand, moist, dark gray, no odor trace shell hash, trace biota (worm)</p>

Sediment Core Processing Form

Project: Accy - Duwamish

Date: 6/24/2020

Processed By: PC & NE

Location ID:

110 tier 2

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 46" → 116.8 cm

Compacted Depth: 102 cm

Compaction-Correction Factor: 0.87 CF

45 cm core → 39.2 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes <small>(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</small>
0cm	39.2 cm	LDW20-1110		<ul style="list-style-type: none"> - dark olive brown - wet - small amount of anthropogenic debris (^{small} brick pieces) - silt w/ fine sand - no odor odor

Sediment Core Processing Form

Project: AOCY-Dowamrsh
 Date: 0125/20
 Processed By: CFHA
 Location ID: 111
Tier 2

penetration
 Core Type: Intertidal (Subtidal) Shoaling
 Recovery Depth: 50cm → 142.2cm
 Compacted Depth: 141cm
 Compaction-Correction Factor: 0.992
60cm → 59.5cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p>	<p>L0W20-SC111</p>		<p>fine and medium silty sand. Moist, dark gray, no odor, woolly fibers, shell hash</p>



Sediment Core Processing Form

Project: A004 - DUWAMISH

Date: 10/24/2020

Processed By: A2 & LH

Location ID: 112

112

112

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 59" → 149.9cm

Compacted Depth: 137cm

Compaction-Correction Factor: 0.91 CF

45 cm core → 41 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p> <p>41cm</p>	<p>LDW20-17112</p>		<p>Predominantly silt w/ some coarse + fine sand; Moist; dark grey; no odor</p>

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/1/20
 Processed By:
 Location ID: 113

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: Penetration
 Compacted Depth: recovery
 Compaction-Correction Factor: 0.859
 60 → 51.54cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm	LDW20-SC409-113		<p>Sand, silt, moist, dark grey w/ spots of reddish material, light odor, native multicolored CF 6-1-2020</p> <p>Sand grains @ bottom of core (grey, pink), trace biota (worms)</p>
51.54cm				

Project: AOCY-Dowcomish

penetration

Core Type: Intertidal Subtidal Shoaling

Date: 6/25/20


Recovery Depth: 56cm → 142.2cm

Processed By:

Compacted Depth: 122cm

Location ID: 114
Acr 2

Compaction-Correction Factor: 0.858
60cm → 51.5cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LOW 20-SC 114		Silt, fine sand, dark gray, moist, trace gravel, no odor
51.5cm				

Sediment Core Processing Form

Project: AOCY - Duwamish

Date: 6/25/20

Processed By: RCINE

Location ID: 115

Tr 2

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 42cm → 106.7cm

Compacted Depth: 90cm

Compaction-Correction Factor: 0.90

60cm → 54cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p>	<p>LDW20-SC115</p>		<p>Dark brown moist woody debris Biota worm no odor silt w/ very fine sand.</p>



Sediment Core Processing Form

Project: AOCY - DOWAMISH

Date: 6/24/2020

Processed By: PC & NE

Location ID: _____

116

tier 2

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 42" → 106.7 cm

Compacted Depth: 93 cm

Compaction-Correction Factor: 0.87 CF

45 cm core → 39.2 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0 cm</p> <p>39.2 cm</p>	<p>DW20-116</p>		<ul style="list-style-type: none"> - dark brown - very wet - no debris, no odor - silty w/ fine sand

Sediment Core Processing Form

Project: AOCY - Dewamish

Core Type: Intertidal Subtidal Shoaling

Date: 6/2/20

Recovery Depth: 4.3m = 131.1cm

Processed By: CMAZ

Compacted Depth: 104.5 cm

Location ID: 17

Compaction-Correction Factor: 0.797

60cm → 47.8cm
AV

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p> <p>47.8 cm</p>	<p>LOW20-SC117</p>		<p>Silt, fine sand, moist, dark grey, no odor, trace biota (worms + sticks)</p>

Sediment Core Processing Form

Project: AOCU - Duwanish
 Date: 06/25/20
 Processed By: CFVA
 Location ID: 118
nest

Penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 48m → 121.9cm
 Compacted Depth: 109cm
 Compaction-Correction Factor: 0.894
60cm → 53.6cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0m		LOW20-SC118		fine sand & silt, dark grey; no odor

53.6cm
53.6cm

Sediment Core Processing Form

Project: AOCY - Oowamish penetration Core Type: Intertidal Subtidal Shoaling
 Date: 6/25/20 Recovery Depth: 48 in → 121.9 cm
 Processed By: RCLNB Compacted Depth: 115 cm → 120 cm
 Location ID: 119 Compaction-Correction Factor: 0.984
Tier 2 60 cm → 59.0 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0 cm</p>			<p>Dark brown color Silty with fine sand grains Small pea sized gravel no odor</p>

11:34



Sediment Core Processing Form

Project: ADCY - Downwash

Date: 6/24/2020

Processed By: AZ + LH

Location ID: 120

Here

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 45" → 114.3cm

Compacted Depth: 99cm

Compaction-Correction Factor: 0.87cf

45cm core → 39.2cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p> <p>39.2cm</p>	<p>ADW20-1120</p>		<p>Dark grey-brown silt with Fine-medium sand, wet.</p> <p>Organic material present (wood fibers, sticks)</p> <p>trace shell hash</p> <p>No odor</p>

Sediment Core Processing Form

Project: AOC4 - Ouwamish
 Date: 01/21/20
 Processed By: BQIRC
 Location ID: 121

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 3.09 = 91.4cm
 Compacted Depth: 83.5cm
 Compaction-Correction Factor: 0.914
60cm = 54.8cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm 	0cm 54.5 cm	LOWA0-SC121		Small amount of yellow brown streaks, mostly dark gray silt of fine sand, and trace shell & biota slight odor

Sediment Core Processing Form

Project: AOCY - Duwamish

penetration

Core Type: Intertidal Subtidal Shoaling

Date: 6/25/20

Recovery Depth: 45m → 114.3cm

Processed By: RCLTA

Compacted Depth: 94.0cm

Location ID: 122
Tier 2

Compaction-Correction Factor: 0.822
60cm → 49.3cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p>	<p>LPW20-SC122</p>		<p>Top 20 cm - dark olive grey/brown organic debris (wood) RC wet</p> <p>very dark brown wet trace woody debris no odor silt w/ very fine sand</p>

Sediment Core Processing Form

Project: AOC4-Dowannish
 Date: 6/2/20
 Processed By: CM/AZ
 Location ID: 123
 (Field Duplicate) ✓

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: ~~4.9m~~ 5.18m - 137.2 cm
 Compacted Depth: 118.5 cm
 Compaction-Correction Factor: 0.864
 60cm → 51.8cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm			Wet, dark grey slight odor Shell hash, silt, some fine sand
51.8 cm	51.8 cm	LOW20-SC123		

Sediment Core Processing Form

Project: AOC4-Dowamish

penetration

Core Type: Intertidal (Subtidal) Shoaling

Date: 6/2/20

Recovery Depth: 4.7 ft = 143.3 cm


Processed By: BQ/RC

Compacted Depth: 132.5 cm

Location ID: 125

Compaction-Correction Factor: 0.925

60 cm → 55.5 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm 	0cm	LOW20-SC125		<p>silt with very fine sand</p> <p>Dark grey to black with some light brown streaks</p> <p>moist</p> <p>slight odor</p>

Sediment Core Processing Form

Project: AOC4-Duwamish

Date: 01/25/20

Processed By: PCINE

Location ID: 126

penetration

Core Type: Intertidal (Subtidal) Shoaling

Recovery Depth: 58 → 147.3

Compacted Depth: 143

Compaction-Correction Factor: 0.971

60cm → 58.3cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	0cm	LQW20-SC126		<p>dark brown</p> <p>moist</p> <p>silt w/ fine sand</p> <p>trace small roots (1/2-1")</p> <p>no odor</p>

Sediment Core Processing Form

Project: AOC4-Duwamish

Date: 6/2/20

Processed By:

Location ID: 127

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 4ft = 121.9cm core

Compacted Depth: 0cm NA due to refusal

Compaction-Correction Factor: NA

45cm → 45cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p> <p>45cm</p>	<p>LDW20-IT127</p>		<p>silt, fine-med. sand, dark brown light brown soupy layer at surface, coarse dry sandy bottom w/ pieces of brick wood debris prevalent mild odor</p>

Sediment Core Processing Form

Project: AOCY - Duwanish

Date: 6/24/2020

Processed By: AZ & LH

Location ID:

12B

herz

 Penetration
 Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 74" → 86.4 cm

Compacted Depth: 74 cm

Compaction-Correction Factor: 0.86 CF

60 cm core → 51.6 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0.2 m	51.6 cm	LDW20 - SC12B		soft w/ some coarse & fine sand; moist; dark grey; no odor

Sediment Core Processing Form

Project: AOCY - Duwamish

Date: 6/25/20

Processed By: CEHA

Location ID: SC129

Tier 2

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 48m → 21.9cm

Compacted Depth: 107.5cm

Compaction-Correction Factor: 0.882

60cm → 52.9cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>21.9cm</p>	<p>60cm - SC129</p>		<p>fine silt sand, wet, dark gray, no odor plant matter present</p>

Sediment Core Processing Form

Project: AOC4-Duwamish

penetration

Core Type: Intertidal Subtidal Shoaling

Date: 6/2/20

Recovery Depth: 44 = 121.9cm

Processed By: _____

Compacted Depth: 96.0cm

Location ID: 130

Compaction-Correction Factor: 0.747

60cm → 44.8cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0cm</p> <p>44.8 cm</p>	<p>0cm</p> <p>44.8 cm</p>	<p>LDW20-SC130</p>		<p><i>silty of medium</i></p> <p><i>dark grey</i></p> <p><i>very moist</i></p> <p><i>earthy</i></p>



Sediment Core Processing Form

Project: A004 - Duwanish

Date: 6/24/2020

Processed By: AZ & LH

Location ID: 131

herz

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 41" → 104.1cm
 Compacted Depth: 81cm
 Compaction-Correction Factor: 0.78 CF
60cm core → 46.8cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes <small>(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</small>
0cm				<p>Silt, fine sand. Dark brown. Moist. Shell hash prevalent, ~2% by vol. biota (worms, clam, barnacles) Anthropogenic debris (shards of ceramic tile) No odor</p>
46.8cm		L-DW20-SC131		

14:07



Sediment Core Processing Form

Project: ADCY - Duwamish

Date: 6/24/2020

Processed By: RC & NE

Location ID: _____

132

tier 2

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 46" → 116.8 cm

Compacted Depth: 96 cm

Compaction-Correction Factor: 0.82 CF

60 cm core → 49.2 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0 cm</u>	<u>SC 10020-SC132</u>		<p>Silt w/ fine sand very dark brown/grey moist shell hash no odor</p>

Sediment Core Processing Form

Project: AOCY-Dowamish

Date: 6/3/20

Processed By: BAIRC

Location ID: 133

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 2.8 ft → 85.3 cm

Compacted Depth: 69 cm

Compaction-Correction Factor: 0.801 *0.810*

45 cm → 36.5 cm
AD

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	0 cm			silt with medium to coarse sand Dark brown Slightly moist some debris Odor none
36.5 cm	36.5 cm	LOW20-IT133		



Sediment Core Processing Form

Project: ADCY - Duwamish
 Date: 6/24/2020
 Processed By: PC & NE
 Location ID:
 134
 4212

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 34" → 86.4 cm
 Compacted Depth: 72.5 cm
 Compaction-Correction Factor: 0.84 cf
 60 cm core → 50.4 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0 cm	L DW20 - SC134		very dark brown wet silt with fine sand no odor trace organic matter - woody debris, mussel, seaweed

Sediment Core Processing Form

Project: AOC4
 Date: 6/3/20
 Processed By: CO/AZ
 Location ID: 135

Parabathion

Core Type: Intertidal (Subtidal) Shoaling
 Recovery Depth: 3.75ft → 114.3 cm
 Compacted Depth: 85.5 cm
 Compaction-Correction Factor: 0.748
60 cm → 44.9 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm 44.9 cm	0 cm 44.9 cm	LDW20-SC135		Silt, wet. Dark grey trace biota (worm) trace shell hash moderate odor

Sediment Core Processing Form

Project: 1004 - Duwamish
 Date: 6/24/2020
 Processed By: PC & NE
 Location ID:
136
tier 2

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 33" → 83.8 cm
 Compacted Depth: 67.5 cm
 Compaction-Correction Factor: 0.81 CF
60cm core → 48.6 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes <small>(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</small>
	0 cm	LDW20-5136		very dark brown wet no odor trace organic debris (shell, twig) 1 large cobble (4") silt w/ very fine sand
	48.6 cm			



Sediment Core Processing Form

Project: ADC 4 - Duwanish

Date: 6/24/2020

Processed By: AZ & LH

Location ID:
137
+1122

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 48" → 121.9 cm

Compacted Depth: 110 cm

Compaction-Correction Factor: 0.90 CF

45 cm core → 40.5 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	0cm			<p>Light brown silt with fine - coarse sand</p> <p>NO odor.</p> <p>trace organic fibers</p> <p>wet.</p>
	40.5 cm	LDW20-IT137		

Sediment Core Processing Form

Project: AOC4-Duwamish

Core Type: Intertidal Subtidal Shoaling

Date: 6/25/20

Recovery Depth: 48m → 121.9cm

Processed By: CF/TA

Compacted Depth: 107cm

Location ID: 138

Compaction-Correction Factor: 0.878

TREZ

60cm → 52.68cm (52.7cm)

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	0cm	LDW20-SC138		<p>SILT, coarse sand, dark gray, moist, woody debris (1 to 4 inch pieces), clam shell, shell hash, no odor.</p>

Core, a core labeled 130 rather than 135 ✓

Sediment Core Processing Form

Project: AOCY-Duwamish

Date: 6/3/20

Processed By: BQ/RC

Location ID: 139

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 2.4 ft = 73.2 cm

Compacted Depth: 67.5 cm

Compaction-Correction Factor: 0.922

45 cm → 41.5 cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0 cm</p> <p>41.5 cm</p>	<p>0 cm</p> <p>41.5 cm</p>	<p>LOW20-IT139</p>		<p>dry, crumbly black brown color shards of glass/plastic slight odor</p> <hr/> <p>fine/medium sand</p>

Sediment Core Processing Form

Project: AOC4-Duwamish

Date: 01/31/20

Processed By: COLAZ

Location ID: 140

Parakabin

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 4.75 ft → 144.8 cm

Compacted Depth: 122 cm

Compaction-Correction Factor: 0.843

60 cm → 50.6 cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
0 cm	0 cm	LOW20-SC140		<p>core: dry sand under olive/grey muck trace shell hash, trace organic debris (stick) silty, medium sand. Dark grey, wet slight sulfur odor H₂S</p>
50.6 cm	50.6 cm	LOW20-SC140		



Sediment Core Processing Form

Project: ADCY - Duwamish

Date: 6/24/2020

Processed By: AZ & LH

Location ID:

141
ker 2

penetration
Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 50" → 127cm

Compacted Depth: 109cm

Compaction-Correction Factor: 0.46 CF

60cm core → 51.6cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LDW20 - SC141		silt w/ some coarse + fine sand; dark grey; moist; no odor

Sediment Core Processing Form

Project: AOC 4 - Duwanish

Date: 6/3/20

Processed By: COLAB

Location ID: 142

Protraction

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 2.754 → 83.8

Compacted Depth: 63cm

Compaction-Correction Factor: 0.752

60 cm → 45.1 cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0 cm</p> <p>45.1 cm</p>	<p>0 cm</p> <p>45.1 cm</p>	<p>LOW20-SC142</p>		<p>silty/sand dark gray moist, trace H₂S odor trace shell hash, woody/organic debris trace gravel</p>

Sediment Core Processing Form

Project: AOC4 - Duwamish

Date: 0125120

Processed By: RCINE

Location ID: 143
Tier 2

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 23in → 58.4cm

Compacted Depth: 50cm

Compaction-Correction Factor: 0.96
45cm → 43.2cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p> <p>43.2</p>	<p>LOW20-IT143</p>		<ul style="list-style-type: none"> - dark brown - barely moist, crumbly - fine sand w/ some silt - medium sized woody debris (2-4") - pebbles, shell hash - biota (worm) - no odor - anthropogenic debris (shards of plastic + glass)

Sediment Core Processing Form

Project: AOC4-Dowamish

Date: 6/3/20

Processed By: COLAZ

Location ID: SCN 144

Protection

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: ~~4.75 ft~~ → 144.8 cm

Compacted Depth: 141 cm

Compaction-Correction Factor: 0.974

60 cm → 58.4 cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0cm</p> <p>58.4 cm</p>	<p>0cm</p>	<p>LOW20-SC144</p>		<p>Silt w/ fine sand, dark gray moderate H₂S odor, trace shell hash, trace organic debris.</p>

Sediment Core Processing Form

Project: ACY - Downomish

Date: 6/24/2020

Processed By: AZ & LH

Location ID: _____

145

herz

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 41" → 104.1 cm

Compacted Depth: 37.5

Compaction-Correction Factor: 0.84 CF

45 cm core → 37.8 cm (CF)

Penetration

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p> <p><u>37.8 cm</u></p>	<p><u>LDW20-IT145</u></p>		<p><u>Predominantly silt w/ some fine + co coarse sand; moist; dark grey; no odor</u></p>

Sediment Core Processing Form

Project: AOCY-Dowamish

Date: 6/3/20

Processed By: BQ/RC

Location ID: 146

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 1.7 ft → 51.8 cm

Compacted Depth: 42.5 cm

Compaction-Correction Factor: 0.820

45 → 36.9 cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0 cm</p> <p>36.9 cm</p>	<p>0 cm</p> <p>36.9 cm</p>	<p>LOW20-IT146</p>		<p><i>ba</i> odor none (odor) silty with medium sand, some coarse sand Brown A lot of debris (broken glass, metal,) large gravel 2-3" low mass some jars filled only 1/2 way</p>

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 0125120
 Processed By: CEITA
 Location ID: 147
Tier 2

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 44m → 111.8cm
 Compacted Depth: 99cm
 Compaction-Correction Factor: 0.886
45cm → 39.9cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p align="center">0cm</p>	<p align="center">L0W20-JT147</p>		<p align="center">Fine silty sand, moist, dark brown Shell hash, one small rocks,</p>

Sediment Core Processing Form

Project: AOC4 - Duwanish

Date: 6/18/20

Processed By: COLAZ

Location ID: 148

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 60 in → 160.0 cm

Compacted Depth: 148.5 cm

Compaction-Correction Factor: 0.93

A 13.48.8 → 45.34 cm
 C 60.0 → 55.8 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-12 ft	0 cm	LOW20-SC148A		Silt, med. - coarse sand, wet, Dark gray-black. Shell hash, trace woody debris Gravel present. No odor.
-13.5 ft	45.4 cm	LOW20-SC148B		Silt, m-c sand, moist dark gray/black ^{no opt c} trace gravel trace shell hash; slight odor (H2S)
-15 ft	90.8 cm	LOW20-SC148C		Silt, m-c sand, trace gravel, dark gray/black shell hash, moderate H2S odor trace organic debris
-17 ft	146.6 cm			woody debris @ end of core strong sulfide odor

A
0-45.4 cm

B
45.4-90.8 cm

C
90.8-146.6 cm

NO Z

Sediment Core Processing Form

Project: AOC4-Duwamish

penetration

Core Type: Intertidal Subtidal Shoaling

Date: 6/25/20

Recovery Depth: 30m → 76.2cm

Processed By: CF/A

Compacted Depth: 64.8cm

Location ID: 199

Compaction-Correction Factor: 0.85

Tier 2

60cm → 51cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	0cm	L0W20-SC149		<p>Coarse sand silt gravel, moist, slight purple nodules trace woody debris, shell hash, 2.5 inch clam, and 1.5 inch clam</p>

Sediment Core Processing Form

Project: AOCY-Duwamish

Date: 6/3/20

Processed By: BQ/RC

Location ID: SC150

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 3.3 ft → 100.6 cm

Compacted Depth: 91.5 cm

Compaction-Correction Factor: 0.81

60 cm → 48.6 cm

Reduction

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p>	<p>LOW20-SC150</p>		<p>dark grey/black wet moist silt w/ coarse sand</p> <hr/> <p>Shell debris, ~3" pieces of wood</p>

Sediment Core Processing Form

Project: AOC4-DUNHAMISH
 Date: 6/3/20
 Processed By: COLAZ
 Location ID: 151

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 2.9 ft = 88.4 cm
 Compacted Depth: 65.5 cm
 Compaction-Correction Factor: 0.741
 45 cm \rightarrow 33.3 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	0 cm			AZ 6/3
33.3 cm	33.3 cm	LOW20-IT15		<p>coarse sand w/ silt, ^{grey} brown-olive color air void present in core; Dry sand, wet silt on top trace anthropogenic debris trace organic (sticks) silt w/ red-coarse sand</p>

Sediment Core Processing Form

Project: AOCY-Duwemish

Date: 6/25/20

Processed By: RCWE

Location ID: 152

7112

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 18.5m → 47.0cm

Compacted Depth: 46.5cm

Compaction-Correction Factor: 0.989

45cm → 44.5cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	0cm	LDW20-IT152		<p>Color → Dark Brown</p> <p>WET</p> <p>No Odor</p> <p>Slit with medium sand</p> <p>Woody debris</p> <p>cobble</p> <p>Glass</p> <p>Gravel</p>

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/26/20
 Processed By: RCITAINÉ
 Location ID: 153
 Tier 2
 750cm Shoal material

Production

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 64m → 110.6cm
 Compacted Depth: 156cm
 Compaction-Correction Factor: 0.959
 Sheal A - 75.0cm → 71.9cm
 B - 60.0cm → 57.5cm
 Z - 30.0cm → 28.8cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
125cm	0cm	LDW20-SC153A		Very dark brown Slight H ₂ S odor Some woody debris Slitty with fine sand grains (B) _{pc}
150cm	71.9cm	LDW20-SC153B		
170cm	129.4cm	LDW20-SC153Z		Very dark brown, slight H ₂ S odor slitty fine sand with small shell grain
180cm	156cm			↳ Z layer ~3.8cm shorter of 28.8cm sample still collected per call w/ Susie McGroddy

A
0-71.9cm

B
71.9cm-
129.4cm

Z
129.4cm
+ 5.0cm
AV

Sediment Core Processing Form

Project: AOC4-Dowamish

Date: 6/4/20

Processed By: COLAZ

Location ID: 154

Core Type: Intertidal Subtidal Shoaling

Recovery-Depth: 60cm → 152.4cm

Compacted Depth: 140.5cm

Compaction-Correction Factor: 0.922

60cm → 55.3cm

Penetration

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm	LDW20-SC154		Silt, some fine sand, Dark olive grey, no odor, wet. Biota (large worms) trace shell hash.
55.3cm	55.3cm			

Sediment Core Processing Form

Project: AOC4 - Ouwamish
 Date: 6/8/20
 Processed By: Bo:rc
 Location ID: 155

penetration

Core Type: Intertidal Subtidal (Shoaling)
 Recovery Depth: 72in → 182.9cm
 Compacted Depth: 137cm
 Compaction-Correction Factor: 0.749
 A 48.8cm → 36.6cm
 B 60 → 44.9cm
 Z 30 → 22.5cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-13.4 ft -13.4 ft A	0cm 36.6 cm	LOW20-SCISSA		dark grey/black silty w/ veg fine sand trace shell material moist/gloopy slight odor
-15 ft	36.6 cm	LOW20-SCISSB		Dark Grey-black. silt, Fine sand. wet. No odor trace shellhash, trace organic debris (plants)
-17 ft	81.5 cm 91.5 cm	LOW20-SCISSC		Dark grey to black ; silty fine sand slight odor moist NO debris
-18 ft	104 cm	LOW20-SCISSD		

A
0-36.6 cm

B
36.6-81.5 cm

Z
81.5-104 cm

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/3/20
 Processed By: COLAZ
 Location ID: 156

Penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 3.6ft → 109.7cm
 Compacted Depth: 86cm
 Compaction-Correction Factor: 0.784
 60 → 47.0cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0	LOW20-5C156		Silt with fine sand. dark grey slight odor (H ₂ S) shell hash, organic matter (stick, worms, coronulas)
47cm	47cm			

Sediment Core Processing Form

Project: ADCL-Duwamish
 Date: 6/25/20
 Processed By: AE/NE/RC
 Location ID: 157
Tier 2
Shore 25.9cm

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 56cm → 142.2cm
 Compacted Depth: 130cm
 Compaction-Correction Factor: 0.914
A - 25.9cm + 60cm = 85.9cm → 78.5cm
Z - 30cm → 27.4cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm		<u>AW20-SC157A</u>		<u>Vert dark brown, silt with fine sand</u> <u>very strong H₂S odor, moist, small clam shell</u> <u>woody debris, shell hash, moist</u>
78.5cm	78.5cm	<u>AW20-SC157B</u>		<u>Very dark brown</u> <u>strong H₂S odor</u> <u>Moist</u> <u>woody debris</u>
105.9cm	105.9cm			

A
0-78.5cm

Z
78.5cm -
105.9cm

Sediment Core Processing Form

Project: AOC4-Duwamish

Core Type: Intertidal Subtidal Shoaling

Date: 6/4/20

Recovery Depth: 4.267 → 128.00m

Processed By: COLAZA

Compacted Depth: 126.0

Location ID: 158

Compaction-Correction Factor: 0.984

60 → 59.1cm

Penetration

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0cm</p>	<p>0cm</p>	<p>LDW20-SC158</p>		<p>Silt, some fine sand. wet, dark olive grey moderate odor (H₂S) trace organic debris (roots, sticks)</p>

Sediment Core Processing Form

Project: FOC4-Duwamish
 Date: 6/4/20
 Processed By: COLAF
 Location ID: 159

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60" → 152.4cm
 Compacted Depth: 159cm → 116cm
 Compaction-Correction Factor: 0.76
60 → 76 → 45.7cm
AV

Sample Description and Notes

(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)

Recovery Depth	Collection Depth	Sample ID	Other
0cm	0cm		
45.7cm	45.7cm	LDW20-SC159	

silt, fine sand, dark olive gray. wet
 slight odor (sulfur)
 trace organics (plant matter)
 trace shell hash

Sediment Core Processing Form

Project: AOC4-Duwamish

Core Type: Intertidal Subtidal Shoaling

Date: 6/15/20

Recovery Depth: 102in → 259.1cm

Processed By:

Compacted Depth: 256cm

Location ID: 160

Compaction-Correction Factor: 0.988

122.5cm Shoal material

penetration
Shoal? A/B → 61.25cm → 60.5cm
C → 60cm → 59.3cm
Z → 30cm → 29.6cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
109.4 ft	0cm	LOW20-SC160A		Silt, coarse sand, no odor, some woody material, wet sediment
13 ft	60.5cm 60.5cm	LOW20-SC160B		Silt w/ some fine sand; no odor; dark grey; moist.
15 ft	121cm 121cm	LOW20-SC160C		Dark brown-grey, silt+fine sand, moist, trace organic material (wood, sticks) No odor
17 ft	180.3cm 180.3cm	LOW20-SC160Z		Dark grey, silt, coarse sand, moist, wood fibers, moderate sulfide odor
18 ft	209.9cm			

A
0-60.5cm

B
60.5cm-121cm

C
121cm-180.3cm

Z
180.3cm-209.9cm

Sediment Core Processing Form

Project: ADP4 - Downamish

Date: 6/4/2020

Processed By: CO. / A.Z.

Location ID: 161

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 38" = 96.5 cm

Compacted Depth: 83.5 cm

Compaction-Correction Factor:

0.87 CF

60 cm = 52.2 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0 cm</p>	<p>0 cm</p>	<p>LDW202-SC161</p>		<p>Park grey. silt, some fine med. sand trace odor. wet.</p>

Sediment Core Processing Form

Project: AOC4-Dowdennish
 Date: 6/3/20
 Processed By: BQ/AC
 Location ID: 162

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 3.25 ft → 99.10 m

Compacted Depth: 73 cm

Compaction-Correction Factor: 0.784 → 0.737
60 cm → 47.0442 m
AV

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0 cm</p> <p>44.2 cm</p>	<p>LOW20-SC162</p>		<p>silty with fine sand wet very dark gray to black significant organic matter (shells, wood pieces) moderate odor (earthy)</p>

Sediment Core Processing Form

Project: AOCY-Duwamish

Core Type: Intertidal Subtidal Shoaling

Date: 6/26/20

Recovery Depth: 90m → 228.6cm

Processed By: TATRCINE

Compacted Depth: 224.5cm

Location ID: 163

Compaction-Correction Factor: 0.982

Tier 2
80.5 cm Sheel natural

Shoal penetration
A - 80.5cm → 79.1cm
B - 60cm → 58.9cm
Z - 30cm → 29.5cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
12.4m		LDW20-SC163A		Very dark brown, wet, trace woody debris, silt w/ very fine sand, no odor
15m		LDW20-SC163B		Very dark brown, fine silty sand, slight H ₂ S odor slightly moist
17.5m		LDW20-SC163Z		Very dark brown, fine silty sand, slight H ₂ S odor slightly moist

A
0-79.1cm

B
79.1cm-138cm

Z
138cm-167.5cm

Sediment Core Processing Form

Project: ABC4 - Downwash

Date: 6/24/2020

Processed By: (C.O./A.Z.)

Location ID: 164 (TIER 2)

para to para

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 42", 106.48 cm

Compacted Depth: 89 cm

Compaction-Correction Factor:

0.83 CF
60 cm = 49.8 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0 cm</p> <p>49.8 cm</p>	<p>0 cm</p> <p>49.8 cm</p>	<p>LDW20-SC164</p>		<p>Silt w/ sand, ^{as 6/20} moist moist, dark olive gray slight H₂S odor</p>

Sediment Core Processing Form

Project: AOC4 - Ouwamish

Date: 6/4/2020

Processed By: C.O./A.Z.

Location ID: 165 (Tier 2)

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 5.0m, 152.4cm

Compacted Depth: 136.5cm

Compaction-Correction Factor:

CF = 0.84, 0.90

60cm = 54cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
<p>0cm 54cm</p>	<p>0cm 54cm</p>	<p>L-DW20-SC165</p>		<p>silt. grey-black, wet organic material (herbaceous) trace odor (sulfur)</p>

Sediment Core Processing Form

Project: AOCY - Downwash
 Date: 01/31/20
 Processed By: AZ, C.O.
 Location ID: 1600

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 89" → 226.1 cm

Compacted Depth: 194.5 cm

Compaction-Correction Factor: 0.86

Strat = 4.6' → 140.6 cm (70.3 for 10 B) = 60.5 (CF)

C = 60 → 51.6 cm (CF)

Z = 30 → 25.8 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)	
-10.39 ft	0 cm	L0W20-SC160A		Silt, fine sand, dark grey/black, wet, trace organic debris, no odor	0 - 60.5 cm A
-12.69 ft	60.5 cm	L0W20-SC160B		Silt, fine sand, Dark olive-grey, Moist. Trace odor. Trace shell hash, Organic debris (plant matter roots)	60.5 - 121 cm B
-15 ft	121 cm	L0W20-SC160C		dark grey/black slightly moist trace organic debris (twigs) trace odor silt w/ very fine sand	121 - 172.6 cm C
-17 ft	172.6 cm	L0W20-SC160E		None ^{ba} dark grey/very low moisture slight odor fine silt	172.6 - 194.5 cm E
-18 ft	194.5 cm	L0W20-SC160			

Sediment Core Processing Form

Project: AOCY - Duwamish
 Date: 6/4/2020
 Processed By: A.V./R.C.
 Location ID: 167

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 48" / 121.9 cm
 Compacted Depth: 102 cm
 Compaction-Correction Factor: 0.837
 0.0 → 50.2 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0 cm	LDUW20 - SC167		<p>silty w/ medium to coarse sand wet very dark gray odor none</p>

Sediment Core Processing Form

Project: AOCY-Dowamish

Date: 6/4/2020

Processed By: R.C./A.V.

Location ID: 16B

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 60", 152.4 cm

Compacted Depth: 128 cm

Compaction-Correction Factor:

0.84 CF
60 cm = 50.4 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0 cm</p> <p>50.4 cm</p>	<p>LDW20-SC168</p>		<p>Very wet dark grey/charcoal oily sheen silt w/ very fine sand 1 mussel shell</p>

Sediment Core Processing Form

Project: AOC4-Duwamish

Date: 6/5/20

Processed By: OCIAZ

Location ID: 169

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 60cm → 152.4cm

Compacted Depth: 145.5cm

Compaction-Correction Factor: 0.955

60cm → 57.3cm

penetration

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm			Dark olive-grey, wet, silt, fine sand trace organics (stick, plant matter) trace odor
57.3cm	57.3cm	LOW20-SC169		

Sediment Core Processing Form

Project: AOCY - Downumish

Date: 6/4/20

Processed By: RCF

Location ID: 200

Tier 2

Protein

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 38" → 96.5cm

Compacted Depth: 87cm

Compaction-Correction Factor: 0.90

45 → 40.6 cm
measurement taken after removed from tube

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0cm</p> <p>40 cm</p>	<p>0cm</p> <p>40.6 cm</p>	<p>LOW20-IT200</p>		<p>very dark grey/black</p> <p>wet</p> <p>slight odor</p> <p>silty/fine sand</p>

Sediment Core Processing Form

Project: AOC4-Dowenish
 Date: 6/25/20
 Processed By: RCINE/TA
 Location ID: 201

per Washburn

Core Type: Intertidal Subtidal (Shoaling)
 Recovery Depth: 60 m → 152.4 cm
 Compacted Depth: 126 cm
 Compaction-Correction Factor: 0.827
 Shear A → 84.4 cm → 69.8 cm
 B → 60 cm → 49.6 cm
2.7 no Shear section per 50 cm m.

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
12.225	0	L0w20-5C201A		Very dark brown no odor moist trace organic matter (woody debris) silt w/ fine sand
15.4	69.8	L0w20-5C201B		Very dark brown No odor Moist Trace organic matter (woody debris) Silt w/ fine sand
17.8	119.4			

A
0-69.8 cm

B
69.8-119.4 cm

Sediment Core Processing Form

Project: AOCY-Duwamish

Core Type: Intertidal Subtidal Shoaling

Date: 6/3/20

Recovery Depth: ~~50~~ → 152.4 cm

Processed By: BJR/C

Compacted Depth: 142 cm

Location ID: 202

Compaction-Correction Factor: 0.932

60 cm → 55.9 cm

Penetration

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	0 cm	LOW-20-SC202		silty coarse sand odor none Black slightly moist; very paste-like Two full shells
55.9 cm	55.9 cm			

Sediment Core Processing Form

Project: AOC4-Duwamish

Date: 6/3/20

Processed By:

Location ID: 203

Postulation

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: ~~4.7m~~ 143.3 cm

Compacted Depth: 127.5 cm

Compaction-Correction Factor: 0.89

60 cm → 53.4 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm 	0cm 53.4 cm	SC203		silt with medium to coarse sand Black Broken shell moderate earthy smell

Sediment Core Processing Form

Project: AOC4-Dowamish

Date: 01/15/20

Processed By:

Location ID: 204

46.0cm Shear material

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 56cm → 142.2

Compacted Depth: 106.5

Compaction-Correction Factor: 0.75

A → 46cm → 34.5cm

B → 60cm → 45.0cm


Z → 30cm → 22.5cm


Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
13.4ft	0cm	LDW20-SC204A		Sandy silt, coarse sand. Damp, clumpy. brown color. Notable sand/silt strata in core. Biota (worm), wood fibers, ~15%, shell hash
15ft	34.5cm	LDW20-SC204B		silt, med sandy silt. Damp, clumpy. Dark grey. No odor. Trace wood debris.
17ft	79.5cm	LDW20-SC204Z		[includes sediment from fingers, partial loss] silt, coarse sand. Dark brown-grey, clumpy. no odor.

A
0-34.5cm

B
34.5cm-
79.5cm

Z
79.5cm-
102cm

		<h2 style="margin: 0;">Sediment Core Processing Form</h2>	
Project: AOCY - DOWNMISH		Core Type: Intertidal Subtidal Shoaling	
Date: 6/23/2020		Recovery Depth: 54" → 137.2 cm (CF)	
Processed By: RCTA		Compacted Depth: 117cm	
Location ID:		Compaction-Correction Factor: 0.85 CF	
205 tier 2		A) 34.7 shoal → 29.5 cm (CF)	
34.7cm of shoal material		B) 60cm core → 51 cm (CF)	
- 13.86 mtlw		Z) 30cm Z → 28.5 cm (CF)	

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes <small>(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</small>
-13.86 				fine silt sand, slightly moist, no odor, shell hash and whole shells woody debris
				silt w/ fine sand, moist, very dark brown H ₂ S odor, woody debris
				Very dark brown, silt w/ fine sand, some woody debris, fine shell hash, moist

A
0 - 29.5 cm

B
29.5 - 80.5 cm

Z
80.5 cm - 106 cm

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 01/22/20
 Processed By: RCITA
 Location ID: 206
Tier 2

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 48m → 121.9cm
 Compacted Depth: 95.5cm
 Compaction-Correction Factor: 0.783
60cm → 47.0cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p>	<p>LW20-SC206</p>		<p>very dark brown/grey moist large shell hash no odor silt w/ very fine sand</p>



Sediment Core Processing Form

Project: AOC 4 - Duwanish

Date: 6/23/2020

Processed By: PC + TA

Location ID: 207 tier 2

27.1 cm of shoal material

-14.11 mllw

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 48" → 122 cm

Compacted Depth: 93 cm

Compaction-Correction Factor: 0.76 CF

+) Shoal = 27.1 cm → 20.6 cm (CF)

*) 60 cm core → 45.6 cm (CF)

z) 2 Sample 30 cm → 22.8 (CF)

Shoal homogenized w/ 60 cm core since shoal material is less than 30 cm.

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-14.11				fine silty sand, ^{very} moist, dark brown, slight H ₂ S odor, trace woody debris, shell hash, biota (small worm)
-17				very dark brown, trace woody debris and shell hash, slightly moist, silt with some fine sand, no odor

A
0 - 66.2 cm

Z
66.2 cm - 89 cm

Sediment Core Processing Form

Project: AOC4 - Rowanish

penetration

Core Type: Intertidal Subtidal Shoaling

Date: 6/8/20

Recovery Depth: 59.1m → 147.3cm

Processed By: _____

Compacted Depth: 118cm

Location ID: 204

Compaction-Correction Factor: 0.80

A 46.9cm → 37.5cm

B 60cm → 48cm

Z 30cm → 24cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
13.46	0	LOW20-SC208A		silt, sand medium size, wet. Dark grey STRONG odor (H ₂ S) trace shell hash, barnacles present. Organics (stick)
15	37.5 cm	LOW20-SC208B		dark grey/black strong H ₂ S odor moist silt w/ very fine sand
17	85.5 cm	LOW20-SC208C		Black slightly moist strong H ₂ S odor No debris
18	109.5 cm	LOW20-SC208D		silt w/ very fine sand

A
0-37.5cm

B
37.5-85.5cm

Z
85.5-109.5cm

11:27



Sediment Core Processing Form

Project: AOCY-Duwamish
Date: 6/23/2020
Processed By: AE, LH
Location ID:
 209
 tier 2

Penetration
Core Type: Intertidal Subtidal Shoaling
Recovery Depth: 100" → 152.4cm
Compacted Depth: 139 cm
Compaction-Correction Factor: 0.91
 100 cm core → 54.6 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm			
	54.6 cm	LDW20 - SC209		Dark brown/black silt with very little fine sand. Wet and loose with no visible organic matter and no odor.

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/15/20
 Processed By: AZIAE/CF/LH
 Location ID: 210
31.4 cm Shovel material

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60m → 152.4
 Compacted Depth: 143.5
 Compaction-Correction Factor: 0.942
 Shovel A → 31.4cm → 29.6cm
 B → 60cm → 56.5cm
 Z → 30cm → 28.2

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
13.0 ft	0	LAW20-SC210A		Sand (coarse), grey, wet, some black bands near wood waste, no odor
15 ft	29.6cm	LAW20-SC210B		Coarse sand, grey, moist, shell hash, no odor
17 ft	86.1cm	LAW20-SC210Z		silt, fine sand, dark grey, moist/dense, no odor
18 ft	114.3cm			coarse sand, grey, shell hash, trace wood (stick), dry, no odor

A
0-29.6cm
Av

B
29.6cm-86.1cm

Z
86.1cm-114.3cm

Sediment Core Processing Form

Project: AOC4-DUNHAMISH

Date: 10/3/20

Processed By: COLAZ

Location ID: 211

per section

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 4.75m → 144.8cm

Compacted Depth: 133.5 cm

Compaction-Correction Factor: 0.922

60cm → 55.3 cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p> <p>55.3 cm</p>	<p>LDW20-SC211</p>		<p>Wet silt, some fine sand, Dark grey trace odor, (Field dup.)</p>

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/12/20
 Processed By: COLAZIRO
 Location ID: 212
 Shoal = 29.0 cm

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60 in → 152.4 cm
 Compacted Depth: 143 cm
 Compaction-Correction Factor: 0.94
 A 29.0 + 60 → 89.0 → 83.87 cm
 Z 30 → 28.2 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
14.05 ft	0 cm	LOWAO-SCA12A		Silt w/ f-m sand, dark gray/olive wet, slight H ₂ S odor, trace shell hash biota (worms), waddy debris
17 ft	83.7 cm	LOWAO-SCA12B		Silt w/ f-m sand dark gray/olive moist, no odor, trace organic debris (sticks) & shell hash
18 ft	83.7 cm	LOWAO-SCA12Z		
	111.9 cm			

A
 0-83.87
 cm^{NU}

Z
 83.87-
 111.9
 cm



Sediment Core Processing Form

Project: APCY - Downwash
 Date: 6/23/2020
 Processed By: AERLH
 Location ID:
213 Herz
5.2 cm shoaling material
- 14.83 mllw

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 56" → 142.2 cm
 Compacted Depth: 134 cm
 Compaction-Correction Factor: 0.94 CF
 4) Shoal material 5.2 cm → 4.9 cm (CF)
 1) 60 cm core → 56.4 cm (CF)
 2) 7 sample 30 cm → 28.2 cm (CF)

Shoal (< 30cm so material included in A sample (60 cm core).

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-14.83				Dark brown/black silt and fine sand. Coarse woody debris and no odor.
-15				
-16		LDWZ0-SC213		Dark brown/black silt and fine sand. Trace coarse woody debris and slight H ₂ S odor.

*A
0 - 61.3cm
to 1m*

*Z
61.3 - 89.5cm*

Sediment Core Processing Form

Project: ADCY - Downemish

Core Type: Intertidal Subtidal Shoaling

Date: 01/4/20

Recovery Depth: 54cm 137.2cm

Processed By: COLAZ

Compacted Depth: 94cm

Location ID: 214

Compaction-Correction Factor:

no correction made due to recovery effected by unconsolidated material not due to compression 60cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm 	0cm	LDW20-SC214		Silt w/ sand, moist, dark gray, no odor trace shell hash
60cm	60cm			

Sediment Core Processing Form

Project: AOC 4 - Ouwamish

Date: 6/5/20

Processed By: BQIRC

Location ID: 215

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 18" → 45.72 cm

Compacted Depth: 44.5 cm

Compaction-Correction Factor: 0.973

45 → 43.8 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	0 cm	LOW20-IT215		<p>Silt with coarse sand & gravel</p> <p>Brown</p> <p>Significant debris (glass up to 3+ " of rocks)</p> <p>slightly moist</p> <p>odor slight</p>
43.8 cm	43.8 cm			

Sediment Core Processing Form

Project: ADCY - Downwash

Date: 6/22/20

Processed By: AETALHRC

Location ID: 216

Tier 2
92.4cm Sheath material

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 90cm → 228.6

Compacted Depth: 222cm

Compaction-Correction Factor: 0.971

Shell A/B = 46.2cm → 44.9cm

C = 60cm → 59.3cm

E = 30cm → 29.1cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm		LOW20-SCAL6A		Loose wet dark brown/black silt and fine sand. Trace shell hash and coarse organic matter. Slight H ₂ S odor.
44.9cm	44.9cm	LOW20-SCAL6B		Dark grey silt and fine sand; moist; no odor
89.8cm	89.8cm	LOW20-SCAL6C		Very dark brown/grey slightly moist trace shell hash, small silt w/ very fine sand
148.1cm	148.1cm	LOW20-SCAL6Z		VERY dark brown smell slightly moist silt/wet fine sand

A
0-44.9 cm

B
44.9cm - 89.8 cm

C
89.8cm - 148.1 cm

Z
148.1cm - 177.2 cm

119.7cm

131.5cm

154cm

177.2cm

187.2cm

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/12/20
 Processed By:
 Location ID: 217
 2.4 Shoaling
 CM

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 74.0 → 198.0 CM
 Compacted Depth: 178.5 → CM
 Compaction-Correction Factor: 0.95
 A 2.4 + 60 = 62.4 → 59.3 CM
 Z - 30 → 28.3 CM

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
15.5 ft	0 cm	LOW20-SC217A		Silt w/ fine sand, dark gray/black wet, trace shellhash, trace biota (worm) moderate H2S odor
17 ft	59.3 cm	LOW20-SC217Z		Silt w/ fine sand, dark gray/black -med wet, trace shellhash, moderate H2S odor
18 ft	87.8 cm			

A 0-59.3 CM

Z 59.3-87.8 CM

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/19/20
 Processed By: AE/RG
 Location ID: 218
Tree 2

Penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 40m → 101.6cm
 Compacted Depth: 97cm
 Compaction-Correction Factor: ~~0.896~~ 0.955
45m 40.3m 43.0cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0m</u>	<u>LW20-IT218</u>		<p>Brown coarse sand and silt with some gravel. Hard packed lumps of sand present that could be broken up with the spoon. Biota (worm) found as well as some pieces of cobble. No organic matter visible and no odor</p>

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/12/20
 Processed By:
 Location ID: 219
 Shoal 102.7cm

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 96.1m → 243.8cm
 Compacted Depth: 224cm
 Compaction-Correction Factor: 0.92
 A/B → 51.35 → 47.2cm
 C → 60 → 55.2cm
 Z → 30 → 27.6cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)	
11.63 ft	0cm	LOW20-SCA19A		Dark grey no debris no odor wet silty w/ fine sand	A 0-47.2 cm
13.35 ft	47.2cm	LOW20-SCA19B		dark grey/black slightly moist no odor no debris silt w/ some very fine sand	B 47.2-94.4 cm
15 ft	94.4cm	LOW20-SCA19C		silt w/ fine sand, dark gray/black, moist; no odor, trace organic debris (stickies)	C 94.4-149.6 cm
17 ft	149.6cm	LOW20-SCA19Z		Dark grey-black silt, some fine sand, Trace woody debris, trace shell Trace faint odor clumpy	Z 149.6-177.2 cm

Sediment Core Processing Form

Project: AOC4-Duwamish

Date: 6/12/20

Processed By: LC & AZ

Location ID: 220

Shoal - 21.9 cm

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 60 in → 152.4 cm

Compacted Depth: 137 cm

Compaction-Correction Factor: 0.90

Shoal + 60 → 81.9 → 73.7 cm

30 → 27 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
14.00 ft	0 cm	LOW20-SC220Z		Very dark grey NO odor trace shell hash; trace biota very moist silt w/ fine sand
15.00 ft				
17.00 ft	73.7 cm	LOW20-SC220Z		Very dark grey NO odor no debris; trace shell hash silt and fine sand Moist
18.00 ft	73.7 cm			
	100.7 cm	LOW20-SC220Z		

0-73.7
cm

A

Z

73.7-
100.7
cm

Sediment Core Processing Form

Project: AOCY - Downwornish
Date: 6/19/20
Processed By: _____
Location ID: 221

pergahn
Core Type: Intertidal Subtidal Shoaling
Recovery Depth: 29m → 61cm
Compacted Depth: 57cm
Compaction-Correction Factor: 0.934
45cm → 42.0cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes <small>(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</small>
	<u>0m</u>	<u>L0w20-JT221</u>		<u>Pieces of cobble mixed throughout core. Coarse sand and gravel with a little silt. One polychaete found. No visible organic matter and no odor</u>

Sediment Core Processing Form

Project: AOC4-DOWAMISH
 Date: 6/12/20
 Processed By: RC/AZ/CO
 Location ID: 222

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 86.0 → 215.4 cm

Compacted Depth: 213 cm

Compaction-Correction Factor: 0.98

Shoal 67.7 cm → 66.0 ^{AV} cm
A 60 → 58.8 ^{AV} cm
E 30 → 29.4 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	66.3 cm	LOW20-SC222A		Dark brown-gray, silt, fine sand, wet trace organic debris (stick) biota (worm)
15 ft	66.3 cm	LOW20-SC222B		Dark gray silt. ^{very} Fine sand. Moderate to strong H ₂ S odor. Moist trace woody debris (sticks, rotting wood)
17 ft	125.1 cm	LOW20-SC222Z		Dark gray silt, some fine sand. Moist No odor trace organic debris (sticks)

12.78 ft

A
0-66.3 cm

15 ft

B
66.3
~~124.8~~ ^{AV}
125.1 cm

17 ft

Z
125.1
~~124.8~~ ^{AV}
154.2 ^{AV}
5 cm

18 ft

Sediment Core Processing Form

Project: AOCY-Duwamish

Date: 6/12/20

Processed By: RELAZIBQ

Location ID: 223

Shoal 22.9 cm

para-bathym

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: ~~60.0m~~ 152.4 cm

Compacted Depth: 133.5 cm

Compaction-Correction Factor: 0.88

Atouts Shoal 82.9 → 72.6 cm

Z 30 → 26.4 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
11.25 ft	0 cm	LOW20-SC223Z LOW20-SC223A		silt w/ fine sand, dark gray/black -med wet, no odor, trace organic debris (twigs + sticks)
15 ft	72.6 cm			
17 ft	99.3 cm			silt w/ fine sand, dark gray/olive, wet slight odor, trace shell hash
18 ft				

A
0-72.6 cm

Z
72.6-99.3 cm

Sediment Core Processing Form

Project: AOC 4 - Duwamish

Date: 6/10/20

Processed By: RC/AE

Location ID: 224

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 46 in → 121.9 cm

Compacted Depth: 104 cm

Compaction-Correction Factor: 0.853

45 → 38.4 cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0 cm</p>	<p>LOW20-IT224</p>		<p>Silt, coarse sand, shell debris, trace coarse organic matter, no odor</p>

Sediment Core Processing Form

Project: AOCY - Dowamish

Date: 01/22/20

Processed By: RCVA/LH

Location ID: 225

Trer 2
05.8cm Sheat material

Distraction

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 72m → 182.9cm

Compacted Depth: 179cm

Compaction-Correction Factor: 0.979

Shoal A - 65.8cm → 64.4cm
B - 60cm → 58.7cm
Z - 30cm → 29.4cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
12.54m	0cm	L0w20-SC225A		Homogenous dark brown/black wet silt and fine sand. Twigs and other woody debris present. Little H ₂ S odor.
15.0m	64.4cm	L0w20-SC225B		Homogenous dark brown/black silt with very little fine sand. Trace organic matter and no odor.
17.6m	123.1cm	L0w20-SC225Z		Homogenous dark brown/black silt with very little fine sand. No visible organic matter and no odor. Dry consistency
18.6m	152.5cm			

A
0-64.4cm

B
64.4cm-123.1cm

Z
123.1cm-152.5cm

Sediment Core Processing Form

Project: AO CY - Ouwamish

Date: 6/19/20

Processed By: _____

Location ID: 227

7712

probation

AV

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: ~~38.1~~ 96.5 cm

Compacted Depth: 91 cm

Compaction-Correction Factor: 0.943

~~43.5~~ 42.4 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0 cm</p> <p><i>42.4 cm</i></p>	<p>LOW20-IT227</p>		<p>Dark grey-brown silt with medium sand. Shell hash present. Moist No odor. Trace organic matter (plant fibers)</p>

Sediment Core Processing Form

Project: AOC4-Duwamish *penetration*
 Date: 6/10/20
 Processed By: CFAB
 Location ID: 228

Core Type: Intertidal Subtidal Shoaling
 Recovery-Depth: 48.15 → 121.90cm
 Compacted Depth: 98cm
 Compaction-Correction Factor: 0.803
45 → 36.2cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p> <p>36.2 cm</p>	<p>LDW20-IT228</p>		<p>Brown soft surface, wet, biota (shrimp, wood), coarse grey sand moist, trace shell hash, no odor, several large pieces of gravel (1-3 inches)</p>

Sediment Core Processing Form

Project: AOCY-Dowanish
Date: 6/19/20
Processed By: AE/RC
Location ID: 229
T122

penetration

Core Type: Intertidal Subtidal Shoaling
Recovery Depth: 20in → 50.8cm
Compacted Depth: 47.5cm
Compaction-Correction Factor: 0.935
45 → 42.1cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LOW20-T1229		coarse sand, fine sand, some silt barely moist no odor dark brown

Sediment Core Processing Form

Project: AOC 4-DUNHAMISH
 Date: 6/12/20
 Processed By: BQIAZIRC
 Location ID: 230

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery-Depth: 60cm → 152.4cm
 Compacted Depth: 139cm
 Compaction-Correction Factor: 0.91
 Shal 32.3 → 29.4cm A
 60 → 54.6cm B
 30 → 27.3cm Z

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	0 cm	LOW20-SC230A		Silt w/ fine sand, dark gray/black wet, trace organic debris, no odor
29.4 cm	29.4 cm	LOW20-SC230B		Silt w/ fine sand dark gray/black moist, no odor
84 cm	84 cm	LOW20-SC230Z		Silt w/ fine sand, dark gray/black moist, moderate odor (H ₂ S), trace shell hash + organic debris (sticks)
111.3 cm	111.3 cm	LOW20-SC230		

-13.94
-15
-17
-18

A 29.4 cm
0-32.3 cm

B 29.4
32.3-84 cm

Z 84-111.3 cm

Sediment Core Processing Form

Project: A004 - Duwamish

Date: 6/19/20

Processed By:

Location ID: 231

72.5cm shell material
Tier 2

Preselection

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 84in → 213.4cm

Compacted Depth: 180.5

Compaction-Correction Factor: 0.846

Shoal A - 72.5cm → 61.3cm

B → 60cm → 50.8cm

E → 30cm → 25.4cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
126.0	0cm	L0W20-SC231A		SILT, fine sand, wet, dark grey, no odor, trace wood debris (sticks, stems) A 0-61.3 cm
151.0	61.3 cm	L0W20-SC231B		SILT, fine sand, moist, dense, slight sulfide odor, trace shell hash B 61.3-112.1
176.1	112.1 cm	L0W20-SC231Z		SILT, fine sand, moist, dense, moderate sulfide odor, dark grey shell hash Z 112.1-137.5
184.4	137.5 cm			

Sediment Core Processing Form

Project: AOCY - Downwash
 Date: 6/4/20
 Processed By: OJAZ
 Location ID: 232

Penetration

Core Type: (Intertidal) Subtidal Shoaling
 Recovery Depth: 48in → 121.9cm
 Compacted Depth: 97.5
 Compaction-Correction Factor: 0.80cm
45cm → 36cm


Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0cm</p> <p>36cm</p>	<p>0cm</p> <p>36cm</p>	<p>LDW20-IT232</p>		<p align="center">6/4/20</p> <p>silt w/ med sand ^{as} trace gravel, dark to coarse olive / gray, wet, no odor</p>

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/19/20
 Processed By: AEIRC
 Location ID: 233
 T1122

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 43m → 109.2cm
 Compacted Depth: 102.5cm
 Compaction-Correction Factor: 0.939
 45cm → 42.3

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	L0W20-IT233		Dark brown silt and sand. Large piece of cobble and coarse woody debris, Odor of H ₂ S detected
	42.3 cm			

Sediment Core Processing Form

Project: AOC 4 - Duwanish

Date: 01/19/20

Processed By: AE/AZ/RE

Location ID: 234

Tier 2
78.3cm Shoal material

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 90m → 228.6cm

Compacted Depth: 183.0cm

Compaction-Correction Factor: 0.801

Shoal A → 78.3cm → 62.7cm
B → 60cm → 48.1cm
Z → 30cm → 24.0cm

Pre-fraction

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LAW20-SC234A		Very dark brown/black moist trace small organic matter no odor silt w/ some very fine sand
	62.7cm	LAW20-SC234B		silt, very fine sand. Dark olive-grey, moist. Shell hash present. No odor.
	110.8cm	LAW20-SC234Z		Dark brown/black silt with a little fine sand. No visible organic matter. No odor

A 0-62.7 cm

B 62.7-110.8 cm

Z 110.8-134.8 cm

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 11/10/20
 Processed By: RCLAZ/AB
 Location ID: 235

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 60.75 → 152.4 cm

Compacted Depth: 117 cm

Compaction-Correction Factor: 0.768

shovel A → 48.2 → 37.0 cm
 B → 60 → 46.1 cm
 Z → 30 → 23.0 cm

-13.4 ft
 -15 ft
 -17 ft
 -18 ft

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0	LOW20-SC235A		silt & fine sand, wet, very dark brown/gray, no odor, trace small organic matter
	37.0 cm	LOW20-SC235B		Silt, fine sand, dark brown, no odor, trace organic material
	83.1 cm	LOW20-SC235Z		silt, trace sand moist, Dark grey-black, No odor trace organic debris (wooly)
	106.1 cm			

A
0-37.0 cm
 B
37.0-83.1 cm
 Z
83.1-106.1 cm

Sediment Core Processing Form

Project: ADCU - Downumish

Date: 6/4/2020

Processed By: AV/RC

Location ID: 236

Protection

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 7.94, 88.4 cm

Compacted Depth: 62 cm

Compaction-Correction Factor:

$CF = 0.70$

$45 \text{ cm} = 31.5 \text{ cm} (CF)$

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm			very wet dark grey silt / sand (m) woody debris rocks no odor.
31.5 cm	31.5 cm	LDW20-IT236		

Sediment Core Processing Form

Project: AOC 4 - Duwamish
 Date: 6/19/20
 Processed By: HEJAZI/RC
 Location ID: 237
Ther 2
94.8cm Shoal

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 90m → 228.6cm
 Compacted Depth: 201.5cm
 Compaction-Correction Factor: 0.881
 Shoal A/B → 47.4cm → 41.8cm
 C → 60cm → 52.9cm
 Z → 30cm → 26.4cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
11.59 13.5 13.5	0cm	LOW 20- SC237A		Very dark brown silt w/ some very fine sand. Moist. Trace small organic matter. No odor
13.5 13.5	136cm	LOW 20- SC237B		Dark brown/black silt and fine sand. Moist, no odor. No visible organic matter
15.1 15.1	136cm	LOW 20- SC237C		Silt, very fine sand. Dark grey. Moist. No odor. Woody debris (trace) trace shell hash. Anthropogenic debris (plastic liner)
17.1 17.1	136.5cm	LOW 20- SC237Z		SILT, fine sand, dry, dense, dark grey, trace debris (plastic bag), shell hash (trace)

A
0-41.8cm

B
41.8cm-
83.6cm

C
83.6cm
136.5

Z
136.5
162.9
hash
(trace)

Sediment Core Processing Form

Project: AOC 4-Duwamish
 Date: 6/10/20
 Processed By:
 Location ID: 238

penetrable

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 78 → 198.1 cm
 Compacted Depth: 179 cm
 Compaction-Correction Factor: 0.904
 A 53cm → 47.9 (SHOAL) cm
 B 60cm → 54.2 cm
 Z 30cm → 27.1 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-13.25 ft	47.9 - 0 cm	LOW20-SC238A		Brown surface, silt, fine sand, dark grey, no odor, plant matter (sticks), wet
-15 ft	47.9 - 102.1 cm	LOW20-SC238B		Stiff, silt, fine sand, pocket of coarse sand, moist, dark grey, coarse woody debris (1 piece) (3 inches)
-17 ft	102.1 - 129.2 cm	LOW20-SC238C		Silt, fine sand, coarse sand pocket @ bottom of interval, sticks, moist dark grey, trace odor (sulfur)
-18 ft		LOW20-SC238D		

A 0-47.9 cm

47.9 - 102.1 cm

B

Z 102.1 - 129.2 cm

Sediment Core Processing Form

Project: AOC4-Dowamish
 Date: 6/19/20
 Processed By: RZ/LAC
 Location ID: 239
 Tier 2

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 40m → 106.6cm
 Compacted Depth: 97cm
 Compaction-Correction Factor: 0.955
 45cm → 43cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LOW20-IT239		Some small cobble mixed with gravel, coarse sand, and silt. No odor or visible organic matter

Sediment Core Processing Form

Project: A004 - Downomish
 Date: 01/15/20
 Processed By: COLAZ
 Location ID: 240

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 30m → 76.2cm
 Compacted Depth: 67.5 cm
 Compaction-Correction Factor: 0.886
95 → 39.9 cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
<p>0cm</p>	<p>0cm</p>	<p>LDW20-IT240</p>		<p>Silt, sand, and gravel, dark brown, wet, no odor</p>

Sediment Core Processing Form

Project: AOCY-Duwamish

Date: 6/19/20

Processed By: AZ/AE/RC

Location ID: 241

Tier 2
65.5cm Shoal material

Production

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 72m → 82.9cm

Compacted Depth: 163.5 cm

Compaction-Correction Factor: 0.894

Shoal A → 65.5cm → 58.6cm

B → 60cm → 53.6cm

Z → 30cm → 26.8cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
12.5m	58.6cm			SILT, fine sand, moist, dark grey, trace wood debris (sticks, stems), trace odor (sulfide)
15m	53.6cm			SILT, fine sand, moist, dense, dark grey, trace odor (rubber), trace wood fibers, trace twigs
17m	112.2cm			SILT, fine sand, dark grey, no odor, dry, trace coarse sand
18.9m	139cm			

A 0-58.6cm

B 58.6cm - 112.2cm

Z 112.2cm - 139cm

Sediment Core Processing Form

Project: AOCY-Duwamish

Date: 6/19/20

Processed By: AZIAEIRC

Location ID: 242

Tier 2

87.5cm shal material

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 80m → 203.2cm

Compacted Depth: 173.5cm

Compaction-Correction Factor: 0.854

A - 87.5cm → 74.7cm

B - 60cm → 51.2cm

Z - 30cm → 25.6cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
12.13m	0	LOW20-SC42A		SILT, fine sand, dark grey, moist, no odor
15.4m	74.7 74.7	LOW20-SC42B		SILT, fine sand, dark grey, moist, no odor
17.6m	125.9 125.9	LOW20-SC42Z		SILT, fine sand, dark gray, dense, Slight petroleum odor, no sheen, trace shell wash, wood debris
18.8m	151.5			

A
0-74.7 cm

B
74.7cm - 125.9cm

Z
125.9 - 151.5 cm

Sediment Core Processing Form

Project: AOCY-Duwamish

Date: 6/4/20

Processed By: BARC

Location ID: 2431

parabolan

Core Type: Intertidal Subtidal Shoaling

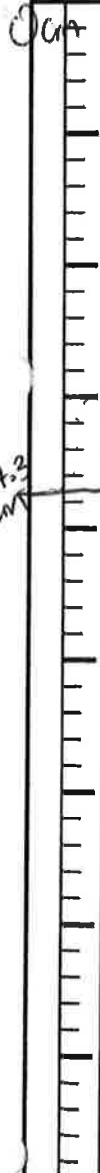
Recovery Depth: 4ft → 121.9cm

Compacted Depth: 101cm

Compaction-Correction Factor: 0.829

45cm → 37.3cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
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0cm
37.3cm
LOW20-IT2431

dark grey/black color
slightly moist
woody debris (~2")
silty w/ medium sand
slight earthy odor

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/10/20
 Processed By: CH/AZ
 Location ID: 244

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 36.147 91.4 cm
 Compacted Depth: 78 cm
 Compaction-Correction Factor: 0.553
45 → 38.4 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0 cm</p> <p>38.4 cm</p>	<p>LOW20-IT 244</p>		<p>dark grey fine sand / hard compact silt trace organic matter (stick) slightly moist no odor</p>



Sediment Core Processing Form

Project: AOCY - Duwamish
 Date: 6/11/2020
 Processed By: AE, PC, CF, AZ
 Location ID: 245
 52.1 cm shoal material
 -13.29 ml(w)

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 66" → 172.72 cm
 Compacted Depth: 148.5 cm
 Compaction-Correction Factor: 0.86
 A) Shoal 52.1 cm → 44.8 cm CF
 B) core 60 cm → 51.6 cm CF
 Z) Z 30 cm → 25.8 cm CF

Tier 2
 Tier 1
 Tier 2

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-13.29	0 cm	LOW20-SCA45A		Silt, fine sand, dark grey, wet, no odor, wood debris (fibers, stems), worm
-15.1	44.8 cm	LOW20-SCA45B		Silt, fine sand, dark grey, moist, dense, slight sulfide odor
-17.1	96.4 cm	LOW20-SCA45Z		Silt, coarse sand, dark grey, moist, dense, wood fibers
-18.1	122.2 cm			

A
 0-44.8 cm
 B
 44.8-96.4 cm
 Z
 96.4-122.2 cm

Sediment Core Processing Form

Project: AOCY-Dowamism
 Date: 6/18/20
 Processed By: _____
 Location ID: 246
Tier 2
57.3cm Sheal material

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60.1m → 152.4cm
 Compacted Depth: 108.5
 Compaction-Correction Factor: 0.712
 Shell - A - 57.3 → 40.8cm
 B - 60m → 42.7cm
 Z → 50cm → 21.4cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm	LOW20-246A		Dark olive-grey silt with fine sand. Trace organic matter (plant) trace shell hash. Biota, worm. Texture wet. Large waxy stick recovered. No odor
40.8cm	40.8cm	LOW20-246B		Dark olivegrey silt with fine sand, Moist. No odor.
83.5cm	83.5cm	LOW20-246C		Dark grey silt w/ fine sand. Moist, clumpy. Trace organic matter (sticks) trace shell hash No odor
104.9cm	104.9cm			

A
0-40.8cm

B
40.8cm-83.5cm

C
83.5cm-104.9cm

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/5/20
 Processed By: _____
 Location ID: 247

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery-Depth: 36" → 91.44
 Compacted Depth: 80
 Compaction-Correction Factor: 0.975
45 → 39.4cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p>	<p>LDW20-247IT247</p>		<p>Silt, fine-coarse sand, gravel. A few cobbles dark brown, moist. trace organics (wood) slight odor (marine, H₂S)</p>



Sediment Core Processing Form

Project: ADCY-Duwamish
 Date: 6/11/2020
 Processed By: CF & AZ
 Location ID: 24B
Tier 1

Penetration
 Core Type: (Intertidal) Subtidal Shoaling
 Recovery Depth: 32" ; 0.280m
 Compacted Depth: 52 cm
 Compaction-Correction Factor: 0.64
45cm core = 28.8cm CF

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p> <p>28.8 cm</p>	<p>LDW20-IT24B</p>		<p>Silt and fine sand, dark gray, slight odor, trace biota (worm), dense, moist, coarse sand and gravel at bottom of core (not included in sample interval)</p>

Sediment Core Processing Form

Project: AOCY-Dowomish
 Date: 6/18/20
 Processed By: _____
 Location ID: 249
7112
40.5cm Sheal material

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 56in → 142.2cm
 Compacted Depth: 103cm
 Compaction-Correction Factor: 0.724
 Sheal → A = 40.5cm → 29.3cm
 B = 60cm → 43.4cm
 Z = 30cm → 21.7cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
<u>13.67</u>	<u>0</u>	<u>LOW20-SC249A</u>		Very dark brown wet slight H ₂ S odor trace organic material (woody woody debris/leaves) silt w/ fine sand
<u>5.87</u>	<u>21.5cm</u>	<u>LOW20-SC249B</u>		Dark brown/black silt and fine sand. Slight H ₂ S odor Trace organic material (woody debris)
<u>17.17</u>	<u>72.7cm</u>	<u>LOW20-SC249Z</u>		Dark olive-grey silt with fine sand trace organic debris (stick) Mudst texture

A
0-29.3cm

B
29.3cm -
72.7cm

Z
72.7cm
91.4cm

Sediment Core Processing Form

Project: AOC 4 - Downamish
 Date: 6/11/20
 Processed By: AE/RC
 Location ID: SC250

Penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery-Depth: 72m → 132.9cm
 Compacted Depth: 138cm
 Compaction-Correction Factor: 0.755
 A 86cm → 64.9cm - Shear
 B 60cm → 45.3cm
 Z 30cm → 22.7cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-12.8 ft	0cm	LOW20-SC250A		Stiff dark grey silt and fine sand, pockets of brown silt, wet, trace wood (sticks)
-15 ft	64.9 cm	LOW20-SC250B		Stiff dark grey silt and fine sand, moist, moderate wood fibers
-17 ft	110.2 cm	LOW20-SC250Z		Stiff dark grey silt and fine sand, moist, trace wood (sticks), sulfide odor
-18 ft	132.9 cm			

A
0-64.9 cm

B
64.9 - 110.2 cm

Z
110.2 - 132.9 cm

Sediment Core Processing Form

Project: AOC 4 - Duwamish

Date: 6/4/20

Processed By: OC/AZ

Location ID: 251

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: ~~5.1m~~ → 155.4cm

Compacted Depth: 132cm

Compaction-Correction Factor: 0.85

60cm → 51cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LDW20-SC251		<p>Silt w/ fine sand, dark olive/gray, wet Slight H₂S odor (moderate odor noted during collection)</p>



Sediment Core Processing Form

Project: AD04 - Duwamish
 Date: 6/11/2020
 Processed By: RC & AE
 Location ID: 252
Tier 2

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60" / 152.4 cm
 Compacted Depth: 140.5 cm
 Compaction-Correction Factor: 0.92
45 cm core = 41.4 cm CF

Sample Description and Notes

(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)

Recovery Depth	Collection Depth	Sample ID	Other
0cm	0cm		
41.4 cm	41.4 cm	LDW20-17252	

Dark brown, silt, coarse sand, shell fragments
 no odor, coarse organic matter
 moist

7:52 Dup?



Sediment Core Processing Form

Penetration

Project: AOC 4 - Duwamish
 Date: 6/11/2020
 Processed By: _____
 Location ID: 253 & 253 FD
by ~~XXXXXX~~ Tier 1

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 24" / 60.94 cm
 Compacted Depth: 55 cm
 Compaction-Correction Factor: 0.83
45 cm core = 37.35 cm CF

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
<p>0 cm 37.35 cm</p>	<p>0 cm 37.35 cm</p>	<p>LDW20-IT253</p>		<p>dark brown silt w/ coarse sand trace coarse organic matter no odor slightly moist</p>

Sediment Core Processing Form

Project: AO4 - Downamish
 Date: 6/18/20
 Processed By: _____
 Location ID: 254
Tier 2
49.7cm Shell material

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60m - 2152.4cm
 Compacted Depth: 147.5cm
 Compaction-Correction Factor: 0.968
 Shell A → 49.7cm → 48.1cm
 B → 60cm → 58.1cm
 Z → 30cm → 29.0cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-13.31m	0cm	LDW20-254A		Wet silt and fine sand. Trace biota (worm) as well as coarse organic matter. Slight H ₂ S odor. Shell hash present
-15.11m	48.1cm	LDW20-254B		Silt and fine sand, ^{drier} sediment. Trace organic matter. No detectable H ₂ S ^{or} ^{H₂O₂}
-17.01m	106.2cm	LDW20-254Z		Relatively dry silt and fine sand. Trace organic matter with woody debris. H ₂ S odor present
-18.61m	135.2cm			

A
0-48.1cm

B
48.1-106.2cm

Z
106.2-135.2cm



Sediment Core Processing Form

Project: Accy - Duwamish
 Date: 6/11/2020
 Processed By: AE, RC, CF, AZ
 Location ID: 255
88.7 cm shoal material
- 12.0 mllw

Penetration
 Core Type: Intertidal Subtidal (Shoaling)
 Recovery Depth: 108" → 274.32 cm
 Compacted Depth: 251 cm
 Compaction-Correction Factor: 0.91
 A) Shoal material 88.7 cm → 80.7 cm
 B) 60 cm core → 54.6 cm CF
 Z) 30 cm Z → 27.3 cm CF

Tier 2
 Tier 1
 Tier 2

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-12.9'	0 cm	LDW20-80.7-SC255A		Silt, fine sand, wet, dark gray, sulfide odor, plant matter (trace), trace shell has,
-10'	80.7 cm	LDW20-80.7-SC255B		Silt, fine sand, dense, moist black, sulfide odor
-13'	135.3 cm	LDW20-135.3-SC255C		Silt fine sand, dense, moist, black, sulfide odor, one large piece of ^{wood} gravel (~3 inches)
-16'	162.6 cm			

A
 0 - 80.7 cm
 B
 80.7 - 135.3 cm
 Z
 135.3 - 162.6 cm

Sediment Core Processing Form

Project: AOC4-Duwamish

Date: 6/19/20

Processed By:

Location ID: 256

Per 2

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 43 in → 109.2 cm

Compacted Depth: 103.5 cm

Compaction-Correction Factor: 0.948

45 cm → 42.7 cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	0 cm	LOW20-IT256		<p>Dark brown wet sand silt w/ fine sand. organic debris present (stick twigs) No odor</p>

Sediment Core Processing Form

Project: AOC 4 - Dewamish
 Date: 6/12/20
 Processed By: AETOO
 Location ID: 257

Penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 23m → 58.4cm
 Compacted Depth: 42 cm
 Compaction-Correction Factor: 0.72
45 → 32.4cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p>	<p>LOW20-IT257</p>		<p>Silt, fine-med. sand. dark brown. No odor trace anthropogenic debris (glass) possible trace shell hash</p>

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/12/20
 Processed By: BA PC
 Location ID: 258

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 22m → 55.9cm
 Compacted Depth: 42 cm
 Compaction-Correction Factor: 0.75
45 → 33.8 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p> <p>33.8 cm</p>	<p>LOW20-IT28</p>		<p>dark grey / brown</p> <p>no odor</p> <p>moist</p> <p>silty w/ fine sand</p> <p>trace organic material (woody debris)</p>

Sediment Core Processing Form

Project: AOC4-Dowamish

Date: 6/19/20

Processed By: LAHAT PC+AE

Location ID: 259

Tier 2

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 30m → 76.2cm

Compacted Depth: 55.5m → 72cm

Compaction-Correction Factor: 0.945

45m → 42.5cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p> <p>42.5</p>	<p>LDW20-IT259</p>		<p>shell hash, coarse waddy debris</p> <p>barely moist</p> <p>dark brown / grey</p> <p>moderate H₂S odor</p> <p>silt w/ some very fine sand</p>

Sediment Core Processing Form

Project: AOCY - Ouwonish
 Date: 6/18/20
 Processed By: AZ/CO
 Location ID: 260
 Tier 2

Paralobum

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 34 in → 86.4 cm
 Compacted Depth: 80.5 cm
 Compaction-Correction Factor: 0.932
 45 cm → 41.9 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes <small>(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</small>
	0 cm 41.9 cm	LAW20-IT260		Dark grey-brown silt with medium sand wet, no odor, trace organic material (sticks)

9:30



Sediment Core Processing Form

Project: AOCY-Duwamish

Date: 6/11/2020

Processed By: AE, CF, LL, AZ

Location ID: Z61

64.6 cm shal material
Tier 1
-12.00 mllw

Penetration
Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 84" → 213.36 cm

Compacted Depth: 192.5 cm

Compaction-Correction Factor: 0.90

A) shal 64.6 cm → 56.1 cm CF

B) 60 cm core → 54 cm CF

Z) 30 cm → 27 cm CF

Tier 2
Tier 1
Tier 2

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-12.88 ft	0	LOW20-SC261A		Silt and coarse sand, wet, dark gray, no odor, trace wood (stems)
-15	58.1 cm	LOW20-SC261B		Silt, fine sand, moist, black, no odor , trace wood fibers slight sulfide odor CF 6-11-2020
-17	112.1 cm	LOW20-SC261C		Silt, fine sand, moist, dense black, no odor, trace wood (stems)
-18.1 ft	139.1 cm	LOW20-SC261D		

A
0 - 56.1 cm

B
56.1 - 112.1 cm

Z
112.1 cm - 139.1 cm

Sediment Core Processing Form

Project: AOCY-OUWAMISH
 Date: 6/18/20
 Processed By: AEIRC
 Location ID: 262
 Tier 2

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60m → 152.4
 Compacted Depth: 149cm
 Compaction-Correction Factor: 0.978
 60cm → 58.7cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm		LDW20-5262		Dark brown/black silt with fine sediment. Trace shell hash and organic matter with trace woody debris as well. Strong H ₂ S odor.
58.7cm	58.7cm			

0:02 (use all)



Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 10/11/2020
 Processed By: _____
 Location ID: 263
Tier 2

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60.96 cm
 Compacted Depth: 39.5 cm
 Compaction-Correction Factor: 0.65
~~40 cm core = 26 cm (AF)~~
~~45 cm core = 29.2 cm~~

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	0 cm			Soft brown surface, stiff dark grey silt, ^{+ fine sand} dense, moist, slight odor (sulRide), trace shell hash
29.2 cm	29.2 cm	LDW70-IT263		

Sediment Core Processing Form

Project: AOCY-Dowamish

Date: 6/4/20

Processed By: BQ/RC

Location ID: SC264

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 5.1m 4.4ft - 134.1cm

Compacted Depth: 131cm

Compaction-Correction Factor: 0.98

60 → 58.0 cm

Recovery Depth

Collection Depth

Sample ID

Other

Sample Description and Notes

(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)

0cm

0cm

dark grey/black color

moist

silt and fine sand

no odor

LOW20-SC264

58.4 cm

58.4 cm

Sediment Core Processing Form

Project: AOC4 - Downamish

Date: 6/18/20

Processed By:

Location ID: 265

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 75 cm → 190.5 cm

Compacted Depth: 180 cm

Compaction-Correction Factor: 0.945

Shed A - 76.5 cm → 72.3 cm

B - 80 cm → 56.7 cm

Z - 30 cm → 28.4 cm

Tier 2

Flu. 5cm Shoal material

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
12.0 ft	0 cm	LOW20-SC65A		dark gray silt w/ fine sand, moist no odor trace shell hash, trace organic material (sticks, plants)
15 ft	72.3 cm	LOW20-SC65B		Dark olive-grey silt, Trace organic material (sticks/plant matter) Consistency of pudding. Moist.
17 ft	129 cm	LOW20-SC65Z		dark grey/black. trace small organic matter. slightly moist. no odor. silt w/ very fine sand.
18 ft	157.4 cm			

A
0-72.3cm

B
72.3-129cm


Z
129-157.4 cm

Sediment Core Processing Form

Project: AOC4 - Downamish
 Date: 6/12/20
 Processed By: BQ/RC
 Location ID: 266

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 36 cm → 96.4 cm
 Compacted Depth: 82 cm
 Compaction-Correction Factor: 0.90
 45 → 40.4 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm 	0 cm	COW20-IT266		silt w/ fine sand, moist, dark gray, trace biota, no odor

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/18/20
 Processed By: AEIRC
 Location ID: 26F
7742

penetration

Core Type: (Intertidal) Subtidal Shoaling
 Recovery Depth: 41m → 104.1cm
 Compacted Depth: 98cm
 Compaction-Correction Factor: 0.941
45cm → 42.3

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p align="center">0cm</p>	<p align="center">L0W20-IT26F</p>		<p>dark grey / brown</p> <p>slightly moist</p> <p>coarse organic matter (trace)</p> <p>silt w/ fine sand</p> <p>no odor</p>

12:38



Sediment Core Processing Form

Project: AOC 4 - Downwash

Date: 6/11/2020

Processed By: _____

Location ID: 26B
Tier 1

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 52" → 132.08cm

Compacted Depth: 121cm

Compaction-Correction Factor: 0.92

45cm core = 41.4cm CF

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
<p>0cm</p> <p>41.4cm</p>	<p>0cm</p> <p>41.4cm</p>	<p>LDW20-17268</p>		<p>dark brown</p> <p>slightly moist</p> <p>large coarse woody debris</p> <p>silty w/ fine sand</p> <p>no odor</p>

Sediment Core Processing Form

Penetration

Project: AOC4 - Duwamish

Core Type: Intertidal Subtidal (Shoaling)

Date: 6/11/2020

Recovery Depth: 84" → 213.36 cm

Processed By: AE, CF, PP, AS

Compacted Depth: 190.5 cm

Location ID: 269

Compaction-Correction Factor: 0.89

0.9 cm shoal material

A) shoal material 0.9 cm → 77.34 CF

Tier 1

B) 60 cm core → 53.4 cm CF

-12.15 MLW

Z) 30 cm → 26.7 cm CF

Tier 2
Tier 1
Tier 2

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-12.15 ft	0 cm	L0W20-SC269A		Silt and coarse sand, black silt, brown sand, slight odor, moist, trace wood (stem)
-15 ft	77.34 cm	L0W20-SC269		Black silt and fine sand, dense, moist, trace wood (stem) slight odor
-17 ft	130.74 cm	L0W20-SC269		Black silt and fine sand, dense, moist, no odor
-18 ft	157.44 cm	L0W20-SC269		

A
0 - 77.34 cm

B
77.34 - 130.74

Z
130.74 - 157.44

Sediment Core Processing Form

Project: AOCY-Dowamish

Date: 6/18/20

Processed By: _____

Location ID: 270

Tier 2
60.0cm Sheal material

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery-Depth: 60.0m → 152.4cm

Compacted Depth: 1.2cm

Compaction-Correction Factor: 0.735

Sheal: A-60cm → 44.1cm
B-60cm → 44.1cm
Z-30cm → 22.1cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
-130.5 0	0	LOW20-SC270A		dark gray silt w/ sand, wet trace biota (worm), trace organic debris (sticks), no odor
-156 44.1 44.1	44.1 44.1	LOW20-SC270B		silt w/ sand, dark gray, wet, trace organic debris (sticks), moderate odor H7S
-184 88.2 88.2	88.2 88.2	LOW20-SC270Z		Silt w/ sand, dark gray, wet, trace H7S odor trace woodey debris (wood piece)
-194 110.3	110.3			

A
0-44.1cm

B
44.1cm
-
88.2cm

Z
88.2cm
-
110.3cm

12:18



Sediment Core Processing Form

Project: AOY - Duwamish
 Date: 6/11/2020
 Processed By: CF & AZ
 Location ID: 271
Tier 2

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 30" → 76.2 cm
 Compacted Depth: 65 cm
 Compaction-Correction Factor: 0.85
60 cm core = 51 cm CF

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
<p>0 cm 51 cm</p>	<p>0 cm 51 cm</p>	<p>LDW20-SC271</p>		<p>silt, Dark grey-black, moist, shell hash present trace organic debris (twig) slight odor</p>



Sediment Core Processing Form

Project: AOE 4 - Duwamish
 Date: 6/11/2020
 Processed By: AE & RC
 Location ID: 272
Tier 1

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 58" 147.32cm
 Compacted Depth: 135.5cm
 Compaction-Correction Factor: 0.92
45cm core = 41.4cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm			
41.4 cm	41.4 cm	LDW20-11272		Dark brown, Mostly silt, some fine sand, fairly dry, slight H ₂ S odor

12:27



Sediment Core Processing Form

Project: Acc 4 - Duwanish
 Date: 6/11/2020
 Processed By: AE, RC
 Location ID: 273
Tier 2

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 604 → 152.4 cm
 Compacted Depth: 135 cm
 Compaction-Correction Factor: 0.89
60 cm core = 53.4 cm CF

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	0 cm	LDW20-SC273		Dark brown, silt, fine sand, trace small organic matter, no odor
53.4 cm	53.4 cm			

Sediment Core Processing Form

Project: AOCY-Duncanish
 Date: 01/25/20
 Processed By: CF/TA
 Location ID: 300
 TRC2

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: ~~60m~~ 152.4m ~~56in~~ 142.2
 Compacted Depth: 134cm
 Compaction-Correction Factor: ~~0.879~~ 0.942
 45cm → 39.6cm 42.4cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	42.4cm	LOW20-IT300		Fine silty sand, slightly moist, no odor, waddy debris (chunky) throughout

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/22/20
 Processed By: AE/LH
 Location ID: 301

Prohibit

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 31cm → 41.4
 Compacted Depth: 85.5
 Compaction-Correction Factor: 0.935
45cm → 42.1cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes <small>(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</small>
0cm		LQW20-IT301		<p>Removed vegetation from top 4cm of core</p> <p>Silt, coarse sand, and gravel.</p> <p>No visible organic matter.</p> <p>No odor.</p> <p>Dark brown.</p> <p>Damp.</p>
42.1cm				

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/22/20
 Processed By: RC/TA
 Location ID: 302

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 19.5m → 49.5cm
 Compacted Depth: 49.0
 Compaction-Correction Factor: 0.99
 45cm → 44.6cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LOW20-IT302		very dark brown moist large rocks/pebbles (1-3" in size) trace organic matter (twigs/sticks) light petroleum odor silt w/ fine sand

9.14



Sediment Core Processing Form

Project: ARC-4 - Downamish
 Date: 6/23/2020
 Processed By: AG, LH
 Location ID:
304
tier 1

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 75" → 63.5cm
 Compacted Depth: 59.5cm
 Compaction-Correction Factor: 0.94 CF
45cm core → 42.3 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm				silt w/ fine sand; Dark grey; trace woody debris; moist; no odor
42.3 cm		LDW20 - IT 304		

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/18/20
 Processed By: AZLCO
 Location ID: 305
Ther

Penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 40cm → 101.6cm
 Compacted Depth: 94.5cm
 Compaction-Correction Factor: 0.93
45cm → 41.9cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p>	<p>LOW20-IT305</p>		<p>Dark brown silt fine sand, wet trace organic matter (stick)</p>

Sediment Core Processing Form

Project: AOCY-Dowamish
 Date: 0122/20
 Processed By: AE/LH
 Location ID: 306

Preselection

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 31m → 78.7cm
 Compacted Depth: 79cm
 Compaction-Correction Factor: 45cm → 45cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm 45cm		LOW20-IT306		Dark brown silt and fine sand. No visible organic matter and no odor.



Sediment Core Processing Form

Project: AO04 - Downamish

Date: 6/24/2020

Processed By: _____

Location ID: CHS AZ

307

herr

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 24" → 61cm

Compacted Depth: 54.5 cm

Compaction-Correction Factor: 0.89 CF

45 cm core → 40.5 cm core

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p> <p>40.5 cm</p>	<p>LDW20-IT307</p>		<p>Damp dark brown silt. trace sands. Very dense / lumpy. Trace chemical odor. No visible debris of any kind. AZ trace shell hash</p>

Sediment Core Processing Form

Project: AOC 4 - Downomish
Date: 6/22/20
Processed By: AE/LH
Location ID: 308

Procturum

Core Type: (Intertidal) Subtidal Shoaling
Recovery Depth: 31.5m → 80cm
Compacted Depth: 72.5
Compaction-Correction Factor: 0.906
45cm → 40.8cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0cm</u>	<u>LOW20-IT308</u>		<u>Dark brown silt with some fine sand. No visible organic matter and No odor.</u>

Sediment Core Processing Form

Project: AOC4 - Duwanish
 Date: 6/22/20
 Processed By: RCITA
 Location ID: 309

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 37m → 94.0cm
 Compacted Depth: 88cm → 94cm
 Compaction-Correction Factor: 0.936
45cm → 42.1cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
		LOW20-IT309		<ul style="list-style-type: none"> - very dark brown - trace shell wash - silt w/ fine sand - moist - no odor

Sediment Core Processing Form

Project: AOCY-DUNHAMISH
 Date: 01/5/20
 Processed By: RE + BQ
 Location ID: 310

Penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 25m → 63.5cm
 Compacted Depth: 51cm
 Compaction-Correction Factor: 0.803
45 → 36.1cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p>	<p>LDW20-IT310</p>		<p>silty with very fine sand Very dark gray to black Odor none Very moist No debris</p>



Sediment Core Processing Form

Penetration

Project: AOCY - Duwamish

Core Type: Intertidal Subtidal Shoaling

Date: 6/23/2020

Recovery Depth: 26" → 106cm

Processed By: EC, TA

Compacted Depth: 65cm

Location ID:

Compaction-Correction Factor: 0.98 CF

311

45cm core → 44.1cm (CF)

tier 2

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p> <p>44.1 cm</p>	<p>LDW20-IT311</p>		<p>dark brown</p> <p>moderate woody debris, stringy, ~4" long</p> <p>Silt w/ fine sand</p> <p>barely moist, crumbly, hard to mix</p> <p>slight H₂S odor</p>

Sediment Core Processing Form

Project: AOCY-Downamish

Date: 012220

Processed By: AE/LH

Location ID: 312

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 30.5m ~~77.5cm~~

Compacted Depth: 70cm

Compaction-Correction Factor: 0.981

45cm → 44.1cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LOW20-IT312		<p>Mostly dark brown sand with silt No visible organic matter and no odor</p>

0:43



Sediment Core Processing Form

Project: A004-Dowamish
 Date: 6/23/2022
 Processed By: AE, LH
 Location ID: 313
Flr 1

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 20" → 50.8cm
 Compacted Depth: 46.5cm
 Compaction-Correction Factor: 0.92
45cm core → 41.4cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LDW20-IT313		<p>Dark brown/black silt and fine sand sediment was dry, no odor, and trace woody debris</p>

1155



Sediment Core Processing Form

Penetration

Project: ADC4 - Downwash
 Date: 6/17/2020
 Processed By: AE & EC
 Location ID:
314
tier 2

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 56" → 142.2 cm
 Compacted Depth: 117.5 cm
 Compaction-Correction Factor: 0.82 CF
60 cm core → 49.2 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	L-DWS20 - SC 314		<p>Dark brown/Black silt with fine sand. Coarse organic matter present in trace amounts No odor</p>

Sediment Core Processing Form

Project: AOCY-Dewanish
 Date: 02/15/20
 Processed By: AZ/CO
 Location ID: 315
 TTR2

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 32m → 78.3cm
 Compacted Depth: 76cm
 Compaction-Correction Factor: 10.935
 45cm → 42.1cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm		LOW20-JT315		Silt w/ fine sand dark brown, wet, soft, no odor, trace organics (stickle), trace biota (worm)

Sediment Core Processing Form

Project: AOCY - DUWOMISH
 Date: 6/22/20
 Processed By: RCITA
 Location ID: 316

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 27m → 68.6cm
 Compacted Depth: 66.5cm
 Compaction-Correction Factor: 0.969
 45cm → 43.6cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p>	<p>LOW20-IT316</p>		<p>fine sand Silty, slightly moist, trace shell hash, no odor</p>

B:1B



Sediment Core Processing Form

Project: AUCY - Duwamish
 Date: 6/23/2020
 Processed By: _____
 Location ID: 317
her 2

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 25" → 63.5 cm
 Compacted Depth: 61 cm
 Compaction-Correction Factor: 0.96 CF
45 cm core → 43.2 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0 cm	UDW20-IT 317		dark brown low moisture trace organic matter & shell hash no odor silt with fine sand
	43.2 cm			

Sediment Core Processing Form

Project: AOCY-Dowamish
 Date: 6/4/20
 Processed By: BQ/RC
 Location ID: 318

Prohibition

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 60m → 132.40m

Compacted Depth: 146.5 cm

Compaction-Correction Factor: 0.96

60cm → 57.7cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm	LD320-SC318		moist - pasty oily sheen dark grey to black silty with fine sand light odor - earthy
57.7cm	57.7cm			

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/19/20
 Processed By: CMIAZ
 Location ID: 319

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 51in → 129.5
 Compacted Depth: 129cm
 Compaction-Correction Factor: 0.996
 45 → 44.8

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	COWAD-IT 319		Dark brown wet silt w/ fine med. sand. No odor trace shell hash

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/22/20
 Processed By: AE/LH
 Location ID: 320

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 40.5m → 102.9cm
 Compacted Depth: 99.5cm
 Compaction-Correction Factor: 0.967
45cm → 43.5cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0	LW20-IT320		Sand w/ some silt. Dry. Dark brown. No odor.

9:31



Sediment Core Processing Form

Project: ADCY - DOWAMISH

Date: 6/23/2020

Processed By: AE, LH

Location ID:

321

48X2

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 21" → 53.3 cm

Compacted Depth: 53.5 cm

Compaction-Correction Factor: 1.00 CF

45 cm core → 45 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	45 cm	LDW20-IT321		Mostly dark brown/black dry silt with coarse sand. No odor or visible organic matter

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/5/20
 Processed By: OCAE
 Location ID: 322

Penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60m → 152.40m
 Compacted Depth: 133.5 cm
 Compaction-Correction Factor: 0.876
60 → 52.6cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm 	0cm 52.6	LDW20-SC322		silt w/ F-M sand, dark gray, wet, slight H ₂ S odor, moderate odor while collecting and homogenizing

Sediment Core Processing Form

Project: A004-Dowamish
 Date: 6/22/20
 Processed By: RCITA
 Location ID: 323

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 19m → 48.3cm
 Compacted Depth: 44cm
 Compaction-Correction Factor: 0.911
45cm → 41.0cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0</p>	<p>L0W20-IT323</p>		<p>very dark grey trace organic matter moist silt w/ fine sand</p>

7:20




Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/16/2020
 Processed By: AE & AZ
 Location ID: 324
Tier 1

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60 in → 152.4 cm
 Compacted Depth: 140 cm
 Compaction-Correction Factor: 0.92
60cm core → 55.2 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>Down</u>	<u>LDW70-SC324</u>		<p>More moisture than usual, soft core. Slight odor of decomposition of organic matter. Trace organic matter and some twigs present. Dark brown/black silt.</p>

7:40

	Sediment Core Processing Form	
	Project: <u>AOCY - Duwamish</u> Date: <u>6/16/2020</u> <u>by</u> Processed By: <u>RCM/L.H.</u> Location ID: <u>325</u> <u>tier 2</u>	Penetration Core Type: Intertidal <u>Subtidal</u> Shoaling Recovery Depth: <u>60"</u> → <u>152.4cm</u> Compacted Depth: <u>129cm</u> Compaction-Correction Factor: <u>0.85 CF</u> <u>60cm core → 51cm (CF)</u>

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm		LDW70-SC325		Mostly silt w/ some fine sand; moist; dark grey, no odor;
51cm				

7.576



Sediment Core Processing Form

Project: ADCY - Duwanish
 Date: 6/16/2020
 Processed By: AFS AZ
 Location ID:
 326
 tier 1

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 57" → 144.8cm
 Compacted Depth: 144.5cm
 Compaction-Correction Factor: 0.99
 60cm core → 59.4cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LDW70-SC326		Dark brown silt w/ fine sand, wet. Organic debris (sticks) (wocky debris) No odor

8:02



Sediment Core Processing Form

penetration

Project: ADN 4 - Duwamish

Core Type: Intertidal Subtidal Shoaling

Date: 6/16/2020

Recovery Depth: 56" → 142.2 cm

Processed By: PC & LH

Compacted Depth: 127 cm

Location ID: 327

Compaction-Correction Factor: 0.89 CF

60 cm core = 53.4 cm (CF)

her 1

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0.60m</u>	<u>LDW 20 - SC 327</u>		<u>silt w/ sand silt fine, Moist, dark grey; no odor; woody debris</u>

53.4cm

B:13



Sediment Core Processing Form

Project: AD04 - Duwamish

Date: 6/16/2020

Processed By: AG & AZ

Location ID: 328

Her 2

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 56" → 142.2

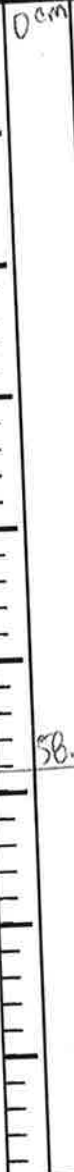
Compacted Depth: 138 cm

Compaction-Correction Factor: 0.97 CF

100 cm core → 56.2 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other
----------------	------------------	-----------	-------

Sample Description and Notes
 (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)



0 cm
 56.2 cm
 UD20-SC328

Dark brown / black silt, ^{CF} moisture pretty wet core, some trace organic matter

B:23



Sediment Core Processing Form

Project: ADCY - Duwamish
 Date: 6/16/2020
 Processed By: RC & LH
 Location ID: 329
tier 2

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 48" → 21.9 cm
 Compacted Depth: 104 cm
 Compaction-Correction Factor: 0.85 CF
60cm core → 51cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0 cm	LDW20-SC329		Silt w/ some fine sand; wet; dark grey; no odor

11:29



Sediment Core Processing Form

penetration

Project: AOC 4 - Duwamish
 Date: 6/14/2020
 Processed By: AEFAZ
 Location ID: 330
triv 1

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 38" → 96.5 cm
 Compacted Depth: 84.5 cm
 Compaction-Correction Factor: 0.88
45 cm core → 39.6 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other
	<u>0 cm</u>	<u>LDW20-IT 330</u>	
	<u>39.6 cm</u>		

Sample Description and Notes
 (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)

Dark brown medium-coarse sand with silt.
 Moist. Trace organic debris (plant matter) (sticks)
 Trace shell hash
 No odor.

11:34



Sediment Core Processing Form

Project: AD04-Dunwich
 Date: 6/16/2020
 Processed By: RC & LH
 Location ID:
331
flr 1

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 56" → 142.2
 Compacted Depth: 131 cm
 Compaction-Correction Factor: 0.92
45 cm core → 41.4 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LDW20-IT331		<p>dark grey silt w/ fine sand no odor moist</p>
	41.4 cm			



Sediment Core Processing Form

Project: AOCY - DOWAN:SH
Date: 6/16/2020
Processed By: AE & AZ
Location ID:

Penetration

Core Type: Intertidal Subtidal Shoaling
Recovery Depth: 44" → 111.8cm
Compacted Depth: 95.5cm
Compaction-Correction Factor: 0.85 CF
 45cm core → 38.3cm (CF)

332
 Tier 1 - Extra
 grain size

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm				
	28.3cm	LDW70-IT-332		Dark brown, silt w/ some fine sand, wet, trace woody debris, biota present (invertebrates) No odor

Sediment Core Processing Form

Project: AOCY-Dowamish
 Date: 6/10/20
 Processed By: AETRC
 Location ID: 333
Tier 2

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 0.0m → 152.4cm
 Compacted Depth: 135.5cm
 Compaction-Correction Factor: 0.889
0.00 → 53.4cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p>	<p>LOW20-SC333</p>		<p>Silt, very fine sand, trace organic material, dark brown, no odor, some shell fragments</p>

Sediment Core Processing Form

Project: AOC4-DOWNWASH
 Date: 6/10/20
 Processed By:
 Location ID: 334

point to shore

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 30 m → 76.2 cm
 Compacted Depth: 57.5 cm
 Compaction-Correction Factor: 0.755
 45 → 34.0 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes <small>(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</small>
0 cm	0 cm			Silt, fine sand. Dark dice-grey. wet trace odor, sulfide trace AZ trace organic debris (roots)
34.0 cm	34.0 cm	LDW20-IT334		

Sediment Core Processing Form

Project: AOCY-DUWAMISH
 Date: 6/9/20
 Processed By: BQ; RC
 Location ID: 335
Tier 2

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 57m 144.78 cm
 Compacted Depth: 129.5 cm
 Compaction-Correction Factor: 0.09
60 → 53.4 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0 cm</p> <p>53.4 cm</p>	<p>LOW 20 - SC 335</p>		<p>moist silty w/ very fine sand no odor or debris dark grey/black w/ some brown (pre-mixed)</p>

Sediment Core Processing Form

Project: AOC4 - Ouwamish
 Date: 6/5/20
 Processed By: BQR
 Location ID: 336
 Field Dup

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 48 in → 121.9 cm
 Compacted Depth: 99.0 cm
 Compaction-Correction Factor: 0.812
 60 → 48.7 cm

Sample Description and Notes

(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)

Recovery Depth	Collection Depth	Sample ID	Other
0cm	0cm		
48.7 cm	48.7 cm	LOW20-SC336	

Silty w/very fine sand
 Black
~~#2~~ #8 bq
 H₂S odor when core first cut open.

Sediment Core Processing Form

Project: ADC4-Duwamish
 Date: 6/19/20
 Processed By: CO/AE
 Location ID: 337
 T1e12

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60 → 152.4 cm
 Compacted Depth: 145 cm
 Compaction-Correction Factor: 0.951
 60 cm → 57.1 cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	0 cm	L0W20-SC337		<p>Silt w/ fine sand, dark gray/black, wet, no odor, trace shell hash and organic debris (sticks)</p>

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 06/15/20
 Processed By: AE/AB
 Location ID: 339
Her 2

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: Stem 142.2cm
 Compacted Depth: 123cm
 Compaction-Correction Factor: 0.865
60cm → 51.9cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm		LDW20-SC339		Dark brown-grey, silt, some fine sand coarse organic matter (st. Lks), wet. No odor
61.9cm				

Sediment Core Processing Form

Project: AOC 4-Duwamish
 Date: 6/15/20
 Processed By: CF/2H
 Location ID: 340

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 57cm → 144.8cm
 Compacted Depth: 124cm
 Compaction-Correction Factor: 0.96
60cm → 51.4cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm		LDwa20-SC340		Silt, fine sand; wet; Black; Trace wood; No odor.
51.4cm				

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/15/20
 Processed By: _____
 Location ID: 343
Tier 2

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 50cm → 142.20m
 Compacted Depth: 124cm
 Compaction-Correction Factor: 0.872
60cm → 52.3cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0cm</u>	<u>CDW20-SC343</u>		<p>Dark brown/black, trace H₂S odor, silt and very fine sand, trace coarse organic matter (sticks)</p>

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 01/15/20
 Processed By: CF/LH
 Location ID: 345

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60m → 152.4cm
 Compacted Depth: 144.5cm
 Compaction-Correction Factor: 0.948
60cm → 56.9cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	L-DW20-SC345		Mostly silt some fine sand; moist; dark grey; no odor; trace biota (worms)

Sediment Core Processing Form

Project: ADCY-Dowamish
 Date: 6/15/20
 Processed By: CFLH
 Location ID: 346

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 56cm → 142.2
 Compacted Depth: 107.5
 Compaction-Correction Factor: 0.753
60cm → 45.2cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LOW20-SC346		Mostly silt w/ some fine sand; moist; Dark grey; no odor; trace biota (worms)

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/15/20
 Processed By: _____
 Location ID: 348

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 56cm → 142.2cm
 Compacted Depth: 126.5cm
 Compaction-Correction Factor: 0.99
60cm → 53.4cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	53.4cm	LOW20-SC348		Silt, Fine sand. Dark gray-brown, wet. Coarse organic matter (sticks) worm/biota present no odor

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 01/15/20
 Processed By: AZIAE
 Location ID: 349
 Field Dip

particulate

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 50cm → 127cm
 Compacted Depth: 110.5
 Compaction-Correction Factor: 0.87
 60cm → 52.2cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LOW20-SC349		Dark brown/Black, silt, trace H ₂ S odor, coarse organic matter, wet not dry packed

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/15/20
 Processed By: AZLAE
 Location ID: 351

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: ~~57m~~ 714.8cm
 Compacted Depth: 120cm
 Compaction-Correction Factor: 0.829
60cm = 49.7cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p>	<p>LDW20-SC351</p>		<p>Dark brown/Black, Silt, some trace coarse organic matter, Trace petroleum odor</p>
	<p>49.7cm</p>			<hr/>

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/15/20
 Processed By: CF/LL
 Location ID: 353

partially

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: ~~116.8~~ 116.8
 Compacted Depth: 96.5cm
 Compaction-Correction Factor: 0.826
 60cm → 49.6

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	L-DW20-SC353		Mostly silt, some coarse sand, some fine sand, some gravel; Moist; dark grey; trace wood debris; no odor.

Sediment Core Processing Form

Project: AOCY - Duwamish
 Date: 6/9/20
 Processed By: OR/IAE
 Location ID: 354
TR/2

penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 60cm → 152.4cm
 Compacted Depth: 118cm
 Compaction-Correction Factor: 0.774
45cm → 34.8cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm			Silt w/ fine sand, dark brown. Wet no odor trace organic debris
34.8cm	34.8cm	LOW 20 - IT 354		

Sediment Core Processing Form

Project: AOC 4 - Duwanish
Date: 6/19/20
Processed By: BQRC
Location ID: 355
Tier 2

Recovery

Core Type: Intertidal Subtidal Shoaling
Recovery Depth: 56 in → 142.2 cm
Compacted Depth: 130 cm
Compaction-Correction Factor: 0.914
60 → 54.9 cm

Recovery Depth

Collection Depth

Sample ID

Other

Sample Description and Notes
(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)

0cm

0cm

Very dense grey to black
no odor or debris
Very moist
silty w/ very fine sand

54.9
cm

54.9
cm

LOW20-SC355

Sediment Core Processing Form

Project: ADCY - Ouwamish
 Date: 6/19/20
 Processed By: BQ/RC
 Location ID: 356

Penetration
 Core Type: (Intertidal) Subtidal Shoaling
 Recovery Depth: 48 → 121.9 cm
 Compacted Depth: 104 cm
 Compaction-Correction Factor: 0.853
45 → 38.4 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	0 cm	LOW20-IT356		Black slight odor (smokey smell) slightly wet no debris silty w/ Fine sand
38.4 cm	38.4 cm			

Sediment Core Processing Form

Project: AOCY-DUWAN3M
 Date: 6/9/20
 Processed By: COL AE
 Location ID: 357
Tier 2

Protocols

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 58m / 147.3 cm
 Compacted Depth: 1.37 cm
 Compaction-Correction Factor: 0.93
457 41.9 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0m 	0m 41.9 cm	LDW20-IT357		Silt and fine sand, dark brown, no odor, trace organics

Sediment Core Processing Form

Project: AOCY-Dowamish
 Date: 6/18/20
 Processed By: AE/RC
 Location ID: 358
TRC2

penetration

Core Type: (Intertidal) Subtidal Shoaling
 Recovery Depth: 45m → 114.3
 Compacted Depth: 108.5
 Compaction-Correction Factor: 0.95
45m → 42.8cm

Recovery Depth	Collection Depth	Sample ID	Other
0m		10W20-IT358	
0.5m			
1m			
1.5m			
2m			
2.5m			
3m			
3.5m			
4m			
4.5m			
5m			
5.5m			
6m			
6.5m			
7m			
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8m			
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40m			
40.5m			
41m			
41.5m			
42m			
42.5m			
43m			
43.5m			
44m			
44.5m			
45m			

Sample Description and Notes
 (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)

Silt and fine sand, dark brown/black. Trace coarse organic matter. No odor

Sediment Core Processing Form

Project: AOCH - Oowamish
 Date: 6/10/20
 Processed By: AEIRC
 Location ID: 359

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 24m → 61cm
 Compacted Depth: 56.5cm
 Compaction-Correction Factor: 0.926
45 → 41.7 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p> <p>41.7 cm</p>	<p>LOW20-ITB59</p>		<p>dark grey color strong H₂S odor silt w/ fine sand coarse organic material moist</p>

Sediment Core Processing Form

Project: AOCY-Duwemish
 Date: 06/19/20
 Processed By: AG/RC
 Location ID: 360
Trer 2

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 48m → 121.9cm
 Compacted Depth: 119.5cm
 Compaction-Correction Factor: 0.972
45cm → 43.7cm

Recovery Depth	Collection Depth	Sample ID	Other
	<u>0cm</u>	<u>LOW20-SC360</u>	

Sample Description and Notes
 (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)

Dark brown/black silt and fine sediment. No visible organic matter and no odor.

Sediment Core Processing Form

Project: ADC4 - Downemish
 Date: 6/15/20
 Processed By: KC & BR
 Location ID: 361

Penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 39 in → 99.1 cm
 Compacted Depth: 99.5 cm
 Compaction-Correction Factor: 0
 45 → 45 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm			silty w/ fine sand moist Dark gray to black trace wood debris (twigs) no odor
45cm	45cm	LDW20-IT361		

Sediment Core Processing Form

Project: AOC4-DUWAMISH
 Date: 6/9/20
 Processed By:
 Location ID: 362
 nec2

penetration

Core Type: Intertidal (Subtidal) Shoaling
 Recovery Depth: 60.17 → 152.7cm
 Compacted Depth: 137cm
 Compaction-Correction Factor: 0.90
 60 → 53.9cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LOW20-SC362		<p>silty w/ very fine sand Black No debris slightly wet No odor</p>

Sediment Core Processing Form

Project: AOCY-Duwamish
 Date: 6/9/20
 Processed By: COLAE
 Location ID: 303
Tier 2

penetration

Core Type: (Intertidal) Subtidal Shoaling
 Recovery Depth: 50m → 142.2cm
 Compacted Depth: 125.5cm
 Compaction-Correction Factor: 0.883
457 39.7cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
<p>0cm 39.7cm</p>	<p>0cm 39.7cm</p>	<p>LOW20-IT363</p>		<p>Silt, dark brown, no odor, trace organic matter</p>

Sediment Core Processing Form

Project: AOC4-Dowemish
 Date: 6/10/20
 Processed By:
 Location ID: 364

Parachute

Core Type: Intertidal Subtidal Shoaling
 Recovery-Depth: 60m → 152.4cm
 Compacted Depth: 147.5cm
 Compaction-Correction Factor: 0.968
 45 → 43.6 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm			Silt, wet fine sand, wet, dark grey, slight odor, trace biota (worms) (stick)
43.6cm	43.6cm	LOW20-IT364		

Sediment Core Processing Form

Project: AOC4-DOWAMISH
 Date: 6/15/20
 Processed By:
 Location ID: 3605

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 34m → 86.4cm
 Compacted Depth: 69.5cm
 Compaction-Correction Factor: 0.804
 45 → 36.2cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	0cm			Silt, fine-med. sand, Dark brown, Moist No odor. Biota (small invertebrates)
36.2cm	36.2cm	LOW20-IT365		

11:46



Sediment Core Processing Form

Project: A-004-Duwamish
 Date: 6/17/2020
 Processed By: NO & AZ
 Location ID:
366
herz

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 28" → 71.1 cm
 Compacted Depth: 65.5 cm
 Compaction-Correction Factor: 0.92 CF
(60 cm core → 55.2 cm (CF))

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm	LDW20-SC366		<p>Grey brown medium sand with silt, damp. Trace petroleum odor, wood waste (dark colored stick/wood) biota present (bugs) (insects) <i>AZ</i> trace shell hash</p>

Sediment Core Processing Form

Project: AOC4-Duwamish
Date: 6/17/2020
Processed By: AE & RC
Location ID:
 367
 tier 2

Penetration
Core Type: Intertidal Subtidal Shoaling
Recovery Depth: 37" → 94 cm
Compacted Depth: 89.5 cm
Compaction-Correction Factor: 0.95
 45 cm core → 42.8 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	0 cm	UDW20-IT367		Dark brown/black silt with fine sediment. No visible organic matter, slight decomposition odor.

9:16 (



Sediment Core Processing Form

Project: Acc 4 - Dowamish

Date: 6/14/2020

Processed By: _____

Location ID: 368

Sediment from core fingers used.

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 26" → 66 cm

Compacted Depth: 52 cm

Compaction-Correction Factor: 0.79 CF

66 cm core → 47.4 cm (CF)

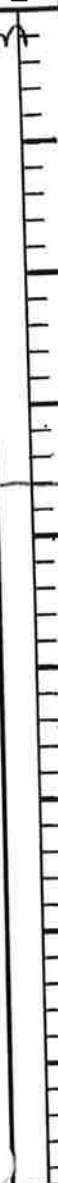
Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0 cm</u>	<u>LDW20-SC368</u>		<p>Medium-coarse sand w/ some silt no odor slightly moist trace rocks (~ 1/8") dark grey</p>

Sediment Core Processing Form

Project: AOCY - Downamish
Date: 6/19/20
Processed By: _____
Location ID: 369
Field Duplicate

penetration

Core Type: Intertidal ~~Subtidal~~ ~~Shoaling~~
Recovery Depth: 42 m → 106.7 cm
Compacted Depth: 86 cm
Compaction-Correction Factor: 0.81
45 cm → 36.3 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm 	0 cm	LOW20-IT369		silt w/ fine sand, dark gray, wet, no odor, trace organic debris

9:13



Sediment Core Processing Form

Project: ADCY-Dowamish

Date: 6/17/2020

Processed By: AE & RC

Location ID:

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 25" → 63.5 cm

Compacted Depth: 59 cm

Compaction-Correction Factor: 0.93 CF

60 cm core → 55.8 cm (CF)

370 - sediment in

- tier 2

core fingers used.

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	0 cm	LDW20-SC370		<p>brown</p> <p>Slightly moist</p> <p>some silt; mostly medium sand</p> <p>trace gravel</p> <p>no odor, no organic matter</p>

55.8 cm

12:15

Windward environmental LLC

Sediment Core Processing Form

Project: AOC4 - Duwamish

Date: 6/17/2020

Processed By: P.O. & AZ

Location ID: 371
ter 2

penetration

Core Type: (Intertidal) Subtidal Shoaling

Recovery Depth: 44" → 111.8 cm

Compacted Depth: 105 cm

Compaction-Correction Factor: 0.94 CF
45 cm core → 42.3 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other
0 cm			
	42.3 cm	LDW20-1T371	

Sample Description and Notes
(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)

Dark brown-grey silt w/ fine sand. Mast.
No odor

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 6/9/20
 Processed By: CO LAE
 Location ID: 372

penetrator

Core Type: (Intertidal) Subtidal Shoaling
 Recovery Depth: 42 in → 106.7 cm
 Compacted Depth: 87.5 cm
 Compaction-Correction Factor: 0.82
45 → 36.9 cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p> <p>36.9 cm</p>	<p>LOW20-IT372</p>		<p>Silt w/ F-m sand, dark gray, wet no odor, trace shellhash and organic debris.</p>

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 01/19/20
 Processed By: COIRC
 Location ID: 372

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 32 in / 81.3 cm
 Compacted Depth: 79 cm
 Compaction-Correction Factor: 0.97
 45 → 43.7 cm

Sample Description and Notes

(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)

Recovery Depth	Collection Depth	Sample ID	Other
0 cm	0 cm		
43.7 cm	43.7 cm	LOW20-IT379	

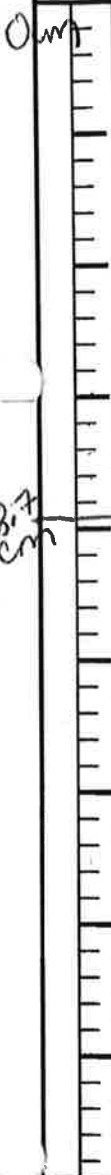
Greyish-Brown
 Silty w/ medium sand
 1-2" Rocks (approx. 10-15)
 Slight odor
 Slightly moist

Sediment Core Processing Form

Project: AOC4-Dunwich
Date: 01/10/20
Processed By: _____
Location ID: 373
Tier 2

Penetration

Core Type: (Intertidal) Subtidal Shoaling
Recovery Depth: 60m → 152.4cm
Compacted Depth: 131cm
Compaction-Correction Factor: 0.86
45 → 38.7cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0cm</u>	<u>LOW20-IT373</u>		<p>silt w/ very fine sand dark brown no odor trace large organic matter moist</p>

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 01/10/20
 Processed By: CFIAZ
 Location ID: 374

penetrator

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 57 in → 144.8 cm
 Compacted Depth: 134 cm
 Compaction-Correction Factor: 0.925
45 → 41.6 cm

Sample Description and Notes

(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)

Recovery Depth	Collection Depth	Sample ID	Other
0cm	0cm		
		LOW20-1374	
41.6 cm	41.6 cm		

Silt, very fine sand. Dark grey, wet.
 trace organics (sticks/wood)
 trace odor H₂S

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 06/10/20
 Processed By: AZ/CF
 Location ID: 375
Tree 2

penetration

Core Type: Intertida Subtidal Shoaling
 Recovery Depth: 40 in → 101.6 cm
 Compacted Depth: 85 cm
 Compaction-Correction Factor: 0.837
45 → 37.7 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0 cm</p> <p>37.7 cm</p>	<p>LOW20-I+375</p>		<p>Brown surface, silt, fine sand, moist, slight odor, bottom layer of coarse sand, multi-colored sand grains</p>

Sediment Core Processing Form

Project: AOCY-Duwamish
Date: 01/18/20
Processed By: AE/RC
Location ID: 376
7112

Penetration

Core Type: Intertidal Subtidal Shoaling
Recovery Depth: 50cm → 127cm
Compacted Depth: 127cm
Compaction-Correction Factor: 0.953
45cm → 42.89

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0cm</u>			<u>Coarse sediment and silt. Coarse organic matter in trace amounts. Slight odor of decomposition</u>
	<u>LOW 30-IT 376</u>			

Sediment Core Processing Form

Project: AOCY-DUNHAMISH
 Date: 01/19/20
 Processed By: BQ/RC
 Location ID: 377

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 24 m → 6 cm
 Compacted Depth: 55.5 cm
 Compaction-Correction Factor: 0.91
45 → 40.9 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0 cm</p>	<p>LOW20-IT377</p>		<p>Silty w/ Fine sand Black trace organic debris odor none moisture</p>

Sediment Core Processing Form

Project: AOCY - Duwanish
 Date: 01/18/20
 Processed By: AZLGO
 Location ID: 378
 Tier 2

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 49m → 124.5
 Compacted Depth: 17cm
 Compaction-Correction Factor: 0.94
 45cm → 42.3

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm		L0W20-IT378		Dark brown silt w/ sand, fine sand. Trace organic debris (SHEETS), moist texture
42.3				

Sediment Core Processing Form

Project: AOC4-Duwamish
 Date: 01/20
 Processed By: COIRC
 Location ID: 372-379
AV

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 32 in 81.3 cm
 Compacted Depth: 79 cm
 Compaction-Correction Factor: 0.97
45 → 43.7 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0 cm</p> <p>43.7 cm</p>	<p>LOW20-I7379</p>		<p>Greyish-Brown Silty w/ medium sand 1-2" Rocks (Approx. 10-15) Slight odor Slightly moist</p>

7:14



Sediment Core Processing Form

Project: AOCY - Duwanish
 Date: 6/23/2020
 Processed By: AE, LH
 Location ID:
380
Kerz

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 19.5" → 49.5 cm
 Compacted Depth: 47 cm
 Compaction-Correction Factor: 0.95 CF
60 cm core → 57 cm (CF)
 * See Sed Core Collection Form for comments on recovery, Penetration depth when drilling.

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm				<p>Recovered core amount was less than the corrected core length required for sample. Entire 47cm core was used as sample</p> <p>Homogenous brown coarse sand with no visible organic matter and no odor.</p>
57 cm		<u>LDW20-SC380</u>		



Sediment Core Processing Form

Project: AUC4-DUWAMISH
 Date: 10/17/2020
 Processed By: CO & AZ
 Location ID: 3B2
tier 2

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 24.5" → 62.2 cm
 Compacted Depth: 58.5 cm
 Compaction-Correction Factor: 0.94 CF
45 cm core → 42.3 cm (AF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm				Brown silt with med.-fine sand and gravel (~5%) Moist Organic material (grass rooted/y rained on core) No odor
42.3 cm		LDW20-IT-3B2		

6:15



Sediment Core Processing Form

Project: ADCY - Dowamish
 Date: 6/23/2020
 Processed By: AE, LH
 Location ID: 383
 rev 1

Penetration
 Core Type: Intertidal ^{ba} Subtidal Shoaling
 Recovery Depth: 24.5 ^{ba} → 62.2 cm
 Compacted Depth: 62.5 cm
 Compaction-Correction Factor: 1.00 CF
 45 cm core → 45 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0 cm	LDW20-IT383		Silty; coarse sand; some gravel; Grey; trace woody debris; No color Anthropogenic debris (pieces of brick)

13:19



Sediment Core Processing Form

Project: APC4-DUWOM:SH

Date: 6/17/2020

Processed By: AE & RC

Location ID: _____

3B5
flv2

penetration

Core Type: (Intertidal) Subtidal Shoaling

Recovery Depth: 46.5" → 118.1cm

Compacted Depth: 117.5

Compaction-Correction Factor: 0.99 CF

45 cm core → 44.6 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>DCM</u>	<u>LDW20-1T3B5</u>		<p>brown / grey silt w/ coarse sand slightly moist</p> <p>trace woody debris trace anthropogenic debris (brick)</p>

13:13



Sediment Core Processing Form

Project: AOCU-DUNHAMISM

Date: 6/17/2020

Processed By: AE & RC

Location ID: 386
tier 2

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 42" → 106.7 cm

Compacted Depth: 95 cm

Compaction-Correction Factor: 0.89 CF
45 cm core → 40.1 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0 cm</p> <p>40.1 cm</p>	<p>LDW20-1T386</p>		<p>Dark brown/black silt with fine sediment. Coarse organic matter present with no odor.</p>

11:54



Sediment Core Processing Form

Project: AOC 4 - Downamish
Date: 6/14/2020
Processed By: AED AZ
Location ID:
 387
 tier 2

penetration

Core Type: Intertidal Subtidal Shoaling
Recovery Depth: 26" → 66.04 cm
Compacted Depth: 59.5 cm
Compaction-Correction Factor: 0.90
 45 cm core = 40.5 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm	40.5 cm	LDW20 - IT387		Dark brown medium sand with silt. AZ Moist, no odor.



Sediment Core Processing Form

Project: AOC 4 - Duwamish
Date: 6/16/2020
Processed By: RCLH
Location ID:
 308
 Ter1

penetration
Core Type: Intertidal Subtidal Shoaling
Recovery Depth: 28.5" → 72.4 cm
Compacted Depth: 70.5 cm
Compaction-Correction Factor: 0.97
 45 cm core = 43.65 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0 cm				<p>Removed top 2.5 cm as there was aquatic grass + roots on surface of sediment</p> <p>trace organic matter (roots, twigs)</p> <p>silt w/ medium sand</p> <p>barely moist</p> <p>grey/brown rust</p>
		43.65 cm		
		UDW20-1T308		

12:08



Sediment Core Processing Form

penetration

Project: AOE4 - Duwamish

Date: 10/16/2020

Processed By: AE & AZ

Location ID:
389
tier 1

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 20" → 50.8cm

Compacted Depth: 47.5cm

Compaction-Correction Factor: 0.94
45cm core → 42.3cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p><u>0cm</u></p> <p><u>42.3 cm</u></p>	<p><u>LDW20-17389</u></p>		<p>Core is homogeneous coarse sand w/ trace cobble and gravel with deposits of clay-like material. Pieces of glass found in top 10cm.</p> <p>No odor.</p>

12:58



Sediment Core Processing Form

Project: ADD4 - DOWMISH
 Date: 6/16/2020
 Processed By: AZ-RC
 Location ID: _____

Penetration
 Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: ~~45.7cm~~ 50.8cm
 Compacted Depth: 32cm
 Compaction-Correction Factor: ~~0.70~~ 0.63
45cm core = 31.5 cm (CF)
20.9

390 - used all sediment
her 1 in core fingers

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0cm</u>			<p>very rocky, gravel, coarse sand</p> <p>dark brown</p> <p>removed about 10-15 pebbles, 1/8"-1" in size</p> <p>no odor</p> <p>slightly moist</p>

28.64
31.54
cm

LDW20-IT390

13:22



Sediment Core Processing Form

Project: APC 4 - Downamish

Date: 6/16/2020

Processed By: AE & AZ

Location ID:

391
Site 2


Penetration
Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 36 91.4 cm Bl. 3 cm

Compacted Depth: 79 cm

Compaction-Correction Factor: 0.97

45 cm core - 43.65 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0 cm</u>	<u>LDW20-IT 391</u>		<u>Silt, coarse sand, and gravel. No odor. Found some glass and wood debris</u>

7.57



Sediment Core Processing Form

Penetration

Project: AD04 - Duwamish

Core Type: Intertidal Subtidal Shoaling

Date: 6/24/2020

Recovery Depth: 36" → 91.4 cm

Processed By: RCINE

Compacted Depth: 84.5 cm

Location ID: 392

Compaction-Correction Factor: 0.92 cf

tier 1

60 cm core → 55.2 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0 cm</u>	<u>LDW20-SC392</u>		<ul style="list-style-type: none"> - medium sand, multi-colored, dark brown - barely moist - no odor - some cobbles (1)

Sediment Core Processing Form

Project: AOC4 - Downwornish
 Date: 6/22/20
 Processed By: _____
 Location ID: 400
Tier 2

Pre-Substratum

Core Type: (Intertidal) Subtidal Shoaling
 Recovery Depth: 31in → 78.7cm
 Compacted Depth: 76.5cm
 Compaction-Correction Factor: 0.972
45cm → 43.7cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes <small>(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</small>
0	0			dark brown
		LOW20-JT400		debris - ~1" rocks, woody debris (3-4")
				moist
				no odor
				silt w/ fine sand
78.7cm				

Sediment Core Processing Form

Project: AOCY - Duwamish

Date: 6/22/20

Processed By: RC/TA

Location ID: 401

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 35m → 88.9cm

Compacted Depth: 84cm

Compaction-Correction Factor: 0.945

45cm → 42.5cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p> <p>42.5</p> <p>83</p>	<p>LOW20-JT401</p>		<p>medium olive brown/grey</p> <p>slightly moist</p> <p>no odor</p> <p>silt w/ fine sand</p>

Sediment Core Processing Form

Project: ADCY-Duwamish
 Date: 012220
 Processed By: AF/HH
 Location ID: 406

penetration

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 20 in = 50.8 cm
 Compacted Depth: 46 cm
 Compaction-Correction Factor: 0.906
45 cm = 40.8 cm

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0m</p> <p>46cm</p>	<p>LOW20-IT406</p>		<p>Dark brown coarse sand and silt with trace gravel. No visible organic matter and no odor.</p>



Sediment Core Processing Form

Penetration

Project: AOC 4 - Duwamish

Date: 6/16/2020

Processed By: RL & LH

Location ID:

409
tier 1

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 44" → 111.8cm

Compacted Depth: 104cm

Compaction-Correction Factor: 0.93 cf

45cm core → 41.9cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p> <p>41.9 cm</p>	<p>LDW020-17409</p>		<p>dark gray no odor moist silt w/ fine sand</p>

Sediment Core Processing Form

Project: AOCY-DOWANISH

Date: 01/22/20

Processed By: AE/LH

Location ID: 410

T102

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 20m → 50.8cm

Compacted Depth: 42cm

Compaction-Correction Factor: 0.827

45cm → 37.2cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0cm</p>	<p>L0W20-IT410</p>		<p>Dark brown/black silt and coarse sand. Trace amounts of gravel and woody debris. No odor.</p>

Sediment Core Processing Form

Project: AOCY - Oowamish

Date: 6/22/20

Processed By: AE/LH

Location ID: 411

probation

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 18m → 45.7cm

Compacted Depth: 44.5cm

Compaction-Correction Factor: 0.974

45cm → 43.8cm

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	0cm	LOW20-IT411		Dark brown/black silt and coarse sand. Trace amounts of gravel no visible organic matter. No odor.



Sediment Core Processing Form

Project: AO04-Dowomish

Date: 6/23/2020

Processed By: RC, TA

Location ID: 415

her 1

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 10" → 45.7 cm

Compacted Depth: 44 cm

Compaction-Correction Factor: 0.96 CF

45 cm core → 43.2 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	<p align="center">Sample Description and Notes</p> <p align="center">(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</p>
	<p>0 cm</p> <p>43.2 cm</p>	<p>TDW20-17415</p>		<p>Silt with fine sand, dark brown, rust colored pockets pre-brominated, no odor, woody debris</p>

Sediment Core Processing Form

Project: AOC4-Duwamish

Date: 01/19/20

Processed By: AB-CM

Location ID: LIF

Hand core
Tier 2

penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 29cm

Compacted Depth: _____

Compaction-Correction Factor: _____

Target depth - 45 cm NA

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
0cm	29cm			<p>Brown-grey fine sand and silt. Heterogeneous mixture, large rock + brick fragments (~5cm Ø) clumps of orange-brown fine sediment. trace organic matter (stick)</p> <p>Moist, clumpy textures</p> <p>trace biota (worm)</p>

7:49



Sediment Core Processing Form

Project: ADU 4 - Duwanish

Date: 6/17/2020

Processed By: RC & AE

Location ID:

418 - used sediment in tier 1 core fingers

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 18" → 45.7 cm

Compacted Depth: 44 cm

Compaction-Correction Factor: 0.96 CF

45 cm core → 43.2 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0cm</p> <p>43.2 cm</p>	<p>LDW70-IT418</p>		<p>[Material from fingers sampled.]</p> <p>Grey-brown silt with medium sand, coarse sand pebbles/gravel present, Trace shell frags.</p> <p>No odor, texture: moist, gritty</p> <p>Trace organic material (stick)</p>

10.29



Sediment Core Processing Form

Project: A004-Duwamish

Date: 10/16/2020

Processed By: AG + AZ

Location ID:
421
Tier 1

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 36" → 91.4 cm

Compacted Depth: 69.5 cm

Compaction-Correction Factor: 0.76 CF
45 cm core → 34.2 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm			
	91.2 cm	LD1020-1T421		Park brown silt with fine sand, wet trace woody material, No odor, gravel piece



Sediment Core Processing Form

Project: A004 - Downamish
Date: 6/17/2020
Processed By: ABRC
Location ID:
423
tier 1

Penetration
Core Type: Intertidal Subtidal Shoaling
Recovery Depth: 21" → 53.3 cm
Compacted Depth: 42 cm
Compaction-Correction Factor: 0.79
45cm core = 35.4 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<u>0cm</u> <u>35.6 cm</u>	<u>LDW20 - 1T423</u>		<u>Silt and coarse sand. Dark brown/black with slight H₂S odor and a wet consistency. Coarse organic matter present.</u>

8:05



Sediment Core Processing Form

Project: AOCY-Duwamish

Date: 6/17/2020

Processed By: CD & AZ

Location ID:

424
Her

Penetration

Core Type: (Intertidal) Subtidal Shoaling

Recovery Depth: 27.5" → 69.9 cm

Compacted Depth: 66.5 cm

Compaction-Correction Factor: 0.95 CF

45 cm core = 42.8 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	<p>0 cm</p> <p>42.8 cm</p>	<p>LDW20-17424</p>		<p>Silt w/ fine sand, moist, dark gray/black, trace woody debris, trace HES petroleum odor trace organic debris (sticks) ^{as little}</p>



Sediment Core Processing Form

Project: AOC4 - Duwamish
 Date: 6/17/2020
 Processed By: LO + AZ
 Location ID:
 425
 Rev 2

Penetration
 Core Type: (Intertidal) Subtidal Shoaling
 Recovery Depth: 24" → 61 cm
 Compacted Depth: 49.5 cm
 Compaction-Correction Factor: 0.81 CF
 45 cm core → 36.5 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0cm			
	36.5 cm	LDW20-1T425		Brown coarse sand with silt, wet Trace organic debris (sticks) - present AZ slight petroleum odor

B:15



Sediment Core Processing Form

Project: AOCY - Duwomish

Date: 6/17/2020

Processed By: AE+RC

Location ID:

426
Tier 1

Penetration

Core Type: Intertidal Subtidal Shoaling

Recovery Depth: 26.5" → 67.3cm

Compacted Depth: 62cm

Compaction-Correction Factor: 0.92

45cm core → 41.4cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes <small>(Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)</small>
	0cm	41.4 cm	LDW20-IT426	Silt and coarse sand mixed with gravel and a few pieces of cobble. No odor or visible organic matter.

Sediment Core Processing Form

Penetration

Project: ADC 4 - Duwanish
 Date: 6/17/2020
 Processed By: CO + AZ
 Location ID: 427
 HLRZ

Core Type: Intertidal Subtidal Shoaling
 Recovery Depth: 23" → 58.4 cm
 Compacted Depth: 48 cm
 Compaction-Correction Factor: 0.82 CF
 45 cm core → 36.9 cm (CF)

Recovery Depth	Collection Depth	Sample ID	Other	Sample Description and Notes (Sediment type, moisture, color, minor modifier, MAJOR modifier, other constituents, odor, sheen, layering, anoxic layer, debris, plant matter, shells, biota)
	0 cm	LDW20-17427		<p>Brown coarse sand, some silt. damp-dry faint marine odor. Very low adhesion, low plasticity. debris, anthropogenic (glass)</p>

36.9 cm

2 06.01.20

TDo

0030 Arrive at South Park Reserve.
 TDo, meet up w/ B. Runkel.
 0045 A. Vandeventer, K. McReel, S. McErdely arrive.
 0050 J. Schaefer, E. Parker arrive
 0055 Lenny Vanderveuten (LD) arrives.
 0060 Hal Peterson arrives.
 0915 F. Jenkins arrives, loads supplies
 location: clear, 55°F, COVID
 0930 Haulie & safety briefing + scan.
 0950 Load eqpt/supplies, prep boat.
 0950 Boat specific H&S briefing, continue prep, disinfect boat.
 0945 Depart marina (K. McReel, TDo, J. Schaefer, F. Jenkins) Head to SC101
 0900 Arrive at SC101
~~1037~~
 1037 Core collected
 1054 Depart for SC102
 1058 Arrive at SC102
 1110 Core collected
 1123 Depart for processing boat.
 1129 Arrive at Boat and transfer cores & paperwork. Give processing crew processing demonstration.

06.01.20

TDo 3

1145 Haulie break
 1214 Depart for TT105
 1218 Arrive at IT105
 1246 Core collected.
 1302 Depart for IT106
 1303 Arrive at IT106
 1351 ~~Depart for~~ 3 attempts made, all no/low recovery %.
 1 Dept 2 for possible processing. 1 had 0.72% recovery, but 12ft off target & 1 had 2.62% recovery but 8 ft off target. (Recovery 10 action).
 Depart for SC109
 1354 Arrive at SC109, transfer cores to that to deliver to processing crew.
 1410 Core collected.
 1425 Depart for SC113
 1430 Arrive at SC113
 1441 Core collected
 1449 Depart for processing Boat
 1453 Arrive at Boat, transfer cores and paperwork.
 1510 Depart Boat, dispose of waste

4 0601:30

TDO

sediments at collection sites.
 1528 Arrive ~~at~~ head back to marina.
 1538 Arrive at marina.
 1545 Leave marina. End of
 on-water day.
 1550 Check marina office to talk
 to manager about sampling
 locations w/in marina. Marina
 office closed due to COVID.
 1600 Depart marina.

[Signature]
 0601:30

0602:20

TDO

0602 Arrive at South Park Marina.
 50°F, partly cloudy. TDO.
 Update paperwork, plan for
 field day.
 0635 R. McPeak arrives. (WV)
 0645 Meet up w/ Gunitig
 P. Jenkins & D. Schaefer.
 Load boat
 0650 Health & Safety briefing.
 Lenny Vanderhousen (KID)
 0700 Susie called, we have to
 resample 101, 102 & 105 today.
 0715 Depart marina
 0736 Arrive at IT105, very shallow, will
 return later
 0741 Arrive at IT106
 0746 Collect IT106 attempt 4 (3 attempts
 on 6/1/20), acceptable core
 0756 Depart IT106
 0758 Arrive SC101 (resampling this location
 due to processing error)
 0832 collect core @ SC101
 0841 Depart SC101
 0843 Arrive SC102 (resampling due to
 processing error)
 0905 collect acceptable core @ SC102

Return to the Boat

6 06.02.20

K. McPeak

- 0914 Depart SCI02
- 0917 Arrive SCI17
- 0919 Collect acceptable core @ SCI17
- 0926 Depart SCI17
- 0928 Arrive SCI21
- 0942 Collect acceptable core @ SCI21
- 1037 Depart SCI21
- 1040 Arrive SCI23
- ~~1047~~ 1047 Collect acceptable core @ SCI23
- 1055 Depart SCI23
- 1057 Arrive SCI25
- 1059 Collect acceptable core @ SCI25
- 1110 Depart SCI25
- 1112 Arrive IT105
- 1132 Collect acceptable core @ IT105
- 1135 Depart IT105
- 1139 Arrive processing float to deliver cores
- 1202 Depart float to dispose of sediment from processed cores
- 1216 Arrive South Park Marina to pick up supplies for Gremity
- 1236 depart marina to continue sampling
- 1242 Arrive IT127
- 1328 Collect core @ IT127, recovery low (57.5%)

but attempted 5 times. Talked to S McGrody - will keep core and decide now to process after discussion w/ team

6.02.20

K. McPeak
TMD

- 1340 Depart IT127
- 1346 Arrive SCI30
- 1351 Collect core @ SCI30
- 1357 Depart SCI30 for processing float to deliver cores
- 1403 Arrive processing float
- 1411 Depart processing float, dispose of left over sediment
- 1425 Recv South Park Marina locations
- ~~1437~~ 1450 Peak at South Park Marina
- 1500 Depart marina. End of on-water field day.

~~IT127~~
06.02.20

8
06.03.20

TDP

0615 Arrive at SPH. Partly cloudy, 53°F.
 0630 J. Schaefer & P. Jenkins arrive,
 (Gravity?); prep boat, disinfect
 0635 K. Weber (WD) arrives
 0700 H+S briefing w/ Lenny Vander
 Howden (KC)
 0715 Depart SPH
 0726 Arrive IT133
 0736 Collect core @ IT133
 0744 Depart IT133
 0747 Arrive ¹⁴SC135 IT139, tide too low -
 return later
 0750 Arrive SC140
 0751 Collect core @ SC140
 0802 Depart SC140
 0815 Arrive IT146, tide too low -
 return later
 0816 Arrive SC142
 0818 Collect core @ SC142
 0827 Depart SC142
 0831 Arrive SC144, too shallow - return later
 0838 Arrive SC150
 0842 Collect core @ SC150
 0902 Dispose of leftover sediment
 0915 Arrive SC156
 0928 Collect core @ SC156

06.03.20

K. M. P. 2020

0938 Depart SC156
 0941 Arrive SC162
 0944 Collect core @ SC162
 0955 Depart SC162 for processing float
 1002 Arrive processing float to unload cans,
 clean + construct core tubes
 1105 Depart float to dispose of leftover
 sediment
 1118 Arrive SC135
 1124 Collect core @ SC135
 1134 Depart SC135
 1139 Arrive SC202
 1142 Collect core @ SC202
 1151 Depart SC202
 1153 Arrive SC203
 1214 Collect core @ SC203
 1221 Depart SC203
 1225 Arrive SC211
 1242 Collect core @ SC211
 1252 Depart SC211 to dispose of leftover
 sediment
 1312 Arrive SC144
 1315 Collect core @ SC144
 1324 Depart SC144
 1329 Arrive IT139
 1331 Collect core @ IT139

Return on 20.03.20

10.06.03.20

K. McBeck

1340 Depart IT139
 1342 Arrive IT151
 1346 Collect core @ IT151
 1356 Depart IT151
 1359 Arrive IT146
 1402 Collect core @ IT146
 1407 Depart IT146 for processing float to deliver core
 1414 Arrive float
 1428 Depart float to dispose of leftover sediment
 1445 Arrive SPM
 1500 Depart marina. End of on-water day.

~~TD~~
 09:03:00

06.04.20

TD 11

0915 Arrive at 5 P.M. T.D. (lead) DRYCART, SCS.
 0930 Generating annexes, (J. Schaefer & P. Jenkins). Set up boat load supplies. Disinfect surfaces. Chad Dward (CWD) annexes.
 0955 Leaving Vanderhooven (KID) annexes. IT'S briefing + COVID-19.
 0720 AT SC165
 0750 Core SC165 collected.
 0809 Heading to SC168
 0825 Leaving SC168
 0842 Arrive core SC161
 0848 Leaving SC161
 0849 Core SC161 collected
 0853 Arrive SC164
 0854 Core SC164 collected
 0905 Core SC167 collected
 0927 Transferred cores to Hal
 0934 Collected SC169
 0937 Leaving SC169
 1013 leaving dock
 1020 Arrive SC214
 1022 collected SC214 1st attempt
 1037 collected SC214 and attempt washout

Return on Row

06.04.20

TB

1043 3rd attempt, 25 in, rejected
1045 Called Susie. Talked about

keeping this core at 7470
recovery. Soft unconsolidated
material at surface, preventing
material to stay in cores.
This one was good and has
not compacted much. Will
press pending approval

1105 collected core IT 23a

1130 collected core SC 318

1131 Leaving SC 318

1136 Heading to Bridge (Oxbow)

1145 Take bridge clearance
measurements to make sure
our boat can fit under bridge.

1155 Head downstream to drop off
cores to processing area.
1229 Drop off cores, pickup empty
core tubes, pickup buckets

1238 Begin building cores while next to
processing barge

1312 Head back to South Park Marina to
collect core samples

1322 Arrive at SC 200

1324 Collected core IT 200 Attempt 1

06.04.20

TB

1333 Collect core IT 200 Attempt 2

1337 Leaving IT 200

1347 Transferred core IT 200 Attempt 2 to
Kyle

1355 Leaving ~~IT 200~~ IF SC 159 159

1354 collect core SC 159

1402 Arriving at SC 159

1404 collect core SC 159

1418 Transferred cores SC 159 and SC 154
to Kyle with paper work

1420 Head back to SPM

1425 Arrive SPM offload.

1430 Depart marina. End of
on-water work.

TB

060520

T.D.D

0445 Arrive at SPM. (T.D.D. - wind).

how SO's - p.tly cloudy.

Prep to meet surface grad crew @

0530 Go purchase ice.

0500 Return to SPM.

0530 Meet up with RSS crew.

See RSS crew logbook.

0715 Depart RSS boat, meet up

w/ crew Durand, (crew)

and J. Slaughter & P. Jenkins

(crews). Meet up w/ L.

Vander Houwen (CO)

0725 F&S briefing + Q&A ID screen.

0730 On boat. Head to SC169

to resample core, to stay

out of T117 EVA,

0736 At SC169

0736 Collected log

0806 Send coordinates to Crews.

0811 Depart SC169 to gust dock

to transfer core to process

crew

0811 Leaving CD

0832 Left Dock after transferring core

0839 Arrived at IT15

0842 Collected core IT15

06/05/20

C. Durand

0851 Arrive at IT224

0854 Collected IT224

~~0908~~ 0902 Headed to IT228

0905 Arrived at IT228

0906 Depart IT228 (too shallow)

0911 Arrived at IT240

0912 Collected core IT240

0914 Depart IT240 Headed to Marina

0925 At Marina waiting for Kyle (courier)

to transfer cores

0930 Transferred IT215, IT224, IT240

to Kyle

0936 ARI picked up 2 coolers with

samples from yesterday evening.

0952 Depart Marina headed to IT247

1002 Arrived at IT247

1003 Collected core IT247

1008 Arriving at IT248

1009 Depart IT248 (too shallow)

Note: IT253 needs to be accessed

during high tide to get behind barges

Note: IT272 is blocked by a barge

1032 Collected IT310

1038 Departed IT310

Note: SC322 is under barges

1045 Arrived at SC322

1045 Collected SC322

16 06/05/30

C. Durand

1054 Arrived at SC 336

1054 Collected SC 336

1106 Transferred IT347, IT 310, SC332 and SC 336 to Kyle (courier)

1111 Headed to IT 361 or IT 365

1117 Arrived at SC IT 361 (too shallow)

1120 Arrived at IT 365

1133 Collected IT 365

1130 Arrive at tie off location at barge

1230 Leave tie off location after building core tubes.

1238 Arrived at SC 368

1231 Collected SC 368 Attempt 1

1237 collected SC 368 Attempt 2

1248 collected SC 368 Attempt 3

1256 ^{DP}

1250 Transferred 8 IT 365 to Kyle

1302 Depart SC 368

1304 Arrived at IT 361

1306 collected IT 361

1312 Depart IT 361 ^{DP}

1316 Transferred IT 361 to Kyle

1330 End of Day Reference location

1335 Arrived at Warm slip location.

1345 Depart End of Day - water being

06.05.20

06.08.20

T. Do 17

0600 Arrive at SPA. T. Do (lead).

SO's. pthy cloudy.

0636 Evaluate anchors - J. Schaefer & P. Jenkins. Lead supplies -

0645 C. Durand arrives.

0700 Lenny Vander Hoven (lead) arrives. HTS briefing + 0615-16

screening

0737 Depart dock.

0742 Reference location

0752 Arrived at SC 148

0800 collected SC 148 Attempt 1 - rejected

0817 collected SC 148 Attempt 2 - rejected

0841 collected SC 148 Attempt 3

0904 Thai called Susan McRuddy about first 3 attempts. Direction is to make

more attempt at this location (SC 148).

0921 collected SC 148 Attempt 4 - rejected

0953 Transferred SC 148 to boat courier

(left att. #3)

1002 Head to SC 155

1005 Arrived at SC 155

1014 collected SC 155 Attempt 1

1046 collected SC 155 Attempt 2 after reposition.

1103 Arrived at SC 166

1118 Transferred SC 155 to boat courier

06.08.20

06/05/20

CDurand

- 1135 Collected SC 166 Attempt 1
- 1213 Collected SC 166 Attempt 2
- 1237 Collected SC 166 Attempt 3
- 1306 Transferred SC 166 to boat courier
- 1325 Arrived at SC 204 Kyle
- 1337 Collected SC 204 Attempt 1
- 1349 Collected SC 204 Attempt 2
- 1406 Collected SC 204 Attempt 3
(did not keep any Attempts)
- 1424 Depart SC 204
- 1438 Collected SC 208
- 1450 Depart SC 208
- 1500 Transferred SC 208 to Kyle
- 1505 Reference location
- 1515 Arrive at SPN 202
- 1530 Depart morning end of on-water day.

[Signature]
06/05/20
TDD

06.09.20

TDD

- 0600 Arrive at SPN - Train Do (over)
- SD's, light rain.
- 0630 Garity arrives - J. Schaefer, P. Jenkins
- 0635 Prep local, load supplies, disinfect.
- 0659 Chris Durand (end) arrives.
- 0710 Lenny Vander Houwen (K) arrives
- 0715 H/S briefing + COVID screen.
- 0720 Head upriver
- 0732 GPS Reference location
- 0747 Arrived at IT 354
- 0753 Collected IT 354
- 0801 Arrived at IT 356
- 0803 Collected IT 356
- 0809 Arrived at SC 362
- 0813 Collected SC 362
- 0825 Arrived at IT 363
- 0826 Collected IT 363
- 0834 Arrived at IT 364
- 0834 Collected IT 364 Attempt 1
- 0843 Collected IT 364 Attempt 2
- Collected IT 365 Attempt 3
- 0902 Collected IT 357
- 0916 Transferred IT 354, IT 356, SC 362
IT 363 and IT 357 to Kyle
- 0924 Collected SC 355
- 0931 Collected SC 337

[Signature]

20 06/09/20

CDurand

- 0938 Collected SC335 Attempt 1
- 0942 Collected SC335 Attempt 2
- 0953 Collected IT 364 Attempt 4
- 1020 Transferred SC355, SC337, SC335, and IT364. Then building tubes after transfer.
- 1055 Collected IT369
- 1102 Collected IT372
- 1104 Collected IT377
- 1125 Transferred IT369, IT372, and IT377 to Kyle
- 1155 Check clearance at bridge upstream from ~~392~~ ³⁹² and 393 for future reference. Collected SC381 Attempt 1 (tipped over) - will try SC381 during slack tide
- 1208 Collected IT379 Attempt 1
- 1216 Collected IT379 Attempt 2
- 1235 Done collecting samples for the day
- 1242 GPS reference check
- 1250 Transferred core to Kyle. AT SPM
- 1300 Depart marina. End of on-water day.

[Signature]
 TDD
 06-09-20

06/10/20

TDD 21

- 0545 Arrive at SPM. TDD (wind) 50's, overcast. Prep paperwork.
 - 0600 Greeting arrivals (P. Jenkins & J. Schaefer) Prep boat, supplies, eqpt.
 - 0620 C. Duward (lead) arrives.
 - 0635 H/S briefing + CDD screen (ref to Kate's logbook for records)
 - 0645 Prep boat
 - 0706 GPS Reference location
 - 0719 Arrive at and collect IT364
 - 0722 Attempt 5
 - 0745 Arrive at and collect IT224 Attempt 2
 - 0752 Collected IT224 Attempt 2 3 4
 - 0808 Collected IT224 Attempt 4
 - 0800 Thai arrives on Boat 1
 - 0834 Arrived at ~~and collected~~ IT324
 - 0840 Collected IT334
 - 0849 Collected ~~for~~ SC333
 - 0854 Transferred IT364, IT224, IT334 and SC333
 - 0908 Collected IT359
 - 0923 Collected IT374
 - 0941 Collected IT373
 - 0949 Collected IT375
- Transferred IT359, IT374, IT373, and IT375 to Kyle.
- [Signature]*
 TDD
 06-10-20

[Signature]
 TDD
 06-10-20

06/10/20

C Durand

- 1002 checked clearance at Oxbow bridge for future reference
- 1051 Collected SC 238
- 1133 Transferred SC 238 to Kyle
- 1149 Collected IT 228
- 1208 Collected SC 235
- 1235 Collected SC 250
- 1247 Transferred IT 228, SC 235, and SC 250 to Kyle
- 1334 Collected IT 244
- 1338 Transferred IT 244 to Kyle
- 1345 GPS Reference site
- 1350 Arrive at Manning
- 1410 Depart Manning. End of on-site day.

[Signature]
06.10.20

06.10.20

TJ Dees

- 0345 Arrive at SMU - Thru DO (COVID) Prep prep work. Plan for day. WO's, breast.
- 0405 Brantly arrives: J. Schaefer & P. Jenkins prep boat/eggs/samples.
- 0420 C. Durand (CO) arrives.
- 0430 Lenny VanderHouwen arrives (C)
- 0435 H&S brief + COVID screening.
- 0455 Depart Manning
- 0455 GPS Reference location
- 0716 Collected IT 248 Attempt 1
- 0721 Collected IT 248 Attempt 2
- 0736 Collected IT 252
- 0746 Collected IT 253 Attempt 1
- 0752 Collected IT 253 Attempt 2
- 0802 Collected IT 263
- 0810 Collected IT 272
- 0855 Transferred IT 248, IT 252, IT 253, IT 263, and IT 272 to Hal
- 0900 Collected SC 269
- 0930 Collected SC 261
- 1013 Collected SC 255
- 1030 Transferred SC 269, SC 261, and SC 255 to Hal
- 1151 Collected SC 245
- 1218 Collected SC 271

24 06/11/20

C. Durand

1227 Collected SC273

1238 Collected SC268 Time = 1238
IT

1245 Transfer SC245, SC271, SC273

and IT268 to Hal

1300 GPS Reference site

1305 Arrive at Marina

1315 Depart marina. End of on-water day

~~Handwritten signature and scribbles~~

06.11.20

06.12.20

25

0545 Arrive at SPN (Thu Dec - Wed)

0605 Arrive at SPN (Thu Dec - Wed)
CBE, cloudy, work on preparation
Gravity divines (S. Schaefer & P. J. J. J.)
Prep boat/eqpt & supplies,
Disinfect common touch surfaces

0620 Check Durand (CUB) cameras

0625 Leave Vander-Houwen (CUB)

0633 H/S briefing + COVID screen

0655 Depart Marina

0700 GPS Reference location

0722 Collected IT257

0731 Collected IT258

0741 Collected IT266

0807 Collected SC230

0829 Collected SC223

0845 Transferred IT257, IT258, IT266,
SC230, and SC223 to Hal.

0858 Collected SC222

0923 Collected SC220

0946 Collected SC219

1005 Arrived at Marina but could not sample
SC160

1020 Transferred SC222, SC220, and
SC219 to Hal.

1025 Departed Marina

1050 Collected SC217 Attempt 1

1056 Collected SC217 Attempt 2

Return to Base

06/12/20 C. Durand
 1110 collected SC 317 Attempt 3
 1122 collected SC 317 Attempt 4
 1141 Departed SC 317 to SC 381
 1156 Arrived at SC 381
 1200 collected SC 381 Attempt 2
 (previous attempt on 6/9/20)
 1209 collected SC 381 Attempt 3
 1219 collected SC 381 Attempt 4
 1238 Departed SC 381
 1245 Transferred SC 317 to Hal
 1306 collected SC 312
 1320 GPS Reference site
 1325 Transferred SC 312 to Hal
 1345 Arrived at Marmy. offload.
 1400 Depart SPN. End of on-water day.

~~06:30~~

06:15:00

TDB 27

0550 Arrive at SPN (TDB - word)
 Meet up w/ Emily (T. Schneider & M. Duffield), light rain, 50's.
 set up boat/capt.
 Chad Durand arrives (Lid) arrives
 0625 Lenny VanderHouwen (Lid) arrives
 0635 H/s briefing + covid screen
 0640 Depart Marmy
 0645 GPS Reference Site
 0708 collected SC 339
 0718 collected SC 340
 0724 collected SC 342
 0735 collected SC 346
 0742 collected SC 343
 0750 Depart slip 6
 0815 Arrived at processing float and transferred SC 339, SC 340, SC 342, SC 346 and SC 343
 0825 Depart processing float
 0852 Arrived at slip 6.
 0856 collected SC 345
 0902 collected SC 349 Attempt 1
 0910 collected SC 349 Attempt 2
 0915 Transferred SC 345 and SC 349 to Kyle
 0927 collected SC 348

06-15-20

C Durand

- 0934 Collected SC353
 0940 Collected SC351
 0945 Departed Slip 6
 1000 Transferred SC351, SC353, and ^{CD} SC348 and ^{CD}
 1012 Collected SC160 Attempt 1
 1034 Collected SC160 Attempt 2
 1041 Collected SC160 Attempt 3
 1100 ^{for} Thai spoke to Susie, unable to ~~see~~ collect sample to target depth, Susie recommended using 32 feet radius to sample just upstream or down stream of the target (parallel to shoreline). We moved the boat away from the marina to avoid being too close to boats but are still within 32 feet radius,
 1129 Collected SC160 Attempt 4
 1139 Transferred SC160 to Kyle
 1145 Departed Marina and SC160
 1205 Arrived at SC 210
 1215 Collected SC 210 Attempt 1
 1223 Collected SC 210 Attempt 2
 1230 Collected SC 210 Attempt 3
 1239 Collected SC 210 Attempt 4
 1252 Transferred SC 210 to Kyle

06-15-20

C Durand

- 1306 Arrived at SC 204. We made 3 previous attempts at this site and hit ^{at} refusal and wood debris at approximately 4 feet. Thai spoke to Susan McGoddy. Next attempt can be within the 32 feet radius but out side of the Recovery Category 1 area.
 1315 Collected SC 204 Attempt 4
 1327 Collected SC 204 Attempt 5
 (made a little deeper into the channel for attempt 5).
 1342 Transferred SC 204 to Kyle.
 1400 Dispose of sediment at Slip 6 locations.
 1405 Depart Slip 6
 1420 GPS Reference Site
 1425 Arrive at South Park Marina.
 1430 C. Durand departs
 1445 Meet up w/ Kyle for transfer of equipment/binders for Remy for tomorrow.
 1500 Depart marina. End of on-water day
~~CD~~
 061520

06-16-20

TDD

0540 Arrive at SPH, TDD (Luis)

SD's, showers. Prep for

sampling day.

0605 Gravity arrives (T. Schwefer)

M. Dupire (D). Set up and prep

boat, eqpt, & supplies.

0610 Discin first surfaces.

0616 C. Durand (Cid) arrives

0630 Henry Vander-Hoven (VH) arrives

0640 HTS briefing + COVID screening

0650 Depart Marina

0655 GPS Reference Site

0707 Arrived at Dunlavin Yacht Club

0730 Collected SC 334 Attempt 2

0715 Collected SC 334 Attempt 1

0732 Collected SC 335 Attempt 1

0740 Collected SC 335 Attempt 2

0750 Collected SC 336

0802 Collected SC 337

0813 Collected SC 338

0823 Collected SC 339

0832 Collected IT 332

0847 Transferred SC 334, SC 335, SC 336, SC 337,

SC 338, SC 339 and IT 332 to Kyle

0916 Collected SC 368 Attempt 4

0951 Collected SC 381 Attempt 5

06-16-20

C Durand

1010 Transferred SC 368 and SC 381 to Kyle

1039 Collected IT 421

1036 Collected IT 409

1055 Transferred IT 421 and IT 409 to Kyle

1129 Collected IT 330

1134 Collected IT 331

1154 Collected IT 387

1201 Collected IT 388

1208 Collected IT 389

1219 Collected IT 390 Attempt 1

1238 Transferred IT 330, IT 331, IT 387,

IT 388, and IT 389 to Kyle

1242 Collected IT 390 Attempt 2

1258 Collected IT 390 Attempt 3

1303 Collected IT 390 Attempt 1

1310 Collected IT 391 Attempt 2

1322 Collected IT 391 Attempt 3

1337 Transferred IT 390 and IT 391 to Kyle

1403 GPS Reference Site

1410 Back at Marina.

1415 End of on water day.

1430 Meet up w/ Remy from

your boat. Help with SC

samples

1500 Depart. End of field day.

TDD 06-16-20

32
06-17-20

TBD

0540 Arrive at SPN, (Thai 10-100)

Prep for day. SDs, phy cloudy.

0605 Gravity runs (J. Scaife & W. D. Field)

0610 Prep boat, equipment, & supplies.

Disinfect boat surfaces & tools

& supplies.

0623 e. Durand (CUD) arrives

0627 Jenny Vanderhouven (VJ)

arrives.

0630 H/S briefing + COVID screening.

0635 Depart morning

~~0640~~
0644 GPs Reference Site

0732 Collected IT 416

Collected IT 417 Attempt 1

0744 Collected IT 417 Attempt 2

0749 Collected IT 418

0755 Collected IT 423 Attempt 1

0758 Collected IT 423 Attempt 2

0805 Collected IT 424

0815 Collected IT 426

0824 Collected IT 425 Attempt 1

0826 Collected IT 425 Attempt 2

0833 Collected IT 427

0850 Transferred IT 416, IT 418, IT 423, IT 424,

IT 426, IT 425 and IT 427 to Hal

0913 Collected SC 370

06-17-20

Durand

33

0924 Collected SC 380 Attempt 1

0931 Collected SC 380 Attempt 2

0942 Collected SC 380 Attempt 3

0952 Thai spoke to Susan, unable to collect SC 380

in three attempts within 10 feet radius.

Susan requested attempting again just

north of down stream from the target staying

within 30 feet radius and within

Recovery (later) area.

1002 Collected SC 380 Attempt 4 (No success)

1012 Collected SC 380 Attempt 5 (No success)

1025 Collected SC 380 Attempt 6 (No success)

1058 Transferred SC 370 to Hal

1146 Collected SC 366

1155 Collected SC 314

1208 Collected IT 367

1215 Collected IT 371 IT

1220 Transferred SC 366, SC 314, SC 367,

and IT 371 to Hal

1236 Collected IT 419

1241 Collected IT 417 Attempt 3

1244 Collected IT 417 Attempt 4 (No success)

1313 Collected IT 386

1319 Collected IT 385

→ 1323 Collected IT 382

1330 See note about IT 382 on next page.

06-17-20

Durand

1330 Transferred IT 419, IT 386, IT 385, and IT 382 to Hal

~~1330~~ / ~~1330~~ Train spoke with Susan about IT 382. The target was within a vegetated area. Susan directed us to sample from within the mudflat waterward of the target. Per GPS collection occurred 82 feet from target.

1350 GPS Reference site

1355 Arrived at South Park Marina

1415 Depart marina. End of on-water day.

[Handwritten signature]
06.17.20

06.18.20

IT 260

0540 Arrive at SP4 (IT 260 - W) high 50's, sunny. Prep paperwork and plan for day. Gravity ankers (T. Schaefer & M. DuField). Prep boat, eqpt. and supplies.

0600 Disinfect boat surfaces and tools, etc.

0625 Check Durand (W) arrives. Leavey Vanderhouwen (W) arrives. It's briefing + COVID screening.

0646 GPS Reference site

0733 Collected IT 417 Attempts (No success)

0750 Collected IT 378

0756 Collected IT 376

0814 Collected IT 358

0837 Collected IT 315

0833 Collected IT 305

0842 Collected IT 267 Attempt 1

0847 Collected IT 267 Attempt 2

0854 Collected IT 260 Attempt 1

0859 Collected IT 260 Attempt 2

0905 Transferred IT 378, IT 376, IT 358 IT 315, IT 305, IT 267 and IT 260 to Hal

0921 Collected SC 249

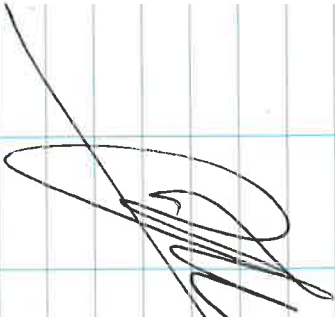
0940 Collected SC 254

Return to Base

06-18-20

Dunand

- 0956 Collected SC 26A
 1010 Transferred SC249, SC254, and SC26A to Hal
 1025 Collected SC265
 1113 Collected SC 270
 1130 Collected SC 246
 1139 Transferred SC265, SC 270, and SC246 Hal
 1230 Collected IT 360
 1253 Transferred IT 360 to Hal at the processing float
 1258 GPS Reference Site
 1300 Arrived at Marina
 1310 Depart SPN. End of on water day


 06-18-20

06.19.20

TID 37

- 0545 Arrive at SPN (T. De-wind)
 WD°, Pthy cloudy. Prep paperwork, plan for day.
 0605 Gravity arrives (J. Schuler & Mike Bufield). Prep boat, eqpt, and supplies.
 0615 Disinfect boat surfaces/hoists.
 0620 Chad Dunand (COO) arrives
 0625 Lenny Vander Houwen (CEO) arrives.
 0630 Conduct HS briefing w/ David screening.
 0642 Depart Marina
 0645 GPS Reference site
 0657 Evaluated access to IT383 and IT384 but decided to collect later with 10+ feet high tide
 0717 Collected IT 319
 0728 Collected ~~IT 256~~ IT 259
 0736 Collected IT 256
 0743 Collected IT 233
 0748 Collected IT 229
 0757 Collected IT 239
 0820 Collected IT 417 and SS 417. Both were collected with buoys and spoon. IT 417 collected down to ~~29cm~~ 29cm per EPA discussion.

06-19-20

CDurand

- 0850 Transferred IT 319, IT 259, IT 256, IT 233, IT 229, IT 239, IT 417, and 55417 to Hal
- 0843 Collected SC 380 Attempt 7
- 0905 Collected SC 380 Attempt 8
- 0933 Collected SC 380 Attempt 9 (No success)
- 0910 Received a call from Susan to resample surface grab at 329.
- 0920 Thai called Remy to tell him to resample surface grab at 329.
- 1003 Collected SC 242
- 1037 Collected SC 241
- 1053 Transferred SC 242 and SC 241 to Hal
- 1108 Collected SC 237
- 1125 Collected SC 234
- 1140 Transferred SC 237 and SC 234 to Hal
- 1152 Collected SC 231
- 1209 Collected IT 227
- 1219 Collected IT 218
- 1225 Transferred SC 231, IT 227, and IT 218 to processing float.
- 1236 Collected IT 221
- 1244 Transferred IT 221 to processing float.
- 1248 GPS Reference site
- 1251 Arrived at South Park Mariny
- 1300 Depart marina. End of 2nd water day

~~IT 218~~
06:19:20

06:22:20

TIDE

- 0545 Arrive at SPN (T:DD-WD).
bD, sunny. Prep for sampling.
- 0600 Gravity arrives
Prep boat/eqpt/supplies & disinfect surfaces & tools.
- 0620 Check Durand (CID) arrives
Leaving Vandon Haven (CIE)
- 0625 arrives. 4th S knife + band screen
- 0640 Depart Marina
- 0648 GPS Reference site
- 0713 Collected IT 301
- 0720 Collected IT 302
- 0729 Collected IT 306
- 0735 Collected IT 309
- 0740 Collected IT 312
- 0745 Collected IT 316
- 0752 Collected IT 320
- 0757 Collected IT 323
- 0811 Collected IT 308
- 0825 Transferred IT 301, IT 302, IT 306, IT 309, IT 312, IT 316, IT 320, IT 323, and IT 308 to processing float
- 0835 Arrived at South Park Mariny
- 0850 Departed South Park Mariny
- 0920 Collected IT 400
- 0927 Collected IT 401

Return on Run

06-22-20 C Durand

0934 Collected IT 406 Attempt 1

0940 Collected IT 406 Attempt 2

0946 Collected IT 406 Attempt 3

0955 Collected IT 410 Attempt 1

1001 Collected IT 410 Attempt 2

1008 Collected IT 410 Attempt 3

1013 Collected IT 410 Attempt 4

1035 Collected IT 411 (Grab + tube from shore) and SS 411

1040 Transferred IT 400, IT 401, IT 406, IT 410, IT 411, and SS 411 ^{Not up}

1110 Collect SC 392 (Attempt 1 - ~~not~~ successful) will return to SC 392 during morning tide when river outflow will be less,

1148 Collect SC 395

1212 Collect SC 316

1225 Transfer SC 395 and SC 316 to processing float

1319 Collected SC 306

1330 Transferred SC 306

1337 GPS Reference Site

1350 Arrived at south Park Mariny

1400 Depart SPN. End of on-water day.

TD
06.22.20

06.23.20

TD
41

0445 Arrive at SPN. (TD - WVD)

0520 BO's, sunny. Prep for day. Crew Durand (Cid) arrives

0528 Leanny VanderHoven (Lid) arrives

0530 Gravity amms (P. Jenkins & Mike Duffield) ~~arr~~

0532 W/S bagging + COVID screening

0535 Prep boat, eqpt, supplies & disinfect boat surfaces, tools, etc.

0542 Depart Marina

0549 GPS Reference Site

0606 Collected IT 384

0615 Collected IT 383

0635 Collected IT 380 SC 380 Attempt 10

0648 Collected SC 380 Attempt 11

0714 Collected SC 380 Attempt 12 (success)

0744 Collected IT 321 Attempt 1

0756 Collected IT 321 Attempt 2 (No success)

0807 Collected IT 317 Attempt 1

0818 Collected IT 317 Attempt 2 (success)

0830 Collected IT 313 Attempt 1

0843 Collected IT 313 Attempt 2 (success)

0850 Transferred IT 384, IT 383, SC 380, IT 317, IT 313

0900 Collected IT 304 Attempt 1

0914 Collected IT 304 Attempt 2 (success)

TD
06.23.20

06-23-20

CDurand

0931 Collected IT321 Attempt 3 (Success)

0947 Collected IT311

0954 ~~Collected IT307~~ Too shallow to

Collect IT307

0955 Depart IT307

1016 Collected IT415

1020 Collected SS415

1036 Transferred SS415 to the Carolyn Dew

(RSS - Boat #2)

1043 Transferred IT321, IT311, and IT415 to Kyle

~~Determined that the form for IT304 was not UD~~

1127 Collected SC209

1150 Collected SC207

1200 Transferred SC209 and SC207 to Kyle

1216 Collected SC213

1237 Collected SC205 Attempt 1

1247 Collected SC205 Attempt 2

1305 Collected SC205 Attempt 3 (Success)

1320 Transferred SC213 and SC205 to Kyle

1336 Collected SC201 Attempt 1

1348 Collected SC201 Attempt 2

1400 Collected SC201 Attempt 3 (No Success)

1415 Collected SC201 Attempt 4 (No Success)

1435 GPS Reference site

06-23-20

CDurand

1450 left boat at morning

1500 Depart marina. End of a winter

day

CDurand
06-23-20

- 06-24-20 C Durand
- 0610 Arrive at Mummy (Chad Durand), Gos and cloudy. Prep paperwork and disinfect area.
- 0630 Health and safety meeting. Lenny, Tracy, Pete, Mike
- 0635 Lenny arrives
- 0638 Tarek arrives
- 0640 Onboard safety review with Tarek
- 0650 Depart Wanda
- 0653 GPS Reference Site
- 0729 Collected SC392 Attempt 2
- 0757 Collected SC392 Attempt 3 (success)
- 0836 Collected IT307 Attempt 1 (No success)
- 0842 Transferred SC392 to Kyle
- 0900 ~~Collected IT300~~ Too windy for IT 300 at this time and tide
- 0922 Collected IT307 Attempt 2 (success)
- 0949 Collected IT303
- 1001 Transferred IT307 and IT303 to processing float
- 1020 Collected IT107
- 1032 Collected IT110
- 1050 Transferred IT107 and IT110 to Kyle
- 1115 Collected IT112 Attempt 1
- 1119 Collected IT112 Attempt 2 (success)
- 1126 Collected IT116

- 06-24-20 C Durand
- 1134 Collected IT120
- 1141 Transferred IT112, IT116 and IT120 to Kyle.
- 1158 Evaluated site IT300 but decided to return at between ~ 1.8 and 2.8 tide elevation.
- 1210 Collected IT124
- 1218 Collected IT137
- 1227 Collected IT145
- Collected SC141 Attempt 1
- 1243 Collected SC141 Attempt 2 (No success)
- 1249 Transferred IT124, IT137, and IT145 to Kyle
- 1257 Collected SC134
- 1303 Collected SC128
- 1325 Transferred SC134 and SC128 to Kyle
- 1337 Collected SC136 Attempt 1
- 1345 Collected SC136 Attempt 2 (success)
- 1353 Collected SC131
- 1407 Collected SC132
- 1415 Transferred SC136, SC131, and SC132 to Kyle
- 1424 Collected SC141 Attempt 3 (success)
- 1434 ~~Transferred~~ GPS Reference Site
- 1436 Transferred SC141 to Processing Float

06-24-20 ³⁴⁰⁰

Tarek and Chad dropped off at marina before Pete and Mike return Sediment

C Durand

~~Chad for
C. Durand
06-24-20~~

06-24-20 ⁰⁰

C Durand

0530 Tarek arrived at Marina

Graffy arrives (Pete Jenkins and Mike Duffield)

0615 Chad arrives. Disinfect working area and prep.

0630 Lenny arrives. Health and Safety Meeting and seeding.

0712 Depart Marina

0714 GPS Reference Site

0739 Collected IT 143 Attempt 1

0744 Collected IT 143 Attempt 2 (success)

0756 Collected IT 152

0804 Collected IT 5 SC149

0820 Collected ~~IT 5~~ SC126

~~0826~~ Collected SC138

0843 Transferred IT 143, IT 147, IT 152, SC149, SC126, and SC138 to Kyle

0855 Collected SC201 Attempt 5

0929 Collected SC201 Attempt 6

0946 Collected SC201 Attempt 7 (Success but without z-layer)

1022 Collected SC163 Attempt 1

1051 Collected SC163 Attempt 2 (No success)

1120 Transferred SC163 to Processing barge

1130 Collected IT300 Attempt 1

1138 Collected IT300 Attempt 2

1152 Collected IT300 Attempt 3 (success)

1207 Transferred IT300 to Processing Float

1223 Collected SC129 Attempt 1 (No success)

6-25-20

Edward

1343 Collected sc111

1253 Collected sc108

1300 Collected sc104

1305 Transferred sc111, sc108, and sc104 to Kyle

1312 Collected sc103

1321 Collected sc100

1329 Collected sc114

1335 Transferred sc103, sc100, and sc114 to Kyle

1340 Collected sc115

1358 Collected sc118

1406 Collected sc119

1412 Transferred sc115, sc118, and sc119 to Kyle

1421 Collected sc122

1434 Collected sc129 Attempt 2 (success)

1453 Transferred sc122 and sc129

1540 GPS Reference Site

1545 Arrived at Mining

1600 Depart 5 PM. End of on-water day.

Edward
6/25/20



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 - misdeed
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The *Rite in the Rain* story began a century ago in the forests of the Great Pacific Northwest. Entrepreneur Jerry Darling recognized the logging industry's need for a durable material that could be written on and survive in poor weather conditions. Jerry developed a special coating that created a unique moisture shield on the hand-dipped sheets of paper that he and his wife, Mary, processed at their home.

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2 06.26.20

TDD

- 0515 Arrive at SPRN (TWD to W22). 60's, sunny, prep for sampling day.
- 0545 C. Durrend (CU) arrives
- 0555 Gravity arrives (P. Jenkins & M. Dufreile), Lenny Vander Hoven (LC) arrives
- 0600 H/S brief + COVID screening
- 0610 Lacked out of marina, key fob malfunction. Contact HarborMaster.
- 0645 HarborMaster arrives.
- 0650 On boat, prep eqpt & disinfct
- ~~0652~~ 0652 Surfaces / tools, etc.
- ~~0652~~ Depart marina.
- 0657 GPS Reference site
- 0728 Collected SC153 Attempt 1
- 0738 Collected SC153 Attempt 2
- 0806 Collected SC153 Attempt 3
- 0820 Collected SC153 Attempt 4
- 0850 Transferred SC153 to Processing Float.
- 0905 Collected SC157
- 0920 Transferred SC157 to Processing Float
- 0937 Collected SC163 Attempt 3
- 0950 Transferred SC163 to Processing Float
- 1007 GPS Reference site
- 1010 Head ~~up~~ downriver to dispose

06.26.20

TDD

3

- of waste sediment.
- 1030 Meet up w/ float crew for processing update.
- 1040 Head back to marina
- 1045 Arrive at marina. Depart for field storage facility to prep for grabs next week.
- 1100 At spray unit. Inventory surplus.
- 1130 Depart storage unit. C. Durrend heads home. TDD heads back to marina to help processing crew wrap up.
- 1145 At SPRN.
- 1200 On buoy boat. Head to processing float.
- 1205 Help. processing crew clean up.
- ~~1300~~ 1300 Depart for marina
- 1305 At marina, offload. End of on-water day.


06.26.20

4 06.29.20

TDE

- 0545 Arrive at SPIN (TDE, 1000)
- 1060's overcast. Meet up w/ Grantly (P. Jenkins & M. Duffield)
- 0550 Prep boat, disinfect surfaces, prepare for sampling.
- 0625 C. Durrand (CUD) arrives.
- 0630 Lenny Vanderbrouwen (LED) arrives. Conduct H/S on reef + 08N15-19 screen.
- 0640 Depart Marnoo to pick up sampling equipment
- 0655 Pick up sampling equipment at First Air Bridge
- 0813 GPS Reference Site
- 0823 Collected SS 300
- 0845 Collected SS 305
- 0855 Collected SS 307
- 0906 Collected SS 315
- 0916 Collected SS 321
- 0922 Collected SS 358B
- 0945 Collected SS 360
- 0955 Collected SS 361
- 1008 Collected SS 367
- 1017 Collected SS 371
- 1029 Collected SS 373
- 1040 Collected SS 375
- 1108 Collected SS 376
- ~~1141 Collected SS 378~~ CD

06.29.20

T. Do. 5

- 1115 Troubleshoot boat motor issues
- 1141 Collected SS 378
- 1153 Head back to SPIN to change fuel pump.
- 1306 Arrived at South Park Marnoo. Boat repair.
- 1320 Depart Marnoo after repairs.
- 1334 Collected SS 382 Attempt 1
- 1338 Collected SS 382 Attempt 2 (success)
- 1350 Collected SS 384 Attempt 1
- 1352 Collected SS 384 Attempt 2 (success)
- 1400 Collected SS 385 Attempt 1
- 1402 Collected SS 385 Attempt 2 (success)
- 1415 Collected SS 386 Attempt 1
- 1427 Collected SS 386 Attempt 1
- 1438 Collected SS 391 387
- 1451 Collected ~~SS 370~~ SS 370
- 1509 Collected SS 316
- 1518 Collected SS 312
- 1526 Collected SS 303
- 1539 GPS reference Site
- 1545 Arrived at Marnoo
- 1550 Offload samples
- 1555 Brand, Quinald samples to SC
- samples prior to courier pick-up

Return to River

06.30.20

TDA

1620 GLE computer.
 1630 Lemier arrives, pick up samples
 (last night released)
 1655 Depart SPM. End of day

[Handwritten signature]
 TDA
 06.30.20

06.30.20

TDA⁷

0540 Arrive at SPM (TDA - Windward)
 light mist/rain, mid SD's, prep
 supplies & plan for day.
 0605 Breathy arrives (P. Jencius & M.
 DuField). Prep boat & eqpt. &
 disinfect surfaces/tools.
 0615 Co. Duval (CD) arrives.
 0625 Lemay Under Houven (KE)
 arrives.
 0630 Conduct HTS briefing + COVID-19
 screening
 0640 Depart main wa.
 0642 Navigation reference station check
 0710 Collected SS 410 Attempt (rejected)
 0713 Collected SS 410 Attempt 2 by hand (success) > 10ft.
 0724 Collected SS 433 by hand
 0737 Collected SS 414
 0746 Collected SS 412
 0753 Collected SS 408
 0800 Collected SS 405
 0807 Collected SS 403
 0813 Collected SS 402
 0831 Collected SS 314
 0839 Collected SS 370
 0848 Collected SS 267
 0901 Collected SS 265

[Marginal notes for 0713-0724:]
 pills +
 debris
 blowing
 boat
 (guess)

8 06-30-20

C Durand

- 0912 Collected SS 262a
- 0921 Collected SS 254
- 0933 Collected SS 260
- 0942a Collected SS 259
- 0951 Collected SS 256
- 1004 Collected SS 249
- 1017 Collected SS 239
- 1030 Collected SS 233
- 1055 Arrive South Park Marina per supplier
- 1108 Depart South Park Marina
- 1115 Collected SS 229
- 1123 Collected SS 227
- 1133 Collected SS 221
- 1148 Collected SS 201
- 1157 Collected SS 163
- 1206 Collected SS 157
- 1217 Collected SS 153
- 1230 Collected SS 149
- 1242 Collected SS 152. Attempt 1
- 1244 Collected SS 152. Attempt 2
- 1249 Collected SS 152. Attempt 3 (Success)
- 1308 Collected SS 147
- 1317 Collected SS 145
- 1331 Collected SS 143. Attempt 1
- 1333 Collected SS 143. Attempt 2 (Success)
- 1347 Collected SS 141

6-30-20

C Durand

- 1355 Collected SS 138
- 1407 Collected SS 137
- 1418 Collected SS 134
- 1430 Head back to SPN.
- 1432 GPS navigation reference check.
- 1445. Back at marina. D. Flood supplies/samples. Meet other crew.
- 1515 Bayn. SC of samples and clean up coolers; Chad empties out storage facility of coolers & cases of jars.
- 1535 Ael picks up all empty coolers and cases of jars.
- 1600 Chad Durand departs.
- 1605 Aaron Edgington departs.
- 1615 Ael picks up samples, custody released.
- 1625 Depart SPN. End of day


C Durand 20

2 06.04.20

K. McPeak

0730 Arrive South Park Manning (K. McPeak)
 0750 Lenny Vander Houten (KCS) arrives
 0755 Tom Hearsay (Clearways) arrives
 08185 RSS crew arrives: Eric Parker,
 Andrew Muth, and Kyle Gratten
 0820 H+S backing and COVID-19 screening
 0850 Load RSS beat and conduct beat
 H+S meeting
 0930 Depart dock for SC154
 0940 Arrive SC154; too shallow to sample
 0955 Depart SPM for IT236
 1003 Arrive IT236
 1008 Collect core @ IT236
 1024 Depart IT236 for processing float
 1037 Arrive float, deliver core and give
 core processing briefing to processing
 crew
 1110 Depart float
 1124 Arrive SC251
 1138 Collect core @ SC251
 1154 Depart SC251
 1156 Scope IT253, located either under
 barges or need higher tide to access
 1200 Depart IT253 Ar SC264
 1214 Collect core @ SC264
 1224 Depart SC264 + pick up supplies at SPM

06.04.20

L. McPeak

1226 Arrive SPM; pick up supplies (RSS)
 1238 Depart SPM
 1255 Arrive IT243
 1309 Collect core @ IT243
 1320 Depart IT243
 1330 Meet with Kyle to transfer core to
 float
 1349 Arrive SC158
 1401 Collect core @ SC158
 1412 Depart SC158 for processing float
 1420 Arrive float, unload cores,
 stay to help process samples
 1536 Depart float on Grandy boat
 for SPM w/ J. Hearsay. RSS
 stays @ float.
 1547 Arrive SPM, unload
 1555 Off-water, depart for storage unit

~~Leave
 1/3/20~~

Return to Base

406.05.20

K.M. Peck

0500 K. McPeak arrives @ SPM
 0515 T. Do and L. Vander Horstman arrive
 (L. Vander Horstman attends H+S briefing)
 0530 RSS arrives: E. Parker, A. Muth, K. Grostern
 0532 J. Harseny (Clearways) arrives
 0533 H+S briefing and COVID-19 screening
 0545 Lead supplies, setup for grab sampling
 0635 Depart dock for SS159
 0640 Arrive SS159
 0644 Collect grab @ SS159
 0659 Depart SS159
 0705 Arrive SS164
 0708 Collect grab @ SS164
 0718 Depart SS164 for dock; T. Do departs
 0720 Arrive SS167
 0723 Collect grab @ SS167
 0735 Depart SS167
 0739 Arrive SS158
 0742 Collect grab @ SS158
 0759 Depart SS158
 0800 Arrive SS154
 0810 collect grab @ SS154
 0822 Depart SS154
 0830 Arrive SS165
 0847 Collect grab @ SS165

06.05.20

K.M. Peck

0852 Depart SS165
 0853 Arrive SS168
~~0854~~ 0900 Collect grab @ SS168
 0908 Depart SS168
 0911 Arrive SS200
 0913 Collect grab @ SS200
 0925 Depart SS200
 0927 Arrive SS169; Ted Shallow to
 sample, will return later
 0938 dock @ SPM to finish processing
 and organizing samples
 1028 Depart SPM to continue grab sampling
 1034 Arrive SS101
 1038 collect grab @ SS101
 1056 Depart SS101
 1058 Arrive SS102
 1059 Collect grab and field duplicate @
 SS102
 1126 Depart SS102
 1130 Arrive SS109
 1132 Collect grab and field duplicate @
 SS109
 1152 Depart SS109 for processing float
 1202 Arrive float, unload full coils
 1213 Depart float for SS113
 1218 Arrive SS113

Return to Room

06.05.20

K McPeck

1220 Collect grab @ SS113 : partially
 winnowed, attempted again but
 washed out

1242 collect grab @ SS113, attempt 3:
 acceptable grab

1256 depart SS113 to dispose of leftover
 coring sediment upriver

1320 Nav check

1327 Arrive SS117

1329 collect grab @ SS117

1348 Depart SS117

1359 Arrive SS169

1402 Collect grab @ SS169

1422 Depart SS169

1425 Arrive SPM dock, unload

1440 Off-water, process QC paperwork

1510 Depart Merina

~~Leave~~
 1510

06.10.20

K McPeck

0605 K McPeck arrives SPM

0620 RSS (A. Math, E. Pecker) arrives

0625 CNID-19 screening

0625 Loony Vander Hoven (CC) arrives

0635 Cleary's arrives (C. Durand, K. Mathonet)

0636 H&S briefing

0650 Load supplies

0702 Depart SPM, do nav check

0720 Head to SS357

0726 Arrive SS357

0730 Collect grab @ SS357

0742 Depart SS357

0744 Arrive SS356

0746 Collect grab @ SS356

0756 Depart SS356, head to Grinity boat
 to drop off T. Do and then to SS364

0807 Arrive SS364

0810 Collect grab @ SS364

0825 Depart SS364

0826 Arrive SS355

0830 Collect grab @ SS355

0844 Depart SS355

0845 Arrive SS337

0847 Collect grab @ SS337

0900 Depart SS337

0901 Arrive SS338

Return to River

8 06.10.20

K. McPeck

0909 Collect grab @ SS338 (attempt 2 -

1st attempt was over-penetrated), collect

0939 Depart SS338 ^{field duplicate} @ SS338

0941 Arrive SS336

0943 Collect grab @ SS336

0957 Depart SS336

0958 Arrive SS335

1001 Collect grab @ SS335

1020 Depart SS335

1026 Talked to S. McGrady to confirm not to

collect grab yet @ SS339

1029 Depart for SPM

1035 Arrive SPM for bathroom break

1108 Depart SPM for SS106

1115 Arrive SS106

1137 Collect grab @ SS106. Lots of spread

at this location made sampling

challenging. 3 Attempts; kept #3

which had a rock in jaws but used

material from the sides of the grab

that ~~was~~ was not affected by

wash out (Rins in fact).

1201 Depart SS106

1203 Arrive SS121

1205 Collected grab @ SS121

1220 Depart SS121

06.10.20

K. McPeck

1221 Arrive SS123

1226 Collect grab and field duplicate @

SS123

1247 Depart SS123

1248 Arrive SS125

1252 Collect grab @ SS125

Depart SS125 for processing ~~at the~~

~~put up jars KM~~

1311 Kyle arrives to deliver jars

1314 Depart SS125

1320 Arrive SS127, too shallow to sample

1324 Depart SS127

1325 Arrive SS130

1328 Collected grab and field duplicate @ SS130

1350 Depart SS130

1352 Arrive SS135

1358 Collect grab @ SS135

1411 Depart SS135

1417 Arrive SPM, unload samples, begin

all of sample labels and paperwork

1610 Leave jaws with processing crew

1615 K. McPeck and R. Matheson depart

SPM

~~See 6/10/20~~

~~See work~~

10 06.11.20

K. McPeck

0635 K. McPeck arrives SPM
 0655 R. Mathamatt arrives + RSS arrives
 0702 COVID-19 screening (L. Vander Houwer
 w/ KC present)
 0711 H+S briefing
 0730 Load board
 0745 Depart SPM, par. check, head to
 SS333
 0808 Arrive SS333
 0813 Collect grab @ SS333
 0829 Depart SS333
 0840 Arrive SS169
 0841 Collect grab @ SS169
 0906 Depart SS169
 0911 Arrive SS113
 0916 Collect grab @ SS113
 0935 Depart SS113 for SPM. bathroom break
 0942 Arrive SPM for break
 1014 Depart SPM
 1019 Arrive SS146
 1030 Collect grab @ SS146. Attempt 2
 successful, attempt 1 was under-
 penetrated
 1049 Depart SS146
 1051 Arrive SS139
 1053 Collect grab @ SS139
 1110 Depart SS139

06.11.20

K. McPeck 11

1114 Arrive SS127
 1120 Collect grab and field duplicate @
 SS127
 1139 Depart SS127
 1140 Arrive SS133
 1142 Collect grab @ SS133
 1215 Depart SS133
 1219 Arrive SPM for bathroom break
 12:44 Kate trains Reung in load
 duties, leave SPM
 1247 Arrive SS140
 1250 Collect grab @ SS140
 1310 Depart SS140
 1312 Arrive SS142
 1316 Collect grab @ SS142
 1320 Depart SS142
 1333 Arrive SS144
 1336 Collect grab @ SS144
 1349 Depart SS144
 1352 Arrive SS148
 1358 Collect grab @ SS148
 1415 Depart SS148 for SPM
 1425 Arrive SPM, unload samples, begin dc
 of paperwork
 1540 Leave samples with processing crew
 1550 K. McPeck + R. Mathamatt Depart SPM

Time	Date	Activity	Location
12 06.12.20			K. McPoel
0635		K. McPoel arrives	SPM
0649		RSS (A. Muth + C. Perler) + Lenny Vander Hoven arrive	
0658		R. Mathonnet arrives	
0700		Conduct COVID19 screening	
0710		Load boat + conduct HTS briefing	
0729		Depart SPM, conduct nar check	
0748		Arrive SS253	
0754		Collect grab @	SS253
0809		Depart	SS253
0811		Arrive	SS252
0815		Collect grab @	SS252
0836		Depart	SS252
0838		Arrive	SS248
0844		Collect grab @	SS248
0857		Depart	SS248
0859		Arrive	SS263
0901		Collect grab @	SS263
0920		Depart	SS263
0921		Arrive	SS272
0922		Collect grab @	SS272
0936		Depart	SS272
0937		Arrive	SS271
0945		Collect grab @	SS271 on 2nd attempt. 1st attempt was over-permeated.
0949		Depart	SS271 for SPM

Time	Date	Activity	Location
06.12.20			V. McPoel 13
1002		Arrive	SPM, bathroom break
1015		Depart	SPM
1023		Arrive	SS273
1032		Collect grab @	SS273
1048		Depart	SS273
1058		Arrive	SS151
1102		Collect grab and field duplicate @	SS151
1123		Depart	SS151
1125		Arrive	SS150
1128		Collect grab @	SS150
1140		Depart	SS150
1144		Arrive	SPM for lunch break
1214		Depart	SPM
1220		Arrive at	SS155
1227		Collect	grab @ SS155
1242		Depart	SS155
1244		Arrive @	SS156
1245		Collect	grab @ SS156
1256		Depart	SS156
1258		Arrive @	SS162
1301		Collect	grab @ SS162
1319		Depart	SS162
1320		Arrive @	SS166
1323		Collect	grab @ SS166
1332		Depart	SS166 for SPM

1406.12.20

K. McPeak

1339 Arrive @ SPM, unload samples
begin QC of paperwork

1450 R. Mathomet departs

1550 K. McPeak leaves samples with
processing crew and departs SPM

~~1406.12.20~~

~~6/12/20~~

06.15.20

K. McPeak 15

0635 K. McPeak and T. Hensley arrive SPM

0700 RSS + C. Vander Hoven arrive

0705 conduct COVID-19 screening

0710 H+S briefing

0725 Load boat

0735 Depart SPM, conduct new check

0748 Head toward SS215

0755 Arrive SS215

0812 Collect grab @ SS215 on attempt 2.

0834 Depart SS215
Attempt 1 was under-penetrated.

0836 Arrive SS214

0841 Collect grab @ SS214

0858 Depart SS214

0859 Arrive SS212

0902 Collect grab @ SS212

0923 Depart SS212

0925 Arrive SS202

0930 Collect grab @ SS202

0945 Depart SS202

0951 Arrive SS203

0953 Collect grab @ SS203

1009 Depart SS203

1012 Arrive SPM for bathroom break

1030 Depart SPM

1043 Arrive SS341

16 06.15.20

K. McPeak

- 1048 Collect grab @ SS341
- 1103 Depart SS341
- 1107 Arrive SS342
- 1111 Collect grab @ SS347
- 1130 Depart SS347
- 1132 Arrive SS350
- 1150 ~~Attempted~~ grab @ SS350 - made 3 attempts, ~~no recovery~~ for
No recovery due to steep slope + riprap. (Attempts w/in 10ft of target)
- 1200 Talked to S. McGrady. Will attempt again w/in 32 ft from target
- 1219 Collect grab @ SS350, 23 ft from target
- 1229 Depart SS350
- 1232 Arrive SS352
- 1235 Collect grab @ SS352
- 1248 Depart SS352
- 1250 Arrive SS344
- 1257 Collect grab @ ~~SS344~~ ^{KM}SS344
- 1312 Depart SS344
- 1318 Arrive SS217
- 1320 Collect grab @ SS217
- 1338 Depart SS217
- 1341 Arrive SS219
- 1343 Collect grab @ SS219
- 1400 Depart SS219

06.15.20

K. McPeak 17

- 1404 Arrive SS220
- 1406 Collect grab @ SS220
- 1430 Kyle arrives to take samples and paperwork to processing area for etc
- 1431 Depart SS220, conduct raw check
- 1440 Arrive SPM, unload boat
- 1445 Off-water

~~Waste~~
6/15/20

6.16.20

R. Matthews

0615 Remy arrives at SPM
 0620 Lenny Van Houwen (K) arrives
 0630 RSS crew arrives: Eric Parker, Andrew Muth
~~0638 H+S briefing + COVID screening. Forms with Thai De. RM~~
 0638 Jim Heary arrives at SPM
 0639 H+S briefing + COVID screening. Forms with Thai De.
 0650 Load boat.
 0721 Depart SPM. Conduct way check.
 0733 Depart for SS 339
 0746 Arrive @ SS 339
 0749 Collect SS 339
 0809 Depart SS 339
 0811 Arrive @ SS 340
 0812 Collect SS 340
 0825 Depart SS 340
 0827 Arrive @ SS 353
 0829 Collect SS 353
 0839 Depart SS 353
 0842 Arrive @ SS 345
 0847 Collect SS 345
 0903 Depart SS 345
 0905 Take snack break

6.16.20

R. Matthews

0918 Arrive @ SS 342
 0922 Collect SS 342
 0939 Depart SS 342
 0941 Arrive @ SS 351
 0943 Collect SS 351
 1001 Depart SS 351
 1003 Arrive @ SS 348
 1004 Collect grab @ SS 348
 1023 Depart SS 348
 1025 Arrive @ SS 349
 1027 Collect grab @ SS 349
 1044 Depart SS 349
 1046 Arrive @ SS 346
 1050 Collect grab @ SS 346
 1104 Depart SS 346
 1106 Arrive @ SS 343
 1111 Collect grab @ SS 343
 1127 Depart SS 343
 1143 Arrive @ SPM for lunch break
 1219 Depart SPM
 1222 Arrive @ SS 160
 1225 Collect grab @ SS 160
 1238 Depart SS 160
 1241 Arrive @ SS 204
 1243 Collect grab @ SS 204
 1257 Depart SS 204

20 June 20 R. McThomas

- 1300 Arrive @ SS 210
- 1303 Collect grab @ SS 210
- 1326 Depart SS 210
- 1327 Call Brandi. Quinslink to coordinate QC
- 1345 Arrive @ footbridge near 400 series. Decide not to continue with rising tide, conduct new check
- 1355 Arrive SPM, unload boat
- 1418 J. Hearsey departs
- 1430 QC check with Thai
- 1505 Hand coolers and CoCs to Brandi
- 1507 Renny departs SPM

~~Renny must 6/14/20~~

6.17.20 R. McThomas

- 0644 Renny arrives @ SPM
- 0658 RSS and Lenny Vander Horst arrive @ SPM
- 0700 Jim Hearsey arrives @ SPM
- 0705 Conduct COVID screening and Health + Safety check
- 0712 Load boat
- 0741 Depart SPM, conduct new check
- 0749 Depart for SS 417
- 0812 Arrive @ SS 417
- 0818 Determine tide is too low to collect SS 417 at this time
- 0820 Depart for SS 324
- 0832 Arrive @ SS 324
- 0837 ~~Attempt~~ Attempt SS 324
- 0840 Experiencing problems with grab not employing, Problem solved
- 0842 Collect grab @ SS 324
- 0901 Receive ice from Hal
- 0908 Depart SS 324
- 0913 Arrive @ SS 325
- 0915 Determine tide is too low to collect SS 325 at this time.
- 0920 Arrive @ SS 326

22 6.17.20

R. Matthews

0922 Collect grab @ SS326
 0941 Depart SS326
 0943 Decide to come back to
 Duwamish Yacht Club at
 higher tide. ~~Depart RM~~
 0953 Arrive @ SS365
 0956 Collection grab @ SS365.
 Attempted
 Grab not level. and some
 loss of surface fines.
 1005 Attempt 2 to collect SS365.
 Grab get previously sampled
 surface.
 1013 Collect SS365
 1027 Depart SS365
 1032 Arrive @ SS368
 1034 Collect SS368
 1046 Depart SS368
 1050 Arrive @ SS372
 1052 Collect grab @ SS372
 1111 Take lunch on river
 1124 Depart SS372
 1131 Arrive @ SS426
 1135 Collect grab @ SS426
 1150 Depart SS426
 1153 Arrive @ SS421

6.17.20

R. Matthews

23

1157 Collect grab @ SS421
 1213 Depart SS421
 1230 Arrive @ SPM for bathroom
 break
 1242 Depart SPM
 1252 Arrive @ SS325
 1301 Collect grab @ SS325
 1318 Depart SS325
~~1323 Collect grab @ 327 RM~~
 1320 Arrive @ SS327
 1323 Collect grab @ SS327
 1355 Depart SS327
 1358 Arrive @ SS331
 1402 Collect grab @ SS331
 1419 Depart SS331
 1421 Arrive @ SS332
 1425 Collect grab @ 1332
 1439 Depart SS332
 1457 Arrive @ SPM. Unload boat
 1515 J. Hensley departs SPM
 1520 QC with processing crew
 1545 Remy leaves coolers with
 processing crew. Remy departs
 SPM.

Remy Matthews
 6/17/20

24 C. 18.20

RSS

R. Mathewson

0645 Rebuy & arrives on + J. Heaney

arrive @ SPM

0650 COVID screening, H+S briefing

0700 Load boat

0725 Depart SPM

0730 Conduct new check

0801 Arrive @ SS328

0806 Collect grab @ SS328

0827 Depart SS328

0832 Arrive @ SS329

0840 Collect grab @ SS329

0857 Hal from RSS arrives to

deliver camera, bleach and take coolers.

0903 Depart SS329

0909 Arrive @ SS251

0911 Collect grab @ SS251

0930 Depart SS251

0933 Arrive @ SS264

0935 ~~Collect grab @ SS264~~ ~~Attempted grab @ SS264~~ ~~Grabs~~

get a bucket of debris and jars weren't able to fully close on

Debris caught in grab and

sample was unwound, ~~Attempted~~

0939 ~~2~~ ~~was successful~~ ~~grab~~

Collect grab (second attempt)

6.18.20

R. Mathewson

0953 Depart SS264

1010 Arrive @ SS409. Tide too low.

1011 Depart SS409

1013 Arrive @ SS413. Hear from

Thai that it's on Boeing

properly.

1016 Depart SS413

1030 Arrive @ SS409.

1036 Collect grab @ SS409

1107 Attempt to get to SS359.

Tide too low.

1109 Depart SS359

1116 Arrive @ SS310

1119 Collect grab @ SS310

1140 Depart SS310

1150 Arrive @ SPM for lunch

1213 Depart SPM

1223 Arrive @ SS318

1225 Collect grab @ SS318

1238 Depart SS318

1240 Arrive @ SS322

1242 Collect grab @ SS322

1258 Depart SS322

1301 Arrive @ SS359

1304 Collect grab @ SS359

R. Mathewson

26 6/18, 20

R. McThomnet

1323 Depart SS359
 1328 Arrive @ SS 377
 1330 Collect grab @ SS377
 1344 Depart SS 377
 1348 Arrive @ SS 379
 1350 Attempt 1 @ grab of SS379,
 Sample sloped. Kept a bowl
 from grab. in case other attempts fail.
 1407 Collect grab @ SS379. - second
 attempt.
 1426 Depart SS 379
 1430 Arrive near SS 383. Tide too
 low. Depart SS 383
 1434 Arrive @ SS 388.
 1439 Attempt first grab @ SS388.
 Sample under penetrated.
 1447 Collect grab @ SS 388
 1505 Depart SS 388
 1520 Now check
 1525 Arrive @ SPM. Unloaded boat
 1535 RC with Amara V. Leaves
 coolers with her. Kenny arrives
 to pick up coolers.
 1610 Rainy departs SPM.

~~6/18/20 R. McThomnet~~

6.18.20

R. McThomnet 27

* No coordinates were taken
 at SS 329. Eric Parker (RSS)
 manually created that data point.

6/18/20

6.19.20

R. McNamee

0620 R. McNamee arrives @

SPM

0630 RSS - Eric Parker and Kyle

~~0635~~ ~~0635~~ Grosten arrive @ SPM

0631 Jim Hensley arrives @ SPM

0632 COVID screening.

0635 Mt S briefing

0640 Load boat

0658 Depart SPM

0706 Nav check - 28 satellites

Soe, sunny

0724 Arrive @ SS224

0728 Collect grab @ SS224

0749 Depart SS224

0752 Arrive @ SS232

0754 Collect grab @ ~~SS224~~ SS232

0811 Depart SS232

0814 Arrive @ SS240

0816 Collect grab @ SS240

0829 Depart SS240

0831 Hal (RSS) arrives to exchange

bleach spray, form

0834 Arrive @ SS244

0838 Collect grab @ SS244

0849 Depart SS244

0850 Arrive @ SS243

Mon 6.19.20

R. McNamee

0851 Collect grab @ 243

0901 Hal (RSS) arrives with

SS417 collected by hand

by Thai D. Grab will be

processed on boat.

0918 Process grab SS417

0934 Depart SS243 after processing

SS417

0940 Arrive @ SS269

0942 Collect grab @ SS269

0958 Depart SS269

0959 Arrive @ SS261

1001 Collect grab @ SS261

1017 Depart SS261

1019 Arrive @ SS255

1020 Collect grab @ SS255

1028 Hal arrives with air tanks

1040 Depart SS255

1041 Arrive SS250

1042 Collect grab @ SS250

1001 Depart SS250

1104 Arrive @ SS245

1110 Collect grab @ SS245

1124 Depart SS ~~245~~ 245

1133 Arrive @ SPM for lunch break

1158 Depart SPM

R. McNamee

30 6.19.20

R. Mathewson

1204 Arrive @ SS 222

1207 Collect grab @ SS 222

1220 Depart SS 222

1220 Arrive @ SS 223

1221 Collect grab @ 223

1235 Depart SS 223

1236 Arrive @ SS 226 of SS 226

1236 Attempt @ 1st grab of large piece of woody debris caught in jaws.

1246 disrupts surface collect grab @ SS 226 on

second attempt

1259 Depart SS 226

1300 Arrive @ SS 230

1301 Collect grab @ 230

1313 Take 5 min water break

1319 Depart SS 230

1320 Arrive @ SS 230

1320 Collect grab @ SS 235

1333 Depart SS 235

1335 Arrive @ SS 238

1336 Collect grab @ SS 238

1348 Depart SS 238

1354 Arrive @ SS 329

1354 Collect grab @ SS 329

1409 Depart SS 329

6.19.20

R. Mathewson

1427 New check 24 satellite

1433 Arrive @ SPM. unload boat

1458 Jim Henray departs SPM

1520 Cindy Fields (Aurora) arrives

to assist with QC

1610 R. Mathewson leaves coolers

with Aurora V.

1615 Renny departs SPM.

Handwritten signature

6/19/20

R. Mathewson

32 06.23.20

K. McPeak

0735 K. McPeak arrives SPM

Weather: 60s, sunny

0745 J. Hensley arrives

0755 RSS arrives

0755 Conduct COVID-19 screenings +

H+S briefing

0815 Load boat

0820 Depart SPM, conduct nav check,

pinpoint grab sampler for deployment

0833 Depart nav check for SS301

0842 Arrive SS301, attempted 1 grab

(unsuccessful), will return on incoming

tide

0855 Depart SS301

0858 Arrive SS306

0859 Collect grab @ SS306

0908 Depart SS306

0910 Arrive SS309, not sampleable due to

tide, will return later

0913 Depart SS309

0914 Arrive SS308

0916 Collect grab @ SS308

0930 Depart SS308

0943 Arrive SS400

0955 Collect grab @ SS400 on 2nd attempt.

1st attempt was windward + under-

penetrated

06.23.20

K. McPeak

33

1007 Depart SS400

1011 Arrive SS401

1013 Collect grab @ SS401

1025 Depart SS401

1030 Arrive SS406

1035 Cargo boat arrives to hand over SS415

collected by hand @ 1020 by T. De

1039 Collect grab @ SS406 on attempt 3.

First 2 attempts unsuccessful -

rock in jaws (attempt 1), sampler

tipped over (attempt 2)

1108 Depart SS406

1111 Arrive SS418, too shallow to sample

1114 Depart SS418

1118 Arrive SS425

1124 Collect grab @ SS425 on attempt 3.

First 2 attempts were windward.

1152 Depart SS425 for SPM

1214 Arrive SPM for bathym break

1231 Depart SPM for SS206

1238 Arrive SS206

1241 Collect grab @ SS206

1255 Depart SS206

1257 Arrive SS216

1259 Collect grab @ SS216

1311 Depart SS216

Return to Base

34 06.23.20

K. McPeak

1313 Arrive SS225
 1318 Collect grab @ SS225
 1330 Depart SS225
 1335 Arrive SS234
 1338 Collect grab @ SS234
 1351 Depart SS234
 1352 Arrive SS237
 1353 Collect grab @ SS237
 1406 Depart SS237
 1409 Arrive SS241
 1411 Collect grab @ SS241
 1425 Depart SS241
 1427 Arrive SS242
 1428 Collect grab @ SS242
 1443 Depart SS242 for SPM
 1450 Conduct nav check
 1459 Arrive SPM, unload back, and do paperwork
 1542 Leave SPM with processing crew
 1553 K. McPeak departs SPM

~~K. McPeak 6/23/20~~

06.24.20

K. McPeak

35

0610 K. McPeak arrives SPM
 weather: bds, partly sunny
 0625 L. Vander Hoven arrives
 0635 J. Hradey arrives
 0640 RSS arrives, COVID-19 screening
 0645 Load boat & conduct HRS briefing
 0701 Depart SPM, conduct nav check
 0712 Depart nav check location for SS301
 0718 Arrive SS301, troubleshoot grab
 Sampler issues
 0754 Collect grab @ SS301 on attempt 2.
 1st attempt was under-perforated.
 0810 Depart SS301
 0812 Arrive SS302
 0818 Collect grab @ SS302 on attempt 2.
 1st attempt was rejected due to rock in jaws
 0837 Depart SS302
 0840 Arrive SS309
 0842 Collect grab @ SS309
 0902 Depart SS309
 0909 Arrive SS323
 0913 Collect grab @ SS323
 0928 Depart SS323
 0929 Arrive SS320, too shallow to collect sample

Return to Room

36 06.24.20

K. McPeck

0931 Depart SS320
 0938 Arrive SS316; not accessible due to tide
 0939 Depart SS316
 0941 Arrive SS311
 0943 Collect grab @ SS311
 0956 Depart SS311
 0958 Arrive SS313
 1009 Collect grab @ SS313 on 2nd attempt.
 Attempt 1 was steeply sloped +
 partially winnowed.
 1022 Depart SS313
 1024 Arrive SS317
 1025 Collect grab @ SS317
 1045 Depart SS317
 1100 Arrive SS404
 1111 Collect grab @ SS404 on attempt 4.
 First 3 attempts: no recovery due
 to sampler tipping over or bitton
 debris.
 1125 Depart SS404
 1130 Arrive SS407
 1134 Collect grab @ SS407
 1149 Depart SS407
 1156 Arrive SS413; to: shallow to sample
 1200 Depart SS413 for SPM
 1217 Arrive SPM for bathroom break

06.24.20

K. McPeck 37

1245 Depart SPM for SS205, wait for barges
 1255 Arrive SS205
 1301 Collect grab @ SS205 on attempt 2.
 1st attempt was sloped + winnowed.
 1317 Depart SS205
 1318 Arrive SS207
 1319 Collect grab @ SS207
 1337 Depart SS207
 1338 Arrive SS209
 1340 Collect grab @ SS209
 1355 Depart SS213 with SS209
 1356 Arrive SS213
 1359 Collect grab @ SS213
 1413 Depart SS213
 1417 Arrive SS246
 1419 Collect grab @ SS246
 1437 Depart SS246
 1443 Arrive processing float for raw check
 1445 Conduct hatchback, K. McPeck
 departs + stays @ float with
 grab samples to conduct QC
 1520 K. McPeck leaves grab samples with
 processing crew and departs for
 SPM
 1522 Arrive SPM, aft-weather
 1530 K. McPeck departs SPM

~~K. McPeck~~
E. McPeck

38 06.25.20

K. McPeck

0605	K. McPeck arrives SPM	
0615	J. Henry arrives	
0626	L. Vander Huden arrives	
0628	RSS (G. Parker & A. Muth) arrives	
0628	Conduct HIS bookings ^{km} COVID screening	
0635	Load boat & conduct HIS bookings	
0655	Depart SPM (Nav check done by RSS before arrival)	
	<u>Weather</u> : GDs, sunny	
0708	Arrive SS320	
0710	Collect grab @ SS320	
0729	Depart SS320	
0734	Arrive SS304	
0736	Collect grab @ SS304	
0748	Depart SS304	
0750	Arrive SS319	
0753	Collect grab @ SS319 SS319	
0809	Depart SS319	
0814	Arrive SS393	
0817	Collect grab @ SS393	
0829	Depart SS393 SS393	
0832	Arrive SS383	
0842	Collect grab @ SS383 on attempt 2, No recovery on 1st attempt.	
0900	Depart SS383	
0904	Arrive SS390	
0907	Collect grab @ SS390	

06.25.20

K. McPeck 39

0927	Depart SS390	
0928	Arrive SS389	
0948	Collect grab @ SS389 on attempt 4. 1st 3 attempts had wash out or no recovery. Lots of weed debris; stuck in jaws on attempt 3. ^{2nd} Talked to S. McGrady about attempt 9. Decided to keep grab and collect from side with fins in tact, did not collect from winnowed area.	
1003	Depart SS389 for SPM	
1019	Arrive SPM for bathroom break	
1027	Depart SPM for SS413	
1041	Arrive SS413	
1053	Made 3 attempts @ SS413 but target coordinates are located in a rock pile and could not recover any sediment. Talked to S. McGrady. This is not a recovery location; can move to within 32 ft of target.	
1055	Collect grab @ SS413 on attempt 4, within 32 ft of target	
1105	Depart SS413	
1107	Arrive SS416	
1111	Collect grab @ SS416	
1128	Depart SS416	

40 06.25.20

K. McPeck

1130 Arrive SS418
 1132 Collect grab @ SS418
 1149 Depart SS418
 1151 Arrive SS419
 1200 Collect grab @ SS419 by hand,
 2 ft north of core location
 1219 Depart SS419, lunch break (on-water)
 1240 Arrive SS392
 1244 Collect grab @ SS392
 1300 Depart SS392 for SPM
 1309 Arrive SPM, bathroom break
 1320 Depart SPM
 1326 Arrive SS128
 1327 Collect grab @ SS128
 1338 Depart SS128
 1341 Arrive SS131
 1344 Collect grab @ SS131
 1400 Depart SS131
 1402 Arrive SS132
 1403 Collect grab @ SS132
 1418 Depart SS132 for processing float
 1423 Arrive float, conduct nav check,
 K. McPeck departs & stays at float
 to QC samples
 1515 K. McPeck leaves grab samples with
 processing crew

06.25.20

K. McPeck

41

1525 K. McPeck departs float
 1527 K. McPeck arrives SPM, off-water

~~Return~~

6/25/20

42 06.26.20

IC McPeak

0610 K. McPeak arrives SPM

Weather: 6ds, sunny

0625 J. Hearing arrives

L. Vander Hoven already on-site

^{EM} 0635 Talked to E. Parker. RSS delayed

due to mechanical trouble

0720 RSS (E. Parker, K. Grosten) arrives

0725 Finish COVID-19 screening

0730 Load boat, conduct HTS breaking

0743 Depart SPM

0745 Conduct nav check

0748 Depart nav check location for 55423

0811 Arrive 55423

0831 Made 4 attempts @ 55423, no

recovery. Will return at low tide

to check possibility of collecting

by hand.

0840 Depart 55423

0841 Arrive 55424

0846 Collect grab @ 55424

0900 Depart 55424

0909 Arrive 55268

0911 Collect grab @ 55268

0931 Depart 55268

0933 Arrive 55266

0934 Collect grab @ 55266

06.26.20

IC McPeak 43

0951 Depart 55266

0953 Arrive 55258

0954 Collect grab @ 55258

1007 Depart 55258

1010 Arrive 55257

1013 Collect grab @ 55257

1023 Depart 55257

1029 Arrive 55228

1039 Collect grab @ 55228 on attempt 2.

No recovery on attempt 1.

1053 Depart 55228

1055 Arrive 55236

1057 Collect grab @ 55236

1110 Depart 55236

1113 Arrive 55247

1115 Collect grab @ 55247

1131 Depart 55247 for SPM

1139 Arrive SPM for lunch break

1201 Depart SPM for segment 4

1225 Arrive segment 4, scope 55423 -

water still too deep to see bottom

(water level 3.2 ft)

1232 Depart 55423

1233 Arrive 55427

1239 Collect grab @ 55427 on attempt 2.

Attempt 1 was under-penetrated.

06.26.20

K McPeck

1252 Talked to S. McGrady about SS423.

Will leave for next week for Gravity boat to attempt.

1256 Depart SS427

1300 Arrive SS422

1301 Collect grab @ SS422

1314 Depart SS422

1318 Arrive SS420

1320 Collect grab @ SS420

1333 Depart SS420

1342 Arrive SS380

1350 Collect grab @ SS380 on attempt 2.

Attempt 1 was washed out & discontinued.

1410 Depart SS380

1420 Conduct nav check

1430 Arrive SPM, unload supplies and samples

R. Mathomet arrives to help GC samples.

~~1445~~ ¹⁴⁴⁵ AEL cover arrives to pick up grab

1556 Samples - K: McPeck transfers

custody

1600 K. McPeck depart SPM

~~Leave~~ 6/26/20

6:30. 20

R. Mathomet

0645 R. Mathomet arrives @ SPM

0655 RSS - Eric Parker + Andrew

Math arrive @ SPM

0658 Begin COVID screening

0705 Aaron Edgerton arrives @

SPM

0706 Health and safety briefing, finish

COVID and safety screening

0710 Load boat

0733 Depart SPM

* RSS performed Nav checks

before arrive @ SPM @

approximately 0645

0747 Arrive @ SS100

0749 Collect grab @ SS100

0822 Depart SS100

0824 Arrive @ SS103

0827 Collect grab @ SS103

0846 Depart SS103

0849 Arrive @ SS104

0852 Collect grab @ SS104

0909 Depart SS104

0911 Arrive @ SS107

0913 Collect grab @ SS107

0930 Depart SS107

0933 Arrive @ SS 108

46 6.30.20 R. MacRae

0935	Collect	grab @ SS108	
0954	Depart	SS108	
	Arrive	@ SS110	
0957	Arrive	@ SS110	
1000	Collect	grab @ SS110	
1016	Depart	SS110	
1017	Arrive	@ SS111	
1019	Arrive Collect	grab @ SS111	
1033	Depart	SS111	
1035	Arrive	@ SS112	
1035	Collect Attempt	to collect SS112.	
		Not successful due to stepped surface and unloading because of garbage in jaws.	
1040	Collect	SS112 on second attempt	
1053	Gravity boot	arrives and hands off supplies	
1057	Depart	SS112	
1058	Arrive	@ SS114	
1059	Collect	grab @ SS114	
1117	Depart	SS114	
1119	Arrive	@ SS115	
1121	Collect	grab @ SS115	
1146	Depart	SS115	
1149	Arrive	@ SPM for lunch break	
1201	Depart	SPM	

6.30.20 R. MacRae 47

1208	Arrive	@ SS116	
1212	Collect	grab @ SS116	
1229	Depart	SS116	
1231	Arrive	@ SS116	
1232	Collect	grab @ SS118	
1249	Depart	SS118	
1250	Arrive	@ SS119	
1251	Collect	grab @ SS119	
1309	Depart	SS119	
1311	Arrive	@ SS120	
1313	Collect	grab @ SS120	
1332	Depart	SS120	
1333	Arrive	@ SS124	
1335	Collect	grab @ SS124	
1349	Depart	SS124	
1351	Arrive	@ SS126	
1353	Collect	grab @ SS126	
1406	Depart	SS126	
1408	Arrive	@ SS129	
1410	Collect	grab @ SS129	
1427	Depart	SS129	
1436	Nav check		
1446	Arrive	@ SPM. Unload boot	
1500	QC with Aaron		
1525	Heavy deposits SPM for Losers		
	Losers with Ther.		

Return to Room

48 6.30.20

1530 Remy departs 5PM.

Remy

M/24

6/30/20



- USE WET OR DRY**
most pens stop writing when wet
- ALL PENCILS
 - RITE IN THE RAIN PENS
 - WAX MARKERS
 - CRAYONS
 - OIL PASTELS / PAINT

- WHEN DRY ONLY**
what you write won't wash off
- PERMANENT MARKERS
 - STANDARD BALLPOINTS

- WON'T WORK**
water-based inks bleed off sheet
- GEL PENS
 - MOST HIGHLIGHTERS
 - FOUNTAIN PENS
 - WATER COLORS
 - ACRYLIC PAINT

MADE IN TACOMA
— SINCE 1916 —
Rite in the Rain
DEFYING MOTHER NATURE

Yes, Rite in the Rain
is a wood-based & recyclable
paper, but unlike plain paper...
it won't turn to mush
when exposed to:



ALL-WEATHER TOUGH!

BRAND STORY
The Rite in the Rain story began a century ago in the forests of the Great Pacific Northwest. Entrepreneur Jerry Darling recognized the logging industry's need for a durable material that could be written on and survive in poor weather conditions. Jerry developed a special coating that created a unique moisture shield on the hand-dipped sheets of paper that he and his wife, Mary, processed at their home. From these humble beginnings our first all-weather paper was born. Over the many years we've perfected and patented our environmentally responsible coating process. Still located in Tacoma, our continued mission is to provide innovative products for professionals and enthusiasts who brave the outdoors.

EQUIPPING MULTIPLE INDUSTRIES WORLD-WIDE
products available



RiteintheRain.com

© J.L. DARLING LLC
2614 PACIFIC HWY EAST
TACOMA, WA 98424 USA



16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 CM

2 6/11/20 sunny - lots

6:45 Arrive Marina

A Vanderhoff
B. Dinklist
S. McGroddy

8:00 Safety Briefing

7:55 - C. Fields
A. B. Crowder
A. Zwick

8:10 CV Temperature

load float belly briefing

8:15 On water - load float belly briefing

9:08 leave marina, setup
process cores

process cores

4:13 B. Dinklist + A. Vanderhoff off water

4:24 S. McGroddy, C. Fields, C. Orr, A. Zwick,
4:30 samples to AR1

4:30 samples to AR1

~~6/11/20~~

3 A Vanderhoff - partly cloudy - lots

6/12/20

8:05 arrive @ Marina + unpack gear

8:30 Safety Briefing + CV 19 Screening

- C. Fields - A. B. Dinklist
R. Crowley - A. Zwick

- 8:55 leave marina, setup float.

- 3:40 - back to marina

- 4:27 - samples to AR1

~~6/12/20~~

6/13/20 Overcast/ breezy 60s A Vandorst 4

7:45 B. Quinisk + AV on desk in office

8:00 C. O'reiro, A. Zwick, R. Crawley and

Heath + safety meeting
Cu-19 temp checks

8:20 on water

8:37 Setup for processing cores
Decom equipment
process cores

3:20 finish processing/packing up

3:40 off water

~~M. Quinisk
6/13/20~~

6/14/2020 Cloudy 60s B. Quinisk 5

7:30 Arrive at site and setup

8:00 H's briefing w/ David soeren

lenny Vander Houwen from
L. Quinisk auditing

Processing logs (conducted) Kate's break (scope logs)

8:00
B. Quinisk (conducted) E. Heppel
A. Vandorst
A. Zwick Hill (boat) Tim Heusinger
R. Crawley (nappin) Erik Paulsen
C. O'reiro A. Mute
E. Heppel lenny. (K.C. auditor)

8:11 on water

8:56 to processing float and
setup

process cores

3:50 B. Quinisk ~~leaves~~ leaves to mobil lab
cont.

4:02 B. Quinisk off water

5:05 off water / OC samples
5:30 - leave Mantra

~~M. Quinisk
6/14/20~~

6/15/20 Cloudy bog A. Vandervoort

7:45 Alabauit + S. Quinlan

8:00 C. Oreiro arrive Health safety meeting
A. Zaccak
R. Conley

8:33 On-the-water

8:45 setup processing Stations
process cores

2:10 clean up float

2:17 off water.

3:40 finish QC

3: = Samples to log counter

4:05 Samples to TLG

~~C. Oreiro
S. Quinlan~~

A Vandervoort partly sunny bog 6/18/20

7:45 arrive @ Manna ^{3 samples} A. Vandervoort

8:00 C. Oreiro B. S. McGraddy
A. Zaccak
R. Conley

8:18 Health + Safety meeting +
CU-19 scrubbing

8:18 On water

8:23 setup processing float
process cores

4:05 - Off water

4:30 Samples to AL2

~~A. Vandervoort
C. Oreiro~~

8:00 6/19/20 ^{msylight rain} to hydrostratigraphy A. Vandenberg

8:15 Baulusik + A. Vandenberg

8:30 - G. Osorio A. Edgington arrive

8:37 - CU19 screen segments

8:48 CU19 screen on E. Crawley

8:50 on water / setup truck

14:00 off water

unloaded boat

QC samples for lab courier

Pickup

4:00 samples to lab

~~A. Vandenberg
6/19/20~~

A. Vandenberg - Raining → 6:05 6/19/20
then partly cloudy.

7:45 A. Edgington + A. Vandenberg

8:00 HHS meeting + CU-19 screening

G. Fields
A. Zwick

8:18 on water / setup processing truck

3:00pm off water

QC samples + COCs

4:35 samples to courier

~~A. Vandenberg
6/19/20~~

6/11/2020

Raining mid day

B. Quinlan

07:30: BA ~~inside~~ unload supplies & equipment

8:20 COVID screen and HHS briefing

Attendees:

B. Quinlan (commander)

A. Edgington

D. Fields

H. Peterson

R. Crossley

*Lenny from E. County unable to attend

Texted Lenny picture of COVID screen log.

8:32 DN water set up float

14:57 off water and unload boat
QC samples

16:02 samples to ARI Courier and S. Park Marina Group Courier

16:15 leave site

~~B. Quinlan
6/11/2020~~

Alvanderoff cloudy 605 6/12/20

07:30: BA ^{Alvanderoff} / Alvanderoff and unload

8:00 CV-19 screening

H. Peterson

A. Zadek

C. Oresto R. Rowley

9:00 Safety briefing

9:21 - DN water

arrive @ float

AV start processing

13:35 pack up float

~~14:45~~

15:45 off water / QC samples

19:8 samples to courier

19:35 leave site

~~A. Zadek
6/12/20~~

6/15/20 raining 603 A. Vandenvert

7:45 arrive @ manna

8:00 CU-19 screening + A. Edgington
Health + safety C. Ellis
L. Hrm
A. Zack

8:21 on water / set up float

~~8:53~~ 8:53 pickup float

8:12 off water / @ samples / coolers

4:35 samples to cooler / leave site

~~6/15/20~~

6/16/20 20

Brandi Quinisk

cloudy, low 60's

7:30 - Arrive onsite (BQ)

Unload car; setup for mfg.

8:00 - COVID screen / Hrs mfg

A. Edgington A. Zaka
B. Cording C. Henry
K. Goster Lenny (V. County
auditor)

8:09 - on water
Set up float

14:58 - off water
@ sample for lab pickup

15:48 - AEL (Lab) arrives &
picks up samples

15:56 - leave site

~~6/16/2020~~
B. Quinisk

6/17/2020

Sunny; Party
B. Quinise
clearly 605

7:45 - Arrive at site

7:55 - COND screen / H15 Mtg

B. Quinise (conducted)

H11 (Bout captain)

Lenny (U. country)

A. Edgington

R. Crowley

A. Zacek

D. Dreind

08:30 on water

15:14 off water

un load boat

10 samples for lab pickup

16:30 Arr Arrives

16:15 Leave site

A. Vandervoort - Supply (6/18/20)

clear 605

7:40 arrive at site A. Edgington

A. Vandervoort -

7:55 - CU-19 screen

H15 meeting H. Peterson

R. Crowley

A. Zacek

8:31 on water

prep for processing.

8:35 off water / begin sample DC

4:10 meet courier to transfer

samples

4:25 leave S, 2e

~~W. K. ...~~
~~6/18/20~~

6/19/20 Sunny clear ^{gas} A Vandervoort

7:30 arrive @ site + unload
A. Vandervoort

A. Edgington

7:55 CU-19 screen / H/S mtg
load boat

8:15 on water / setup processing float.

3:15 off water @ sample

4:35 Samples to courier /
leave site

~~A Vandervoort
6/19/20~~

A Vandervoort Sunny clear ⁶⁰⁵ 6/22/20

7:40 A Vandervoort + A Edgington for canoe
@ site + unload.

7:55 CU-19 screening + H/S mtg
T. AKKAN, L. HENRY, R. CRADLEY, K. GOSSEL.

8:10 on water / setup float / processing cores

2:40 off water / begin sample @

3:47 Samples to lab courier

3:55 leave site.

~~A Vandervoort
6/22/20~~

6/23/2020

B. Quinlisk

Sunny mid 70's

7:15 Arrive at site & Setup

COVID screen - Lenny from V. County not able to attend - sent pic of COVID screen log.

7:43 H & S Briefing

B. Quinlisk - conducted
A. Edgington L. Henry
E. Crowley Kyle G. (Boat captain)
T. Atkan

8:07 ON water

15:09 Off water

QC samples for lab pickup

15:40 Lab (Aer) arrives to pickup samples

15:55 Leave site

~~B. Quinlisk
6/23/2020~~

6/24/2020

B. Quinlisk

mostly sunny mid to high 60's
windy

7:30 Nick E. & B. Quinlisk arrive at site.

7:50 COVID screen / H & S Briefing

B. Quinlisk (conducted)
E. Crowley
Kyle G. (Boat captain)
Andy Zaack
Luca's Henry
Nick Edwards
COVID screen audited by Lenny at King County.

8:08 ON water

15:46 Off water

QC samples for lab pickup

16:30 Leave site

~~B. Quinlisk
6/24/2020~~

20 06/25/19 Sunny/light clouds / A. Vandervort
60s light breeze

7:30 A. Vandervort arrive @ site
N. Eckhart

Unload

7:55-8:05 CU-19 screening / HS only

R. Crowley T. ARKON
K. GOSKIN C. Fields

8:15 on-water / set up processing float

4:40 off water

4:50 samples to lab courier

4:58 leave site

~~A. Vandervort
06/25/19~~

A. Vandervort Sunny/clear 06/26/19 21
60s

7:40 arrive @ site + Unload
A. Vandervort + N. Eckhart

7:57-8:10 CU-19 screening / HS only

R. Crowley T. ARKON

8:30 on water / Setup float

13:00 off water

13:10 leave site

~~A. Vandervort
06/26/19~~

AOC4 Core Visual Observations

Sample ID	Date Collected	Depth Interval (cm)	Tier	Homogeneous (Y/N)	Notes
Bold font indicates core segments that were not homogenous					
LDW20-IT105	6/2/2020	0-45	1	N	slight color variation - changes from dark grey to brown at 50 cm
LDW20-IT106	6/2/2020	0-45	1	N	top 25 cm gravel; remainder brown sand and silt
LDW20-IT107	6/24/2020	0-45	2	N	0-20 cm silt; remainder silt and sand
LDW20-IT110	6/24/2020	0-45	2	Y	black and brown with fine sand
LDW20-IT112	6/24/2020	0-45	2	Y	brown silt
LDW20-IT116	6/24/2020	0-45	2	N	0-15 cm silt; remainder silt and fine sand
LDW20-IT120	6/24/2020	0-45	2	Y	brown silt with sand
LDW20-IT124	6/24/2020	0-45	2	Y	dark grey silt with fine sand
LDW20-IT127	6/2/2020	0-45	1	N	color variation - 0-5 cm brown, 5-15 cm dark grey, remainder dark brown
LDW20-IT133	6/3/2020	0-45	1	Y	dark grey and brown silt with medium sand
LDW20-IT137	6/24/2020	0-45	2	Y	brown sand
LDW20-IT139	6/3/2020	0-45	1	Y	dark brown with fine sand
LDW20-IT143	6/25/2020	0-45	2	Y	brown silt with fine sand
LDW20-IT145	6/24/2020	0-45	2	N	0-30 cm dark grey silt; remainder dark grey silt and sand
LDW20-IT146	6/3/2020	0-45	1	Y	dark rusty brown and gravel throughout
LDW20-IT147	6/25/2020	0-45	2	Y	grey silt and fine sand
LDW20-IT151	6/3/2020	0-45	1	N	0-10 cm brown/grey silt; remainder brown medium sand
LDW20-IT152	6/25/2020	0-45	2	N	0-18 cm dark grey silt with gravel; remainder brown silt
LDW20-IT200	6/4/2020	0-45	2	N	0-10 cm dark grey silt; 10-35 cm brown silt with sand; remainder dark grey silt
LDW20-IT215	6/5/2020	0-45	1	N	0-40 cm sand; remainder gravel
LDW20-IT218	6/19/2020	0-45	2	Y	brown silt and coarse sand
LDW20-IT221	6/19/2020	0-45	2	Y	brown silt and coarse sand
LDW20-IT224	6/10/2020	0-45	1	Y	dark grey silt
LDW20-IT227	6/19/2020	0-45	2	Y	dark grey silt and fine to medium sand
LDW20-IT228	6/10/2020	0-45	1	Y	grey medium sand
LDW20-IT229	6/19/2020	0-45	2	Y	brown silt with medium and coarse sand
LDW20-IT232	6/4/2020	0-45	1	Y	dark grey fine silt
LDW20-IT233	6/19/2020	0-45	2	N	0-30 cm light brown silt; remainder dark brown/black silt and fine sand
LDW20-IT236	6/4/2020	0-45	1	Y	dark grey silt and fine sand
LDW20-IT239	6/19/2020	0-45	2	N	0-20 cm dark brown coarse sand, silt, and cobble; remainder is dark grey silt and fine sand
LDW20-IT240	6/5/2020	0-45	1	Y	dark brown and grey silt with sand; trace gravel
LDW20-IT243	6/4/2020	0-45	1	Y	dark grey silt with trace sand
LDW20-IT244	6/10/2020	0-45	1	N	silt throughout with a sand layer at 30-40 cm
LDW20-IT247	6/5/2020	0-45	1	Y	brown/grey silt with fine sand
LDW20-IT248	6/11/2020	0-45	1	Y	dark grey silt with sand
LDW20-IT252	6/11/2020	0-45	2	Y	dark grey silt with sand
LDW20-IT253	6/11/2020	0-45	1	Y	dark grey silt with sand
LDW20-IT256	6/19/2020	0-45	2	Y	dark brown silt and fine sand
LDW20-IT257	6/12/2020	0-45	1	N	0-10 cm sandy; remainder dark brown silt
LDW20-IT258	6/12/2020	0-45	1	N	color variation - 0-25 cm black/brown silt; remainder dark grey silt
LDW20-IT259	6/19/2020	0-45	2	Y	dark brown silt
LDW20-IT260	6/18/2020	0-45	2	Y	brown silt and fine to medium sand
LDW20-IT263	6/11/2020	0-45	2	Y	dark grey silt

Sample ID	Date Collected	Depth Interval (cm)	Tier	Homogeneous (Y/N)	Notes
LDW20-IT266	6/12/2020	0-45	1	Y	brown sandy silt
LDW20-IT267	6/18/2020	0-45	2	N	0-15 cm grey and light brown silt; remainder dark grey/black silt and medium sand
LDW20-IT268	6/11/2020	0-45	1	Y	dark grey silt with traces of brown in the top 10 cm
LDW20-IT272	6/11/2020	0-45	1	Y	dark grey silt
LDW20-IT300	6/25/2020	0-45	2	Y	grey/brown silt and fine sand;petroleum odor and sheen
LDW20-IT301	6/22/2020	0-45	1	Y	brown silt and coarse sand
LDW20-IT302	6/22/2020	0-45	1	Y	dark brown silt; slight H ₂ S odor
LDW20-IT303	6/24/2020	0-45	2	Y	dark grey and brown silt
LDW20-IT304	6/23/2020	0-45	1	Y	dark brown silt
LDW20-IT305	6/18/2020	0-45	2	Y	dark brown silt
LDW20-IT306	6/22/2020	0-45	1	Y	dark brown silt and sand
LDW20-IT307	6/24/2020	0-45	2	Y	dark brown silt with sand
LDW20-IT308	6/22/2020	0-45	1	Y	brown/black silt and fine sand
LDW20-IT309	6/22/2020	0-45	1	N	color variation 0-15 cm light brown silt; remainder dark brown/black silt
LDW20-IT310	6/5/2020	0-45	1	Y	brown/grey silt with fine sand
LDW20-IT311	6/23/2020	0-45	2	Y	brown and very dark grey silt; slight H ₂ S odor
LDW20-IT312	6/22/2020	0-45	1	Y	dark brown sand and silt
LDW20-IT313	6/23/2020	0-45	1	N	color variation 0-10 cm grey/green silt; remaining core black silt
LDW20-IT315	6/18/2020	0-45	2	Y	brown and dark grey silt
LDW20-IT316	6/22/2020	0-45	1	Y	olive brown/grey silt and fine sand
LDW20-IT317	6/23/2020	0-45	2	Y	medium brown/grey silt
LDW20-IT319	6/19/2020	0-45	1	N	0-10 cm brown silt; 10-20 cm grey coarse sand; remainder grey silt with fine sand
LDW20-IT320	6/22/2020	0-45	1	Y	dark grey silt with fine sand
LDW20-IT321	6/23/2020	0-45	2	Y	brown silt and coarse sand
LDW20-IT323	6/22/2020	0-45	1	Y	dark grey/black silt; some light brown silt in top 0-10 cm
LDW20-IT330	6/16/2020	0-45	1	Y	brown medium coarse sand and silt
LDW20-IT331	6/16/2020	0-45	1	N	color variation - 0-30 cm light brown silt; remainder brown/grey silt
LDW20-IT332	6/16/2020	0-45	1	Y	dark brown silt with sand
LDW20-IT334	6/10/2020	0-45	1	Y	dark grey silt
LDW20-IT354	6/9/2020	0-45	2	Y	dark grey silt
LDW20-IT356	6/9/2020	0-45	1	Y	dark grey silt
LDW20-IT357	6/9/2020	0-45	2	Y	dark grey silt
LDW20-IT358	6/18/2020	0-45	2	N	color variation 0-30 cm light brown silt and fine sand; remainder brown/black silt
LDW20-IT359	6/10/2020	0-45	1	Y	dark grey silt; moderate H ₂ S odor
LDW20-IT360	6/18/2020	0-45	2	Y	light brown silt
LDW20-IT361	6/5/2020	0-45	1	Y	dark grey silt
LDW20-IT363	6/9/2020	0-45	2	Y	dark grey silt
LDW20-IT364	6/10/2020	0-45	1	Y	dark grey silt
LDW20-IT365	6/5/2020	0-45	1	Y	grey medium sand
LDW20-IT367	6/17/2020	0-45	2	Y	light brown and black silt
LDW20-IT369	6/9/2020	0-45	1	Y	dark grey silt
LDW20-IT371	6/17/2020	0-45	2	Y	dark grey/brown silt
LDW20-IT372	6/9/2020	0-45	1	Y	dark grey silt
LDW20-IT373	6/10/2020	0-45	2	Y	dark grey silt

Sample ID	Date Collected	Depth Interval (cm)	Tier	Homogeneous (Y/N)	Notes
LDW20-IT374	6/10/2020	0-45	1	Y	dark grey silt
LDW20-IT375	6/10/2020	0-45	2	Y	dark grey silt
LDW20-IT376	6/18/2020	0-45	2	N	0-25 cm silt; remainder silt and coarse sand
LDW20-IT377	6/9/2020	0-45	1	Y	dark grey silt
LDW20-IT378	6/18/2020	0-45	2	Y	brown silt and sand
LDW20-IT379	6/9/2020	0-45	1	Y	dark grey silt
LDW20-IT382	6/17/2020	0-45	2	Y	brown silt with sand and gravel
LDW20-IT383	6/23/2020	0-45	1	Y	grey silt and sand
LDW20-IT384	6/23/2020	0-45	2	Y	brown silt
LDW20-IT385	6/17/2020	0-45	2	Y	brown/grey silt with coarse sand
LDW20-IT386	6/17/2020	0-45	2	Y	light brown and black silt
LDW20-IT387	6/16/2020	0-45	2	Y	brown medium sand
LDW20-IT388	6/16/2020	0-45	1	Y	grey/brown medium coarse sand
LDW20-IT389	6/16/2020	0-45	1	Y	dark brown coarse sand
LDW20-IT390	6/16/2020	0-45	1	Y	brown and grey medium and coarse sand
LDW20-IT391	6/16/2020	0-45	2	N	dark brown/grey 0-3 cm silt and sand; 3-7 cm gravel; 7-22 cm coarse sand and gravel; remainder silt and coarse sand
LDW20-IT400	6/22/2020	0-45	2	Y	medium grey silt
LDW20-IT401	6/22/2020	0-45	1	Y	brown/grey silt
LDW20-IT406	6/22/2020	0-45	1	Y	light brown silt and coarse sand
LDW20-IT409	6/16/2020	0-45	1	N	color variation - 0-15 cm light brown; remainder dark grey
LDW20-IT410	6/22/2020	0-45	2	Y	brown silt and coarse sand
LDW20-IT411	6/22/2020	0-45	1	Y	dark brown silt and sand
LDW20-IT415	6/23/2020	0-45	1	Y	light brown silt and fine sand
LDW20-IT416	6/17/2020	0-45	1	N	0-30 cm light brown silt; remainder silt with coarse sand
LDW20-IT417	6/19/2020	0-29	2	na	collected by hand with bowl and spoon; brown/grey silt and fine sand
LDW20-IT418	6/17/2020	0-45	1	N	0-30 cm brown silt; remainder medium to coarse sand
LDW20-IT419	6/17/2020	0-45	1	Y	brown silt with sand; slight H ₂ S odor
LDW20-IT421	6/16/2020	0-45	1	Y	brown sandy silt with rust-red streaks
LDW20-IT423	6/17/2020	0-45	1	Y	dark brown silt and coarse sand
LDW20-IT424	6/17/2020	0-45	1	N	color variation - 0-30 cm brown/black silt; remainder dark grey silt
LDW20-IT425	6/17/2020	0-45	2	Y	multi-colored sand with silt
LDW20-IT426	6/17/2020	0-45	1	Y	brown medium coarse sand w/gravel
LDW20-IT427	6/17/2020	0-45	2	Y	brown medium to coarse sand
LDW20-SC100	6/25/2020	0-60	2	Y	dark grey/black silt
LDW20-SC101	6/2/2020	0-60	1	Y	dark grey silt and fine sand
LDW20-SC102	6/2/2020	0-60	1	Y	dark grey silt with trace sand
LDW20-SC103	6/25/2020	0-60	2	Y	dark grey silt
LDW20-SC104	6/25/2020	0-60	2	Y	brown/grey silt and fine sand
LDW20-SC108	6/25/2020	0-60	2	Y	dark grey/olive brown silt
LDW20-SC109	6/1/2020	0-60	1	Y	dark grey silt and sand
LDW20-SC111	6/25/2020	0-60	2	N	0-10 cm grey silt and fine sand; 10-30 cm coarse sand; remainder dark grey silt and fine sand
LDW20-SC113	6/1/2020	0-60	1	Y	brown and grey fine silt and sand
LDW20-SC114	6/25/2020	0-60	2	Y	dark grey silt and fine sand
LDW20-SC115	6/25/2020	0-60	2	Y	dark grey silt

Sample ID	Date Collected	Depth Interval (cm)	Tier	Homogeneous (Y/N)	Notes
LDW20-SC117	6/2/2020	0-60	1	Y	dark grey fine silt and sand
LDW20-SC118	6/25/2020	0-60	2	Y	brown silt and fine sand
LDW20-SC119	6/25/2020	0-60	2	Y	dark grey silt
LDW20-SC121	6/2/2020	0-60	1	N	0-5 cm dark grey silt; 10-30 cm brown sand; remainder grey silt
LDW20-SC122	6/25/2020	0-60	2	Y	dark grey silt
LDW20-SC123	6/2/2020	0-60	1	Y	dark grey silt
LDW20-SC125	6/2/2020	0-60	1	Y	dark grey silt
LDW20-SC126	6/25/2020	0-60	2	Y	dark grey silt with fine sand
LDW20-SC128	6/24/2020	0-60	2	Y	grey and brown silt and sand
LDW20-SC129	6/25/2020	0-60	2	Y	dark grey silt with fine sand
LDW20-SC130	6/2/2020	0-60	1	N	color variation - 0-15 cm grey, remainder brown
LDW20-SC131	6/24/2020	0-60	2	Y	dark grey silt
LDW20-SC132	6/24/2020	0-60	2	Y	dark grey/brown silt and fine sand
LDW20-SC134	6/24/2020	0-60	2	N	0-40 cm brown silt and sand; remainder dark grey/brown silt
LDW20-SC135	6/3/2020	0-60	1	Y	dark grey silt with sand
LDW20-SC136	6/24/2020	0-60	2	Y	dark grey/brown silt
LDW20-SC138	6/25/2020	0-60	2	Y	dark grey silt and fine sand
LDW20-SC140	6/3/2020	0-60	1	N	color variation - 0-40 cm dark grey remainder brown sand; slight H₂S odor
LDW20-SC141	6/24/2020	0-60	2	Y	dark grey silt
LDW20-SC142	6/3/2020	0-60	1	N	0-15 cm contains gravel with dark grey silt; remainder uniform brown silt and sand; slight H₂S odor
LDW20-SC144	6/3/2020	0-60	1	Y	dark grey silt; moderate H ₂ S odor
LDW20-SC148A	6/8/2020	0-45.7	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC148B	6/8/2020	45.7-91.4	2	Y	dark grey silt; consistent throughout core for all sections; slight H ₂ S odor
LDW20-SC148C	6/8/2020	91.4-149.9	1	Y	dark grey silt; consistent throughout core for all sections; moderate H ₂ S odor
LDW20-SC149	6/25/2020	0-60	2	N	0-30 cm brown coarse sand and gravel; remainder dark grey silt and fine sand
LDW20-SC150	6/3/2020	0-60	1	N	0-20 cm gravel; remainder uniform
LDW20-SC153A	6/26/2020	0-75.0	2	Y	dark grey and brown silt; consistent throughout core for all sections
LDW20-SC153B	6/26/2020	75.0-135.0	2	Y	dark grey and brown silt; consistent throughout core for all sections
LDW20-SC153Z	6/26/2020	135.0-156	2	Y	dark grey and brown silt; consistent throughout core for all sections
LDW20-SC154	6/4/2020	0-60	1	Y	dark grey silt
LDW20-SC155A	6/8/2020	0-48.8	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC155B	6/8/2020	48.8-93.7	1	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC155Z	6/8/2020	108.8-138.8	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC156	6/3/2020	0-60	1	Y	dark grey silt and fine sand; slight H ₂ S odor
LDW20-SC157A	6/26/2020	0-85.9	2	Y	dark olive/grey silt; consistent throughout core for all sections; H ₂ S odor
LDW20-SC157Z	6/26/2020	85.9-115.9	2	Y	dark olive/grey silt; consistent throughout core for all sections; H ₂ S odor
LDW20-SC158	6/4/2020	0-60	1	Y	dark grey silt; moderate H ₂ S odor
LDW20-SC159	6/4/2020	0-60	1	Y	dark grey silt; slight H ₂ S odor
LDW20-SC160A	6/15/2020	0-61.25	2	Y	grey/brown silt and coarse sand
LDW20-SC160B	6/15/2020	61.25-122.5	2	Y	dark brown/grey silt
LDW20-SC160C	6/15/2020	122.5-182.5	1	Y	dark brown and grey silt
LDW20-SC160Z	6/15/2020	182.5-212.5	2	Y	dark brown/grey silt
LDW20-SC161	6/4/2020	0-60	1	N	0-40 cm silt; remainder sand
LDW20-SC162	6/3/2020	0-60	1	Y	dark grey sand with silt

Sample ID	Date Collected	Depth Interval (cm)	Tier	Homogeneous (Y/N)	Notes
LDW20-SC163A	6/26/2020	0-80.5	2	Y	dark brown/grey silt: consistent throughout core for all sections
LDW20-SC163B	6/26/2020	80.5-140.5	2	Y	dark brown/grey silt: consistent throughout core for all sections
LDW20-SC163Z	6/26/2020	140.5-170.5	2	Y	dark brown/grey silt: consistent throughout core for all sections
LDW20-SC164	6/4/2020	0-60	2	Y	brown and grey sand with silt; slight H ₂ S odor
LDW20-SC165	6/4/2020	0-60	2	Y	dark grey silt
LDW20-SC166A	6/8/2020	0-70.1	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC166B	6/8/2020	70.1-140.2	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC166C	6/8/2020	140.2-200.2	1	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC166Z	6/8/2020	200.2-226.1	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC167	6/4/2020	0-60	1	Y	dark grey silt
LDW20-SC168	6/4/2020	0-60	1	Y	dark grey silt
LDW20-SC169	6/5/2020	0-60	1	Y	dark grey silt with fine sand
LDW20-SC201A	6/25/2020	0-84.4	2	Y	grey and brown silt; consistent throughout core for all sections
LDW20-SC201B	6/25/2020	84.4-144.4	2	Y	grey and brown silt; consistent throughout core for all sections
LDW20-SC202	6/3/2020	0-60	1	Y	dark grey silt with fine sand
LDW20-SC203	6/3/2020	0-60	1	N	all dark grey silt except for a sand layer at 40-60 cm
LDW20-SC204A	6/15/2020	0-46	2	N	delineation between light brown sand and silt layers at 30 cm
LDW20-SC204B	6/15/2020	46-106	1	N	40-50 cm band of medium to coarse sand; remainder dark brown/grey silt and sand
LDW20-SC204Z	6/15/2020	106-136	2	Y	dark brown/grey silt and sand
LDW20-SC205A	6/23/2020	0-34.7	2	Y	brown medium sand; consistent throughout core for all sections
LDW20-SC205B	6/23/2020	34.7-94.7	2	Y	brown medium sand; consistent throughout core for all sections
LDW20-SC205Z	6/23/2020	94.7-124.7	2	Y	brown medium sand; consistent throughout core for all sections
LDW20-SC206	6/22/2020	0-60	2	Y	dark grey silt
LDW20-SC207A	6/23/2020	0-87.1	2	N	0-42 cm medium brown silt with fine sand; remainder silt; slight H₂S odor
LDW20-SC207Z	6/23/2020	87.1-117.1	2	Y	dark brown silt
LDW20-SC208A	6/8/2020	0-46.9	2	Y	dark grey silt; consistent throughout core for all sections; strong H ₂ S odor
LDW20-SC208B	6/8/2020	46.9-106.9	1	Y	dark grey silt; consistent throughout core for all sections; strong H ₂ S odor
LDW20-SC208Z	6/8/2020	106.9-136.9	2	Y	dark grey silt; consistent throughout core for all sections; strong H ₂ S odor
LDW20-SC209	6/23/2020	0-60	2	Y	dark grey silt
LDW20-SC210A	6/15/2020	0-31.4	2	Y	grey coarse sand
LDW20-SC210B	6/15/2020	31.4-91.4	1	N	30-60 cm - grey coarse sand; 60-90 cm dark grey silt and fine sand
LDW20-SC210Z	6/15/2020	91.4-121.4	2	Y	grey coarse sand
LDW20-SC211	6/3/2020	0-60	1	Y	dark grey silt
LDW20-SC212A	6/12/2020	0-89.0	1	Y	dark grey silt with sand; consistent throughout core for all sections
LDW20-SC212Z	6/12/2020	89.0-119	2	Y	dark grey silt with sand; consistent throughout core for all sections
LDW20-SC213A	6/23/2020	0-65.2	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC213Z	6/23/2020	65.2-95.2	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC214	6/4/2020	0-60	1	Y	dark grey silt
LDW20-SC216A	6/22/2020	0-46.2	2	Y	dark brown/black silt; consistent throughout core for all sections
LDW20-SC216B	6/22/2020	46.2-92.4	2	Y	dark brown/black silt; consistent throughout core for all sections
LDW20-SC216C	6/22/2020	92.4-152.4	2	Y	dark brown/black silt; consistent throughout core for all sections
LDW20-SC216Z	6/22/2020	152.4-182.4	2	Y	dark brown/black silt; consistent throughout core for all sections
LDW20-SC217A	6/12/2020	0-62.4	1	Y	dark grey silt with sand; consistent throughout core for all sections; moderate H ₂ S odor
LDW20-SC217Z	6/12/2020	62.4-90	2	Y	dark grey silt with sand; consistent throughout core for all sections; moderate H ₂ S odor

Sample ID	Date Collected	Depth Interval (cm)	Tier	Homogeneous (Y/N)	Notes
LDW20-SC219A	6/12/2020	0-51.35	2	Y	dark grey silt with sand; consistent throughout core for all sections
LDW20-SC219B	6/12/2020	51.35-102.7	2	Y	dark grey silt with sand; consistent throughout core for all sections
LDW20-SC219C	6/12/2020	102.7-162.7	1	Y	dark grey silt with sand; consistent throughout core for all sections
LDW20-SC219Z	6/12/2020	162.7-192.7	2	Y	dark grey silt with sand; consistent throughout core for all sections
LDW20-SC220A	6/12/2020	0-81.9	1	Y	dark grey silt and sand; consistent throughout core for all sections
LDW20-SC220Z	6/12/2020	81.9-111.9	2	Y	dark grey silt and sand; consistent throughout core for all sections
LDW20-SC222A	6/12/2020	0-67.7	2	N	color variation - 0-5 cm brown; remainder of section homogenous dark grey silt
LDW20-SC222B	6/12/2020	67.7-127.7	1	Y	dark grey silt
LDW20-SC222Z	6/12/2020	127.7-157.7	2	Y	dark grey silt
LDW20-SC223A	6/12/2020	0-82.9	1	Y	grey silt with sand; consistent throughout core for all sections
LDW20-SC223Z	6/12/2020	82.9-112.9	2	Y	grey silt with sand; consistent throughout core for all sections
LDW20-SC225A	6/22/2020	0-65.8	2	Y	dark brown/black silt; consistent throughout core for all sections
LDW20-SC225B	6/22/2020	65.8-125.8	2	Y	dark brown/black silt; consistent throughout core for all sections
LDW20-SC225Z	6/22/2020	125.8-155.8	2	Y	dark brown/black silt; consistent throughout core for all sections
LDW20-SC230A	6/12/2020	0-32.3	2	Y	dark grey silt with fine sand; consistent throughout core for all sections
LDW20-SC230B	6/12/2020	32.3-92.3	1	Y	dark grey silt with fine sand; consistent throughout core for all sections
LDW20-SC230Z	6/12/2020	92.3-122.3	2	Y	dark grey silt with fine sand; consistent throughout core for all sections
LDW20-SC231A	6/19/2020	0-72.5	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC231B	6/19/2020	72.5-132.5	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC231Z	6/19/2020	132.5-162.5	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC234A	6/19/2020	0-78.3	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC234B	6/19/2020	78.3-138.3	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC234Z	6/19/2020	138.3-168.3	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC235A	6/10/2020	0-48.2	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC235B	6/10/2020	48.2-108.2	1	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC235Z	6/10/2020	108.2-138.2	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC237A	6/19/2020	0-47.4	2	Y	dark brown/grey silt and fine sand; consistent throughout core for all sections
LDW20-SC237B	6/19/2020	47.4-94.8	2	Y	dark brown/grey silt and fine sand; consistent throughout core for all sections
LDW20-SC237C	6/19/2020	94.8-154.8	2	Y	dark brown/grey silt and fine sand; consistent throughout core for all sections
LDW20-SC237Z	6/19/2020	154.8-184.8	2	Y	dark brown/grey silt and fine sand; consistent throughout core for all sections
LDW20-SC238A	6/10/2020	0-53	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC238B	6/10/2020	53-113	1	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC238Z	6/10/2020	113-143	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC241A	6/19/2020	0-65.5	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC241B	6/19/2020	65.5-125.5	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC241Z	6/19/2020	125.5-155.5	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC242A	6/19/2020	0-87.5	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC242B	6/19/2020	87.5-147.5	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC242Z	6/19/2020	147.5-177.5	2	Y	dark grey silt and fine sand; consistent throughout core for all sections
LDW20-SC245A	6/11/2020	0-52.1	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC245B	6/11/2020	52.1-112.1	1	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC245Z	6/11/2020	112.1-142.1	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC246A	6/18/2020	0-57.3	2	Y	dark grey/black silt; consistent throughout core for all sections
LDW20-SC246B	6/18/2020	57.3-117.3	2	Y	dark grey/black silt; consistent throughout core for all sections
LDW20-SC246Z	6/18/2020	117.3-147.3	2	Y	dark grey/black silt; consistent throughout core for all sections

Sample ID	Date Collected	Depth Interval (cm)	Tier	Homogeneous (Y/N)	Notes
LDW20-SC249A	6/18/2020	0-40.5	2	N	0-10 cm light brown silt; 10-25 cm brown silt and coarse sand; remainder brown/black silt and fine sand
LDW20-SC249B	6/18/2020	40.5-100.5	2	Y	brown/black silt and fine sand
LDW20-SC249Z	6/18/2020	100.5-130.5	2	Y	brown/black silt and fine sand
LDW20-SC250A	6/10/2020	0-86	2	N	dark grey silt with trace sand; brown layer at 20 cm
LDW20-SC250B	6/10/2020	86-146	1	Y	dark grey silt with sand
LDW20-SC250Z	6/10/2020	146-176	2	Y	dark grey silt
LDW20-SC251	6/4/2020	0-60	1	N	0-30 cm dark grey silt; 30-50 cm fine sand; remainder dark grey silt; slight H₂S odor
LDW20-SC254A	6/18/2020	0-49.7	2	N	0-10 cm fine sand and silt; 10-30 cm coarse sand; remainder dark brown/dark grey silt and fine sand; H₂S odor
LDW20-SC254B	6/18/2020	49.-109.7	2	Y	dark brown/dark grey silt and fine sand; H ₂ S odor
LDW20-SC254Z	6/18/2020	109.7-139.7	2	Y	dark brown/dark grey silt and fine sand; slight H ₂ S odor
LDW20-SC255A	6/11/2020	0-88.7	2	Y	dark grey silt; consistent throughout core for all sections; moderate H ₂ S odor
LDW20-SC255B	6/11/2020	88.7-148.7	1	Y	dark grey silt; consistent throughout core for all sections; moderate H ₂ S odor
LDW20-SC255Z	6/11/2020	148.7-178.7	2	Y	dark grey silt; consistent throughout core for all sections; moderate H ₂ S odor
LDW20-SC261A	6/11/2020	0-64.6	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC261B	6/11/2020	64.6-124.6	1	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC261Z	6/11/2020	124.6-154.6	2	Y	dark grey silt; consistent throughout core for all sections
LDW20-SC262	6/18/2020	0-60	2	Y	dark brown/black silt
LDW20-SC264	6/4/2020	0-60	1	Y	dark grey silt
LDW20-SC265A	6/18/2020	0-76.5	2	Y	dark brown silt; consistent throughout core for all sections
LDW20-SC265B	6/18/2020	76.5-136.5	2	Y	dark brown silt; consistent throughout core for all sections
LDW20-SC265Z	6/18/2020	136.5-166.5	2	Y	dark brown silt; consistent throughout core for all sections
LDW20-SC269A	6/11/2020	0-86.9	2	Y	dark grey silt with trace fine sand
LDW20-SC269B	6/11/2020	86.9-146.9	1	Y	dark grey silt
LDW20-SC269Z	6/11/2020	146.9-176.9	2	Y	dark grey silt
LDW20-SC270A	6/18/2020	0-60	2	Y	dark grey silt with fine sand; consistent throughout core for all sections; H ₂ S odor
LDW20-SC270B	6/18/2020	60-120	2	Y	dark grey silt with fine sand; consistent throughout core for all sections; H ₂ S odor
LDW20-SC270Z	6/18/2020	120-150	2	Y	dark grey silt with fine sand; consistent throughout core for all sections; H ₂ S odor
LDW20-SC271	6/11/2020	0-60	2	Y	dark grey silt
LDW20-SC273	6/11/2020	0-60	2	Y	dark grey silt
LDW20-SC314	6/17/2020	0-60	2	Y	dark brown/black silt and fine sand
LDW20-SC318	6/4/2020	0-60	1	Y	dark grey silt
LDW20-SC322	6/5/2020	0-60	1	Y	dark grey silt; slight H ₂ S odor
LDW20-SC324	6/16/2020	0-60	1	Y	dark brown/black silt
LDW20-SC325	6/16/2020	0-60	2	Y	dark grey/black silt with brown streaks
LDW20-SC326	6/16/2020	0-60	1	Y	mix of light brown silt and sand throughout
LDW20-SC327	6/16/2020	0-60	1	Y	color deliniation 0-20 cm dark brown; remaining core dark grey silt
LDW20-SC328	6/16/2020	0-60	2	Y	dark grey silt with light brown streaks from 0-30 cm
LDW20-SC329	6/16/2020	0-60	2	Y	dark grey silt with rust colored spots
LDW20-SC333	6/10/2020	0-60	2	Y	dark grey silt
LDW20-SC335	6/9/2020	0-60	2	Y	dark grey silt
LDW20-SC336	6/5/2020	0-60	1	Y	dark grey silt; slight H ₂ S odor
LDW20-SC337	6/9/2020	0-60	2	Y	dark grey silt
LDW20-SC339	6/15/2020	0-60	2	Y	dark brown and grey fine silt
LDW20-SC340	6/15/2020	0-60	1	N	0-10 cm brownish silt; 10-20 cm dark grey silt and sand; remainder black silty sand

Sample ID	Date Collected	Depth Interval (cm)	Tier	Homogeneous (Y/N)	Notes
LDW20-SC342	6/15/2020	0-60	1	Y	dark brown/black silt
LDW20-SC343	6/15/2020	0-60	2	Y	dark brown and black silt and fine sand
LDW20-SC345	6/15/2020	0-60	1	Y	dark to medium grey silt and fine sand
LDW20-SC346	6/15/2020	0-60	1	Y	dark grey silt and fine sand
LDW20-SC348	6/15/2020	0-60	1	Y	dark brown and black silt and fine sand
LDW20-SC349	6/15/2020	0-60	1	Y	dark brown and black silt
LDW20-SC351	6/15/2020	0-60	1	Y	dark brown and grey silt
LDW20-SC353	6/15/2020	0-60	1	N	0-50 cm grey silt; remainder coarse brown sand
LDW20-SC355	6/9/2020	0-60	2	N	color variation - 0-40 cm brown/grey; remainder dark grey
LDW20-SC362	6/9/2020	0-60	2	N	color variation - 0-50 cm brown/grey; remainder dark grey
LDW20-SC366	6/17/2020	0-60	2	Y	grey brown medium sand with silt
LDW20-SC368	6/16/2020	0-60	1	Y	dark brown silt with medium sand
LDW20-SC370	6/17/2020	0-60	2	Y	brown medium sand with silt
LDW20-SC380	6/23/2020	0-60	2	Y	brown coarse sand
LDW20-SC381	6/16/2020	0-60	1	Y	brown coarse sand
LDW20-SC392	6/24/2020	0-60	1	Y	multi-color medium sand

Chain of Custody Forms

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3889

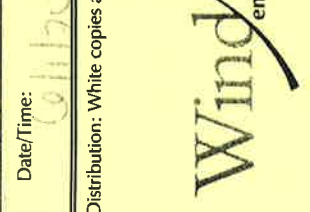
Project/Client Name: Duwamish A04
 Project Number: 180067-02.02
 Contact Name: A. Vandeventer
 Sampled By: Windward
 Ship to: ARI
 Attn: Amanda Volgast
 Shipper: Couvier
 Form filled out by: AV
 Shipping Date: 6/1/20
 Airbill Number:
 Turnaround requested: Sid

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					Pest/Insects	TCU/Gards	DF	metals	Alcove	PGB	
6/1/20	1027	LDW20-SC101	5	Sediment	X	X	NA	X	X	X	CPAH
	1110	LDW20-SC102	5	Sediment	X	X	NA	X	X	X	
	1246	LDW20-IT105	6		X	X	NA	X	X	X	
	1406	LDW20-SC109	6		X	X	X	X	X	X	
6/1/20	1441	LDW20-SC113	6	Sediment	X	X	NA	X	X	X	
Total Number of Containers				206	Purchase Order / Statement of Work # <u>CLF-0427200</u>						

1) Released by: [Signature] 2) Released by: _____
 Print name: A. Vandeventer Print name: _____
 Signature: [Signature] Signature: _____
 Company: Windward Company: _____
 Date/Time: 6/1/20 1027 Date/Time: _____

* Distribution: White copies accompany shipment; yellow retained by consignee.

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: _____
 Condition upon receipt: _____
 Cooler temperature: _____

Laboratory W.O. #: _____
 Time of receipt: _____
 Received by: _____

of

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3890

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: Amanda Vandervort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/2/20
 Shipper: Carrier Airbill Number: NA
 Form filled out by: AJV Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)									Comments / Instructions [Jar tag number(s)]
					PCBs/ SVOCs	Total Solids	PIC	metals/ metalloids	AICHC	COAH	PCBs	Arsenic		
6/2/20	0746	LDW20-IT106	60	Sediment	X	X	NA	-	X	X	X	X		
	0905	LDW20-SC102	5		X	X	NA	X	X	-	-	-		
	0832	LDW20-SC101	5		X	X	NA	X	X	-	-	-		
	0919	LDW20-SC117	5		X	X	NA	X	X	-	-	-		
	0942	LDW20-SC121	5		X	X	NA	NA	X	-	X	-		
	1047	LDW20-SC123	5		X	X	NA	X	X	-	-	-		
	1047	LDW20-SC123FD	5		X	X	NA	X	X	-	-	-		
	1059	LDW20-SC125	5		X	X	NA	X	X	-	-	-		
	1132	LDW20-IT105	60		X	X	NA	-	X	X	X	X		
	1351	LDW20-SC130	5		X	X	X	X	X	-	-	-		
6/2/20	1328	LDW20-IT127	60	Sediment	-	X	X	-	X	X	X	X		
Total Number of Containers			58	Purchase Order / Statement of Work # CLF-042720a										

1) Released by: Print name: <u>Amanda Vandervort</u> Signature: <u>A. Vandervort</u> Company: <u>Windward</u> Date/Time: <u>6/2/20 1626</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/2/20 1626</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
---------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------	------------------------------------------------------------------------	---------------------------------------------------------------------

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To be completed by Laboratory upon sample receipt:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3894

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: Amara Vandervoort
 Sampled By: Windward

Ship to: ARI
 Attn: Amara Vandervoort Shipping Date: 6/3/20
 Shipper: Courier J Airbill Number: NA
 Form filled out by: AV Turnaround requested: SH

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions [jar tag number(s)]
					PCB SVCS	TOC Solids	OIL	metals mercury	archive	CPAHS	PCBs	Arsenic	
6/3/20	0736	LOW20-IT733	6	Sediment	1	X	NA	1	X	X	X	X	
	0751	LOW20-SC140	5		X	X	NA	X	X	1	1	1	
	0818	LOW20-SC142	5		X	X	NA	X	X	1	1	1	
	0842	LOW20-SC150	5		X	X	NA	X	X	1	1	1	
	0928	LOW20-SC156	5		1	X	NA	NA	X	1	X	1	
	0944	LOW20-SC162	5		1	X	NA	NA	X	1	X	1	
	1124	LOW20-SC135	5		X	X	NA	X	X	1	1	1	
	1142	LOW20-SC202	5		X	X	NA	X	X	1	1	1	
	1214	LOW20-SC208	5		X	X	NA	X	X	1	1	1	
	1242	LOW20-SC211	5		X	X	NA	X	X	1	1	1	
	1242	LOW20-SC211FD	5		X	X	NA	X	X	1	1	1	
6/3/20	1315	LOW20-SC144	5	Sediment	1	X	NA	NA	X	1	X	1	
Total Number of Containers			61	Purchase Order / Statement of Work # CLE-042720									

1) Released by: <u>Amara Vandervoort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>Amara Vandervoort</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>	Date/Time: <u>6/3/20 1626</u>	Signature:	Date/Time:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/3/20 9:20am</u>		Date/Time:	

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3897

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: Amanda Vanderwaert
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Volgaardson
 Shipper: Couriers
 Form filled out by: AV
 Shipping Date: 6/3/20
 Airbill Number: NA
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions (Jar tag number(s))
					PCBI SVOCs	TUCL Solids	DIF	metals mercury	nickel	CPAHs	PCBs	Arsenic	
6/3/20	1331	LDW20-IT139	6	Sediment	1	X	NA	1	X	X	X	X	
	1346	LDW20-IT151	6	↓	1	X	NA	1	X	X	X	X	
6/3/20	1402	LDW20-IT146	6	Sediment	1	X	X	1	X	X	X	X	
Total Number of Containers			18	Purchase Order / Statement of Work # CLF-042720a									

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>A Vanderwaert</u>	<u>[Signature]</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/3/20 4:26pm</u>	Date/Time: <u>6/3/2020 1626</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3899

Project/Client Name: Duwamish A004
 Project Number: 180067 - 02.02
 Contact Name: Amara Vandervort
 Sampled By: Windward

Ship to: ARI
 Attn: Amara Vandervort
 Shipper: Courier
 Form filled out by: BQ
 Shipping Date: 6/4/2020
 Airbill Number: NA
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions (Jar tag number(s))
					POBs	POB/mix	TDC/Solids	D/F	Arsenic	metals/mercury	Archival	CPATHS	
6/4/2020	8:16	LDW20-SC166	5	Sediment	X	-	X	NA	-	NA	X	-	
"	8:44	LDW20-SC161	5	Sediment	X	-	X	NA	-	NA	X	-	
"	10:08	LDW20-IT236	6	Sediment	X	-	X	NA	X	-	X	NA	
LDW20-IT107													
6/4/2020	9:05	LDW20-SC167	5	Sediment	X	-	X	NA	-	NA	X	-	
	10:22	LDW20-SC214	5	Sediment	-	X	X	NA	-	X	X	-	
	09:34	LDW20-SC169	5		X	-	X	NA	NA	NA	X	-	
	11:05	LDW20-IT232	6		X	-	X	NA	X	-	X	NA	
	11:30	LDW20-SC318	5		X	-	X	NA	-	NA	X	-	
	11:38	LDW20-SC251	5		-	X	X	NA	-	X	X	-	
6/4/20	12:14	LDW20-SC264	5	Sediment	-	X	X	NA	-	X	NA	-	
Total Number of Containers			52	Purchase Order / Statement of Work # <u>PLF-042720a</u>									

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quinlan</u>	<u>[Signature]</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/4/2020 16:36</u>	Date/Time: <u>6/4/2020 16:30</u>	Date/Time:	Date/Time:

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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

NR 3901

Project/Client Name: Duwamish Acc 4
 Project Number: 180067-02.02
 Contact Name: Amara Vanderwolf
 Sampled By: Windward

Ship to: ARI
 Attn: Amara Vanderwolf Shipping Date: 6/15/20
 Shipper: Courier Airbill Number: _____
 Form filled out by: A Vanderwolf Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions [Jar tag number(s)]
					PCB Solids	PCB	TOC Solids	DIE	metals	metals	arsenic	nickel	
6/4/20	1354	LDW20SC159	5	sediment	-	X	X	NA	NA	-	X	-	
	1404	LDW20-SC154	5		-	X	X	NA	NA	-	X	-	
	1401	LDW20-SC158	5		-	X	X	NA	NA	-	X	-	
6/4/20	1309	LDW20-TT243	6	sediment	-	X	X	X	-	X	X	NA	
Total Number of Containers			21	Purchase Order / Statement of Work # CLF-042720a									
1) Released by: <u>THOM ITO</u>			1) Rec'd by: <u>[Signature]</u>			2) Released by:			2) Rec'd by:				
Print name: <u>THOM ITO</u>			Company: <u>ARI</u>			Print name:			Company:				
Signature: <u>[Signature]</u>			Date/Time: <u>6/15/20 0936</u>			Signature:			Date/Time:				
Company: <u>WINDWARD</u>			Date/Time: <u>6/15/20/0936</u>			Company:			Date/Time:				

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3904

Project/Client Name: Duwamish AOCF
 Project Number: 180067-02.02
 Contact Name: Amara Vanderhoff
 Sampled By: Windward

Ship to: ARI
 Attn: Amara Johnson
 Shipper: Carrier
 Form filled out by: AV
 Shipping Date: 6/15/2020
 Airbill Number:
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions (Jar tag number(s))
					PCBS	PCBS/ SVCS	TUCl Solids	DIF	Metal/ Mercury	ACTIVATED CARBON	Archive	CPHS	
6/15/20	0758	LDW ^{SC} 20-SC169	5	Sediment	X	-	X	NA	NA	-	X	-	
	0842	LDW20-IT224	6		X	-	X	NA	-	X	X	NA	
	0854	LDW20-IT215	6		X	-	X	X	-	X	X	NA	
	0912	LDW20-IT240	6		X	-	X	NA	-	X	X	NA	
	1003	LDW20-IT247	6		X	-	X	X	-	X	X	NA	
	1032	LDW20-IT310	6		X	-	X	NA	-	X	X	NA	
	1045	LDW20-SC322	5		-	X	X	NA	X	-	X	-	
	1054	LDW20-SC336	5		-	X	X	X	X	-	X	-	
	1054	LDW20-SC336FD	5		-	X	X	X	X	-	X	-	
	1122	LDW20-IT365	6		-	X	X	NA	X	-	X	NA	
	1122	LDW20-IT365FD	6		-	X	X	NA	X	-	X	NA	
6/15/20	1306	LDW20-IT361	6	Sediment	-	X	X	NA	X	-	X	NA	
Total Number of Containers			68	Purchase Order / Statement of Work # <u>CLF-042720a</u>									

1) Released by: <u>Amara Vanderhoff</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by: <u> </u>	2) Rec'd by: <u> </u>
Print name: <u>Amara Vanderhoff</u>	Company: <u>Windward</u>	Print name: <u> </u>	Company: <u> </u>
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature: <u> </u>	Company: <u> </u>
Date/Time: <u>6/15/20 15:49</u>	Date/Time: <u>6/15/2020 15:49</u>	Date/Time: <u> </u>	Date/Time: <u> </u>

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Condition upon receipt: <u> </u>	Time of receipt: <u> </u>
Cooler temperature: <u> </u>	Received by: <u> </u>

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3848

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: A Vandervoort
 Sampled By: Woodward

Ship to: ARI
 Attn: Amanda Johnson
 Shipper: Courier
 Form filled out by: AV
 Shipping Date: 6/18/20
 Airbill Number: NA
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					PCBs	PCB SVOCs	TOTG Solids	DF	metals/mercury	ACCHVE	
6/18/20	0841	LDW20-SC148C	5	Sediment	1	X	X	NA	X	X	
	1036	LDW20-SC155B	5	"	1	X	X	NA	X	X	
	12:37	LDW20-SC166C	5	"	1	X	X	NA	X	X	
6/18/20	1438	LDW20-SC208B	5	Sediment	1	X	X	X	X	X	
<i>AV</i> <i>6/18/20</i>											

Total Number of Containers: 30 Purchase Order / Statement of Work # CLF-042720a

1) Released by: <u>A Vandervoort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>A Vandervoort</u>		Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Woodward</u>		Company:	
Date/Time: <u>6/18/20 1620</u>	Date/Time: <u>6/18/20 1620</u>	Date/Time:	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: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3908

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: A Vanderwort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/19/20
 Shipper: Carrier Airbill Number:
 Form filled out by: A Vanderwort Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions [Jar tag number(s)]
					PCB	PCB/ SVOCs/HCB	TOC/ Solids	DIF	metals/ mercury	Arsenic	Acetone	CPATH	
06/19/20	0803	LDW20-IT356	6	Sediment	X	-	X	X	-	X	X	NA	
0954	 	LDW20-SC364	5		X	-	X	NA	-	X	X	NA	AV
	1055	LDW20-IT369	6		X	-	X	X	-	X	X	NA	
	1102	LDW20-IT372	6		X	-	X	NA	-	X	X	NA	
	1109	LDW20-IT377	6		X	-	X	NA	-	X	X	NA	
	1216	LDW20-IT379	6		X	X	X	X	X	X	X	NA	
06/19/20	1216	LDW20-IT379 FO	6	Sediment	-	X	X	X	X	-	X	NA	
Total Number of Containers			<u>36</u> <u>41AV</u>	Purchase Order / Statement of Work # <u>CLF-042720a</u>									

1) Released by: <u>A Vanderwort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by: <u> </u>	2) Rec'd by: <u> </u>
Print name: <u>A Vanderwort</u>	Company: <u>ARI</u>	Print name: <u> </u>	Company: <u> </u>
Signature: <u>[Signature]</u>		Signature: <u> </u>	
Company: <u>Windward</u>		Company: <u> </u>	
Date/Time: <u>6/19/20 1600</u>	Date/Time: <u>6/19/2020 1600</u>	Date/Time: <u> </u>	Date/Time: <u> </u>

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Date of receipt: <u> </u>	Laboratory W.O. #: <u> </u>
Condition upon receipt: <u> </u>	Time of receipt: <u> </u>
Cooler temperature: <u> </u>	Received by: <u> </u>

of

CHAIN-OF-CUSTODY/TEST REQUEST FORM

NO 3.88

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: A. Vandervort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/10/20
 Shipper: Courier Airbill Number: ---
 Form filled out by: A. Vandervort Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)										Comments / Instructions (jar tag number(s))
					PCBS	PCB1 SUOC/HCS	TOC1 Solids	DIF	metals mercury	arsenic	arsenic	CPHS			
06/20/20	0719	LDW20-TT364	6	Sediment	X	X	X	NA	X	X	NA				
06/20/20	0808	LDW20-TT224	6		X	X	X	NA	X	X	NA				
	0840	LDW20-TT334	6		X	X	X	NA	X	---	NA	NA			
	0840	LDW20-TT334E0	6									AV			
	0908	LDW20-TT359	6		X	X	X	X	---	X	X	X			
	0923	LDW20-TT374	6		X	X	X	X	---	X	X	X			
	1051	LDW20-SC238B	5		X	X	X	NA	X	---	X	---			
	1149	LDW20-TT228	6		X	X	X	X	X	X	X	NA			
	1208	LDW20-SC235B	5		X	X	X	NA	X	---	X	---			
	1255	LDW20-SC250B	5		X	X	X	NA	X	---	X	---			
06/20/20	1334	LDW20-TT244	6	Sediment	X	X	X	X	---	X	X	NA			

Total Number of Containers

57

Purchase Order / Statement of Work # CLF-0427209

1) Released by:
 Print name: A. Vandervort
 Signature: [Signature]
 Company: Windward
 Date/Time: 6/10/20 11:31

1) Rec'd by:
 [Signature]
 Company: ARI
 Date/Time: 6/10/20 20:16:31

2) Released by:
 Print name:
 Signature:
 Company:
 Date/Time:

2) Rec'd by:
 Company:
 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:

TIER 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3947

Project/Client Name: Diwamish AOC4
 Project Number: 180067-02.02
 Contact Name: Amara Vandervort
 Sampled By: _____

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/11/2020
 Shipper: Courier Airbill Number: NA
 Form filled out by: Brandi Quinlisic Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions (Jar tag number(s))
					PCB/ SVOCs	PCPs	TOC/ Solids	D/F	Arsenic	metals/ mercury	Archive	ePA115	
6/11/2020	07:21	LDX020-IT24B	6	Sediment	X	-	X	NA	-	X	X	NA	
	07:52	-IT253	6		X	-	X	NA	-	X	X	NA	
	07:52	-IT253 FD	6		X	-	X	NA	-	X	X	NA	
	8:10	-IT272	6		X	-	X	NA	-	X	X	NA	
	9:11	-SC269B	5		X	-	X	NA	-	X	X	-	
	9:30	-SC261B	5		X	-	X	NA	-	X	X	-	
	10:13	-SC255B	5		X	-	X	NA	-	X	X	-	
	11:51	-SC245B	5		X	-	X	NA	-	X	X	-	
	12:38	-IT26B	6		-	X	X	NA	X	-	X	NA	
Total Number of Containers			50	Purchase Order / Statement of Work # <u>PLF-042720a</u>									

1) Released by: <u>Brandi Quinlisic</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by: _____	2) Rec'd by: _____
Print name: <u>Brandi Quinlisic</u>	Company: <u>ARI</u>	Print name: _____	Company: _____
Signature: <u>[Signature]</u>	Company: <u>Windward</u>	Signature: _____	Company: _____
Date/Time: <u>6/11/2020 14:04</u>	Date/Time: <u>6/11/2020 1604</u>	Date/Time: _____	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: _____

of

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3854

Project/Client Name: Duwamish Acc 4
 Project Number: 180067-0202
 Contact Name: A Vandervort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson
 Shipping Date: 6/12/20
 Shipper: Courier
 Airbill Number: NA
 Form filled out by: A Vandervort
 Turnaround requested: Sid

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions [Jar tag number(s)]
					PCB	PCB/ SUBC/HCB	TOC/ Solids	DIF	metals	metals	AISCN	ArcHAB	
6/12/20	0722	LDW20-IT257	6	Sediment	X	X	X	X	X	X	X	X	NA
	0732	LDW20-IT258	6		X	X	X	X	X	X	X	X	NA
	0741	LDW20-IT260	6		X	X	X	X	X	X	X	X	NA
	0807	LDW20-SC230B	S		X	X	X	NA	X	X	X	X	NA
	0829	LDW20-SC223A	S		X	X	X	NA	X	X	X	X	NA
	0858	LDW20-SC222B	S		X	X	X	NA	X	X	X	X	NA
	0923	LDW20-SC220A	S		X	X	X	NA	X	X	X	X	NA
	1122	LDW20-SC217A	S		X	X	X	NA	X	X	X	X	NA
	0946	LDW20-SC219C	S		X	X	X	NA	X	X	X	X	NA
6/12/20	1306	LDW20-SC212A	5	Sediment	X	X	X	X	X	X	X	X	NA

Total Number of Containers: 53 Purchase Order / Statement of Work # CLF-0427206

1) Released by: <u>A Vandervort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>A Vandervort</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>	Date/Time: <u>6/12/20 1628</u>	Signature:	Date/Time:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/12/20 1628</u>		Date/Time:	

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

19 3082

Project/Client Name: Duwamish AOC4
 Project Number: 180067-0202
 Contact Name: A Vandervort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Thoren Shipping Date: 6/15/20
 Shipper: Carrier Airbill Number: NA
 Form filled out by: AV Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions (Jar tag number(s))
					PCBs	PCB1 SUBC/HCB	TOC1 Solids	DIF	metals mercury	arsenic	Archive	CPHs	
6/15/20	0718	LDW20-SC340	5	Sediment	X	1	X	NA	NA	1	X		
	0724	-SC342	5		X	1	X	NA	NA	1	X		
	0735	-SC346	5		X	X	X	NA	X	1	X		
	0856	-SC345	5		X	X	X	NA	X	1	X		
	0910	-SC349	5		X	X	X	X	X	1	X		
	0927	-SC348	5		X	1	X	NA	NA	1	X		
	0934	-SC353	5		X	1	X	NA	NA	1	X		
	0940	-SC351	5		X	X	X	X	X	1	X		
	0910	-SC349ED	5		X	X	X	X	X	1	X		
	1129	-SC160C	5		X	X	X	NA	X	1	X		
	1239	-SC210B	5		X	X	X	X	X	1	X		
6/15/20	1327	LDW20-SC204B	5	Sediment	X	X	X	X	X	1	X		
Total Number of Containers			60	Purchase Order / Statement of Work # <u>CLF-042720a</u>									

1) Released by:	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>Amanda Vandervort</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>		Signature:	
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/15/20 11634</u>	Date/Time: <u>6/15/20 20 1634</u>	Date/Time:	Date/Time:

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TIEK 1

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3914

Project/Client Name: Duwamish Area 4
 Project Number: 180067-02.02
 Contact Name: Amara Vanderjort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/16/2020
 Shipper: Courier Airbill Number: N/A
 Form filled out by: B. Quinlisk Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions [Jar tag number(s)]	
					PCBs	Pbys/ Svcs	TPOC/ solids	DF	Arsenic	Metals/ mercury	Archive	CPATHS		
6/16/2020	7:20	LDW20-SC324	5	Sediment	X	-	X	NA	-	NA	X	-		
	8:02	LDW20-SC327	5	Sediment	X	-	X	NA	-	NA	X	-		
	7:50	LDW20-SC326	5	Sediment	X	-	X	NA	-	NA	X	-		
	8:32	LDW20-IT332	5	Sediment	X	-	X	X	X	-	X	NA		
	9:16	LDW20-SC368	5	Sediment	-	X	X	NA	-	X	X	-		
	10:29	LDW20-IT421	6	Sediment	X	-	X	NA	X	-	X	X		
	10:36	LDW20-IT409	6	Sediment	X	-	X	NA	X	-	X	X		
	9:51	LDW20-SC381	5	Sediment	X	-	X	NA	-	NA	X	-		
	11:29	LDW20-IT330	6	Sediment	X	-	X	X	X	-	X	NA		
	11:34	LDW20-IT331	6	Sediment	X	-	X	NA	X	-	X	NA		
	12:01	LDW20-IT388	6	Sediment	-	X	X	NA	-	X	X	NA		
	12:58	LDW20-IT390	6	Sediment	X	-	X	NA	X	-	X	X		
Total Number of Containers			67	Purchase Order / Statement of Work # CCF-042720a										

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quinlisk</u>		Print name:	
Signature: <u>Brandi Quinlisk</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/16/2020 15:48</u>	Date/Time: <u>6/16/2020 1548</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3917

Project/Client Name: Duwamish Area
 Project Number: 180067-02.02
 Contact Name: Amara Vandervort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Volgardson Shipping Date: 6/16/2020
 Shipper: Gourier Airbill Number: NA
 Form filled out by: B. Quinlisk Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					PCBs	TOC/ Solids	D/F	Arsenic	Aroclene	n PAHS	
6/16/2020	12:08	LDW20-17389	6	Sediment	X	X	X	X	X	X	
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Total Number of Containers			6	Purchase Order / Statement of Work # <u>CLF-042720a</u>							
1) Released by: <u>Brandi Quinnisk</u>			1) Rec'd by: <u>[Signature]</u>			2) Released by:			2) Rec'd by:		
Print name: <u>Brandi Quinnisk</u>			Company: <u>ARI</u>			Print name:			Company:		
Signature: <u>[Signature]</u>			Date/Time: <u>6/16/2020 15:48</u>			Signature:			Date/Time:		
Company: <u>Windward</u>			Date/Time: <u>6/16/2020 15:48</u>			Company:			Date/Time:		

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1182 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3919

Project/Client Name: Duwanish AOC4
 Project Number: 180067-02.02
 Contact Name: Amara Vandervort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/17/2020
 Shipper: Courier Airbill Number: NA
 Form filled out by: B. Quinusk Turnaround requested: Std.

* Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions [Jar tag number(s)]
					PCBs	POBs/SVOs	TOC/Solids	D/F	Arsenic	Metals/mercury	Asbestos	PHAs	
6/17/2020	7:32	LDW20-IT416	6	Sediment	X	-	X	NA	X	-	X	NA	
	7:49	LDW20-IT418	6	Sediment	X	-	X	NA	X	-	X	NA	
	7:58	LDW20-IT423	6	Sediment	X	-	X	NA	X	-	X	NA	
	8:05	LDW20-IT424	6	Sediment	X	-	X	NA	X	-	X	NA	
	8:15	LDW20-IT426	6	Sediment	X	-	X	NA	X	-	X	NA	
	8:26	LDW20-IT425											
	8:33	LDW20-IT427											
6/17/2020	12:36	LDW20-IT419	6	Sediment	X	-	X	X	X	-	X	NA	
Total Number of Containers			36	Purchase Order / Statement of Work # <u>PLF-642720a</u>									

1) Released by: <u>Brandi Quinusk</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quinusk</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>		Signature:	
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/17/2020 16:02</u>	Date/Time: <u>6/17/2020 16:02</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3087

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: A. Vanderwolf
 Sampled By: W. Woodward

Ship to: ARI
 Attn: Aracelis Johnson Shipping Date: 6/19/20
 Shipper: courier Airbill Number: NA
 Form filled out by: AV Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions [Jar tag number(s)]
					PCB	PCB Diox/HCB	TOC Solids	DIF	Metals	Mercury	Arsenic	Asbestos	
6/19/20	0717	LOW20-IT319	6	Sediment	X	-	X	NA	-	X	X	NA	
Total Number of Containers			<u>6</u>	Purchase Order / Statement of Work # <u>CLF-0427200</u>									

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>A Vanderwolf</u>	Print name: <u>[Signature]</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Woodward</u>		Company:	
Date/Time: <u>6/19/20 1632</u>	Date/Time: <u>6/19/20 201632</u>	Date/Time:	Date/Time:

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3858

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: A Vanderwolf
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/22/20
 Shipper: Carrier Airbill Number: _____
 Form filled out by: A Vanderwolf Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)										Comments / Instructions [Jar tag number(s)]
					PCB	PCB SVOC/HCB	TOC/ Solids	DIF	Metals/ Mercury	AsBoric	Archive	CPAHs			
6/22/20	0713	LDW20-IT301	6	Sediment	X	-	X	X	-	X	X	NA			
	0720	IT302	6		X	-	X	NA	-	X	X	NA			
	0729	IT306	6		X	-	X	NA	-	X	X	NA			
	0735	IT309	6		X	-	X	NA	-	X	X	NA			
	0740	IT312	6		X	-	X	NA	-	X	X	NA			
	0752 ⁴⁵ AM	IT316	6		X	-	X	NA	-	X	X	NA			
	0757 ³⁰ AM	IT320	6		X	-	X	NA	-	X	X	NA			
	0811 ⁰⁷ AM	IT323	6		X	-	X	NA	-	X	X	NA			
	0811	IT308	6		X	-	X	NA	-	X	X	NA			
	0927	IT401	6		X	-	X	NA	-	X	X	NA			
	0946	IT406	6		X	-	X	NA	-	X	X	NA			
6/22/20	1035	LDW20 IT411	6		X	-	X	NA	-	X	X	NA			
Total Number of Containers			72	Purchase Order / Statement of Work # CLF-042720a											

1) Released by: <u>A Vanderwolf</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>A Vanderwolf</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>		Signature:	
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/22/20 1547</u>	Date/Time: <u>6/22/20 1547</u>	Date/Time:	Date/Time:

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Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3865

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: A. Vandervoort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/22/20
 Shipper: Cerber Airbill Number: _____
 Form filled out by: AVandervoort Turnaround requested: Sid

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions (Jar tag number(s))
					PCB	PCB SUBC/HCB	TOC/ Solids	DF	metals	metals	Archieve	
6/22/20	1035	LW20-SS411	5	Sediment	-	X	X	NA	X	X		
AV 6/22/20												
Total Number of Containers			5	Purchase Order / Statement of Work # CLF-042720a								

1) Released by: <u>AVandervoort</u> Print name: <u>AVandervoort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/22/20 1547</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/22/20 1547</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Company: _____ Date/Time: _____
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3870

Project/Client Name: Duwanishi AOC4
 Project Number: 180067-02.02
 Contact Name: Amara Vandervort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Volhardsen
 Shipper: Courier
 Form filled out by: B. Quinlisk
 Shipping Date: 6/23/2020
 Airbill Number: NA
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions [Jar tag number(s)]
					Pbss	Pbcs / Svocs	Tpc / Solids	D/F	Arsenic	Metals / Mercury	Archive	CPATHs	
6/23/2020	6:15	LDW20-1T383	6	Sediment	X	-	X	NA	X	-	X	X	
	8:43	↓ - 1T313	6	↓	X	-	X	NA	X	-	X	NA	
	9:14	↓ - 1T304	6	↓	X	-	X	X	X	-	X	NA	
	10:16	↓ - 1T415	6	↓	X	-	X	NA	X	-	X	NA	
Total Number of Containers			24	Purchase Order / Statement of Work # <u>PLF-042720a</u>									

1) Released by: <u>Brandi Quinlisk</u> Print name: <u>Brandi Quinlisk</u> Signature: <u>Brandi Quinlisk</u> Company: <u>Windward</u> Date/Time: <u>6/23/2020 15:35</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/23/2020 1535</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Company: _____ Date/Time: _____
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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

110 3927

Project/Client Name: Durham 5th Ave 4
 Project Number: 180667-02.02
 Contact Name: Amanda Vanderveit
 Sampled By: Windward

Ship to: Harold L. Benny Associates
 Attn: Harold Benny
 Shipper: Cowner
 Form filled out by: B. Quinlisk
 Shipping Date: 6/24/2020
 Airbill Number: N/A
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)			Comments / Instructions (Jar tag number(s))
					Gran size	PSEP		
6/24/2020	7:57	CDW70-SC392	1	Sediment	X			
Total Number of Containers								
Purchase Order / Statement of Work # <u>ACF-0427206</u>								
1) Released by: <u>Brandi Quinlisk</u>			1) Rec'd by: <u>[Signature]</u>			2) Rec'd by: _____		
Print name: <u>Brandi Quinlisk</u>			Print name: _____			Print name: _____		
Signature: <u>[Signature]</u>			Signature: _____			Signature: _____		
Company: <u>Windward</u>			Company: <u>ARI</u>			Company: _____		
Date/Time: <u>6/24/2020 16:23</u>			Date/Time: <u>6/24/20 16:23</u>			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: _____



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02-02
 Contact Name: Amanda Vanderweert
 Sampled By: KM, JH

Ship to: ARI
 Attn: Amanda Volgardson
 Shipper: carrier
 Form filled out by: K. McPeak
 Shipping Date: _____
 Airbill Number: N/A
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					PCBs/ SVOCs	TOC/ SOLIDS	DF	Metals, Hg	Asbestos		
6/5/20	0644	LOW20-SS159	5	Sediment	X	X	X	X	X		
	0723	-SS167	5		X	X	NA	X	X		
	0742	-SS158	5		X	X	NA	X	X		
	0810	-SS154	5		X	X	NA	X	X		
	0900	-SS168	5		X	X	NA	X	X		
	1038	-SS101	5		X	X	NA	X	X		
	1059	-SS102	5		X	X	NA	X	X		
	1059	-SS102-FD	5		X	X	NA	X	X		
	1132	-SS109	5		X	X	X	X	X		
	1132	-SS109-FD	5		X	X	X	X	X		
	1242	-SS113	5		X	X	NA	X	X		
	1329	-SS117	5		X	X	NA	X	X		

Total Number of Containers: 60 Purchase Order / Statement of Work # CLF-012720a

1) Released by: _____ Print name: <u>A. Vanderweert</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/5/20 1549</u>	1) Rec'd by: _____ Company: <u>ARI</u> Date/Time: <u>6/5/2020 1549</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Company: _____ Date/Time: _____
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Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3315

Project/Client Name: Duwamish Accy
 Project Number: 180067-02-02
 Contact Name: Amara Vandervoort
 Sampled By: KM, JH

Ship to: ARI
 Attn: Amanda Volgaiden
 Shipper: Courier
 Form filled out by: K. McPeck
 Shipping Date: _____
 Airbill Number: N/A
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					PCBs, SVOCs	TOC, Solids	DF	metals, Hg	Archieve		
6/5/20	1402	CDW20-SS169	5	sediment	X	X	NA	X	X		
<i>K. McPeck 6/5/20</i>											
Total Number of Containers			5	Purchase Order / Statement of Work # CLF-042720a							
1) Released by: <u>Amara Vandervoort</u>		1) Rec'd by: <u>[Signature]</u>			2) Released by: _____		2) Rec'd by: _____				
Print name: <u>Amara Vandervoort</u>		Company: <u>ARI</u>			Print name: _____		Company: _____				
Signature: <u>[Signature]</u>		Date/Time: <u>6/5/20 1549</u>			Signature: _____		Date/Time: _____				
Company: <u>Windward</u>		Date/Time: <u>6/5/20 1549</u>			Company: _____		Date/Time: _____				

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

NR 3332

Project/Client Name: Duwamish AOCY
 Project Number: 180067-02.02
 Contact Name: Amaria Vandervort
 Sampled By: KM, RM

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/10/20
 Shipper: Courier Airbill Number: NA
 Form filled out by: K. McPeak Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					PCBS, STOLS	TOC, Solids	DF	metals, Hg	arbit		
6/10/20	0746	LOW20-SS356	5	Sediment	X	X	X	X	X		
	0810	-SS364	5		X	X	NA	X	X		
	0909	-SS338	5		X	X	NA	X	X		
	0909	-SS338-FD	5		X	X	NA	X	X		
	0943	-SS336	5		X	X	X	X	X		
	1137	-SS106	5		X	X	NA	X	X		
	1205	-SS121	5		X	X	NA	X	X		
	1226	-SS123	5		X	X	NA	X	X		
	1226	-SS123-FD	5		X	X	NA	X	X		
	1252	-SS125	5		X	X	NA	X	X		
	1328	-SS130	5		X	X	X	X	X		
	1328	-SS130-FD	5		X	X	X	X	X		

Total Number of Containers: 60 Purchase Order / Statement of Work # CLF-042720g

1) Released by: <u>A. Vandervort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>A. Vandervort</u>		Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Vandervort</u>		Company:	
Date/Time: <u>6/10/20 1631</u>	Date/Time: <u>6/10/2020 1631</u>	Date/Time:	Date/Time:

* Distribution: White copies accompany shipment; yellow retained by consignor.



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 Fax: (206) 217-9343

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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3359

Project/Client Name: Duwamish ARL4
 Project Number: 180067-02.02
 Contact Name: Amara Vanderaat
 Sampled By: KM, RM

Ship to: AKI
 Attn: Amenda Volgardsen Shipping Date: 6/10/20
 Shipper: Courier Airbill Number: N/A
 Form filled out by: K. McPhee Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [jar tag number(s)]
					PCBs, SVOCs	TAC, Solids	DF	metals, Hg	archive			
6/10/20	1328 ^{pm} 1558	LDW20-551305	5	Sediment	X	X	NA	X	X			
Amara Vanderaat 6/10/20												
Total Number of Containers			5	Purchase Order / Statement of Work # <u>CLF-0427209</u>								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Amara Vanderaat</u>	<u>[Signature]</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>AKI</u>	Signature:	Company:
Company: <u>Vanderaat</u>		Company:	
Date/Time: <u>6/10/20 (631)</u>	Date/Time: <u>6/10/2020 1631</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3335

Project/Client Name: Duwamish A004
 Project Number: 180067-0202
 Contact Name: Amanda Vanderveort
 Sampled By: RM KM

Ship to: ARI
 Attn: Amanda Vanderveort Shipping Date: _____
 Shipper: curier Airbill Number: NA
 Form filled out by: K. McPeak + RM Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					PCB, SVOCs	TCU, Solids	DF	metals, Hg	Arsenic		
6/11/20	0841	66W20-SS169	5	Sediment	X	X	NA	X	X		
	0916	-SS113	5		X	X	NA	X	X		
	1030	-SS146	5		X	X	X	X	X		
	1053	-SS139	5		X	X	NA	X	X		
	1120	-SS127	5		X	X	X	X	X		
	1120	-SS127-FD	5		X	X	X	X	X		
	1142	-SS133	5		X	X	NA	X	X		
	1250	-SS140	5		X	X	NA	X	X		
	1316	-SS142	5		X	X	NA	X	X		
	1336	-SS144	5		X	X	NA	X	X		
	1358	-SS148	5		X	X	NA	X	X		
Total Number of Containers			55	Purchase Order / Statement of Work # <u>OLF-0429200</u>							

1) Released by: Print name: <u>Brandi Quintise</u> Signature: <u>Brandi Quintise</u> Company: <u>Windward</u> Date/Time: <u>6/11/2020 16:02</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/11/2020 1550</u>	2) Released by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: Company: _____ Date/Time: _____
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3336

Project/Client Name: Duwamish ADCY
 Project Number: 180067-02.02
 Contact Name: Amara Valgardson
 Sampled By: RM, KM

Ship to: ALI
 Attn: Amara Valgardson
 Shipper: Carrier
 Form filled out by: K. McPeck
 Shipping Date: _____
 Airbill Number: NA
 Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					PEBS SVALS	TAC Solids	DF	Metals Hg	Metals Pb	Metals Cu	
06/12/20	0754	LQW20-SS253	5	sediment	X	X	NA	X	X		
	0841	-SS248	5		X	X	NA	X	X		
	0922	-SS272	5		X	X	NA	X	X		
	1102	-SS151	5		X	X	NA	X	X		
	1102	-SS151-FD	5		X	X	NA	X	X		
	1128	-SS150	5		X	X	NA	X	X		
	1227	-SS155	5		X	X	NA	X	X		
	1245	-SS156	5		X	X	NA	X	X		
	1301	-SS162	5		X	X	NA	X	X		
	1323	-SS166	5		X	X	NA	X	X		
Total Number of Containers			<u>50</u>	Purchase Order / Statement of Work # <u>CLF-042720a</u>							

1) Released by: _____	1) Rec'd by: _____	2) Released by: _____	2) Rec'd by: _____
Print name: <u>Amara Valgardson</u>	Company: <u>ARI</u>	Print name: _____	Company: _____
Signature: _____	Date/Time: <u>6/12/2020 1628</u>	Signature: _____	Date/Time: _____
Company: <u>ARI</u>		Company: _____	
Date/Time: <u>6/12/20 1628</u>		Date/Time: _____	

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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

NO 3339

Project/Client Name: Duwamish A004
 Project Number: 180067-02.02
 Contact Name: Amya Vanderwort
 Sampled By: JH, KM

Ship to: ARI
 Attn: Amanda Volgaardson Shipping Date: 6/15/20
 Shipper: casper Airbill Number: NA
 Form filled out by: K. McPeak Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [Jar tag number(s)]
					PCBs, SVOCs	TOC, Solids	DF	Metals, Hg	archive			
06.15.20	0812 ⁴	LOW20-SS215	5	sediment	X	X	X	X	X			✓
	0841	-SS214	5		X	X	NA	X	X			✓
	0902	-SS212	5		X	X	X	X	X			✓
	0930	-SS202	5		X	X	NA	X	X			✓
	0953	-SS203	5		X	X	NA	X	X			✓
	1048	-SS341	5		X	X	NA	X	X			✓
	1111	-SS347	5		X	X	NA	X	X			✓
	1219	-SS350	5		X	X	NA	X	X			✓
	1235	-SS352	5		X	X	X	X	X			✓
	1320	-SS217	5		X	X	NA	X	X			✓
	1343	-SS219	5		X	X	NA	X	X			✓
	1406	-SS220	5		X	X	NA	X	X			✓
Total Number of Containers			60	Purchase Order / Statement of Work # CLF-042720a								
1) Released by: <u>A Vanderwort</u>			1) Rec'd by: <u>[Signature]</u>			2) Released by:			2) Rec'd by:			
Print name: <u>A Vanderwort</u>			Company: <u>ARI</u>			Print name:			Company:			
Signature: <u>[Signature]</u>			Date/Time: <u>6/15/20 1634</u>			Signature:			Date/Time:			
Company: <u>Windward</u>			Date/Time: <u>6/15/20 20 4634</u>			Company:			Date/Time:			

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3208

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: Amara Vandervort
 Sampled By: R.M. JH

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/16/20
 Shipper: Courier Airbill Number: NA
 Form filled out by: R. Matheson Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions (Jar tag number(s))
					PCBI SVOCs	TOC Solids	DP	metals/ mercury	Archival			
6/16/20	0812	LDW20-SS340	5	sediment	X	X	NA	X	X			
	0829	-SS353	5		X	X	X	X	X			
	0847	-SS345	5		X	X	NA	X	X			
	0922	-SS342	5		X	X	NA	X	X			
	0943	-SS351	5		X	X	X	X	X			
	1004	-SS348	5		X	X	NA	X	X			
	1027	-SS349	5		X	X	X	X	X			
	1050	-SS316	5		X	X	NA	X	X			
	1225	-SS160	5		X	X	NA	X	X			
	1243	-SS204	5		X	X	NA	X	X			
	1303	-SS210	5		X	X	X	X	X			
Total Number of Containers			55	Purchase Order / Statement of Work # <u>CLF-042720a</u>								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quinlisk</u>	<u>[Signature]</u>	Print name:	
Signature: <u>Brandi Quinlisk</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/16/2020 15:48</u>	Date/Time: <u>6/16/2020 15:48</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3212

Project/Client Name: Duwamish AOCY
 Project Number: 180067-02.02
 Contact Name: Amara Vandervort
 Sampled By: J.H. R.M.

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/17/20
 Shipper: Courier Airbill Number: NA
 Form filled out by: R. Mathonnet Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions (Jar tag number(s))
					PCB1	SVOCs	TOC1	Solids	DF	metals/mercury	Archive	
6/17/20	0842	LDW20-SS 324	5	Sediment	X	X	NA	X	X			
	0922	-SS 326	5	↓	X	X	NA	X	X			
	1013	-SS 365	5		X	X	NA	X	X			
	1034	-SS 368	5		X	X	NA	X	X			
	1052	-SS 372	5		X	X	NA	X	X			
	1135	-SS 426	5		X	X	NA	X	X			
	1157	-SS 421	5		X	X	NA	X	X			
	1323	-SS 327	5		X	X	X	X	X			
	1402	-SS 331	5		X	X	NA	X	X			
	1425	-SS 332	5		X	X	X	X	X			
Total Number of Containers			50		Purchase Order / Statement of Work # <u>CLF-042720a</u>							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quintisic</u>	<u>[Signature]</u>	Print name:	
Signature: <u>Brandi Quintisic</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/17/2020 16:02</u>	Date/Time: <u>6/17/2020 16:02</u>	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3214

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: Amara Vandervort
 Sampled By: RM JH

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/18/20
 Shipper: Courier Airbill Number: NA
 Form filled out by: R Mathonet Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions (Jar tag number(s))
					PCBI	SVOCs	TOC1 Solids	DF	metals/mercury	Archive		
6/18/20	0911	LDW20-SS251	5	Sediment	X	X	NA	X	X			
	0939	-SS264	5		X	X	NA	X	X			
	1036	-SS409	5		X	X	NA	X	X			
	1119	-SS310	5		X	X	NA	X	X			
	1225	-SS318	5		X	X	NA	X	X			
	1242	-SS322	5		X	X	NA	X	X			
	1304	-SS359	5		X	X	NA	X	X			
	1330	-SS377	5		X	X	NA	X	X			
	1407	-SS379	5		X	X	X	X	X			
	1447	-SS388	5		X	X	NA	X	X			
Total Number of Containers			<u>50</u>	Purchase Order / Statement of Work # <u>CLF-042720a</u>								

1) Released by: Print name: <u>A Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/18/20 1610</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/18/2020 1610</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Print name: Signature: Company: Date/Time:
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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3216

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: Amara Vandervort
 Sampled By: RM, JH

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/19/20
 Shipper: courier Airbill Number: N/A
 Form filled out by: R. MatLanet Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [Jar tag number(s)]
					PCBI SVOCs	TOC1 Solids	DF	metals/mercury	Archive			
6/19/20	0728	LDW20-SS224	5	sediment	X	X	NA	X	X			
	0754	-SS232	5		X	X	NA	X	X			
	0816	-SS240	5		X	X	NA	X	X			
	0838	-SS244	5		X	X	X	X	X			
	0851	-SS243	5		X	X	X	X	X			
	0942	-SS269	5		X	X	NA	X	X			
	1001	-SS261	5		X	X	NA	X	X			
	1020	-SS255	5		X	X	NA	X	X			
	1042	-SS250	5		X	X	NA	X	X			
	1110	-SS245	5		X	X	NA	X	X			
	1207	-SS222	5		X	X	NA	X	X			
	1221	SS223	5		X	X	NA	X	X			

Total Number of Containers: 60 Purchase Order / Statement of Work # CLF-042720a

1) Released by: Print name: <u>A Vandervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/19/20 1632</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/19/2020 1631</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: 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:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3297

Project/Client Name: Duwamish AOCY
 Project Number: 180067-02.02
 Contact Name: Amara Vandervort
 Sampled By: JH, RM

Ship to: ARI
 Attn: Amanda Volgerden Shipping Date: 6/19
 Shipper: courier Airbill Number: NA
 Form filled out by: R. MatLonnoff Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions (Jar tag number(s))
					PCB1	SVOCs	TOC1 Solids	DF	metals/mercury	archive		
6/19/20	1246	LDW20-SS226	5	sediment	X	X	NA	X	X			
	1301	-SS230	5		X	X	NA	X	X			
	1320	-SS235	5		X	X	NA	X	X			
	1336	-SS238	5		X	X	NA	X	X			
Total Number of Containers			20	Purchase Order / Statement of Work # <u>CLF-6427 Ba</u>								

1) Released by: <u>A. Vandervort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>A. Vandervort</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>		Signature:	
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/19/20 1632</u>	Date/Time: <u>6/19/20 201632</u>	Date/Time:	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: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3299

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: Amara Vanderroot
 Sampled By: JH, KM

Ship to: ARI
 Attn: Amara Volgaardson Shipping Date: 6/23/20
 Shipper: Council Airbill Number: NA
 Form filled out by: K. McPeak Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions [Jar tag number(s)]
					PCBS, SDDs	TOC, Solids	DF	metals, Hg	archive	
06.23.20	0859	L0W20-55306	5	Sediment ↓	x	x	NA	x	x	
	0916	-55308	5		x	x	NA	x	x	
	1013	-55401	5		x	x	NA	x	x	
	1039	-55406	5		x	x	x	x	x	
	1020	-55415	5		x	x	NA	x	x	
Handwritten note: 6/23/20										
Total Number of Containers			<u>25</u>	Purchase Order / Statement of Work # <u>CLF-0427204</u>						

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quinlisk</u>		Print name:	
Signature: <u>Brandi Quinlisk</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/23/2020 15:43</u>	Date/Time: <u>6/23/2020 1543</u>	Date/Time:	Date/Time:

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

12 3303

Project/Client Name: Duwamish AOC4
 Project Number: 180067-01.02
 Contact Name: Amana Vandervort
 Sampled By: JH, KM

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/24/20
 Shipper: Conner Airbill Number: N/A
 Form filled out by: K. McPeak Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions [Jar tag number(s)]
					PCBs, SVOCs	TOC Solids	DF	Metals, Hg	anion	
06.24.20	0754	LDW20-SS301	5	sediment	X	X	X	X	X	
	0818	-SS302	5		X	X	NA	X	X	
	0842	-SS309	5		X	X	NA	X	X	
	0913	-SS323	5		X	X	NA	X	X	
	1111	-SS404	5		X	X	NA	X	X	
	1136	-SS407	5		X	X	NA	X	X	
<i>Continued 6/24/20</i>										

Total Number of Containers 30 Purchase Order / Statement of Work # CLF-042720a

1) Released by: <u>Brandi Quinlisk</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quinlisk</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>		Signature:	
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/24/2020 16:23</u>	Date/Time: <u>6/24/2020 1623</u>	Date/Time:	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: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3305

Project/Client Name: Duwanish MCH
 Project Number: 180067-02.02
 Contact Name: Amyra Vandervoort
 Sampled By: JH, KM

Ship to: ARI
 Attn: Amanda Volgardsen
 Shipper: Courier
 Form filled out by: K. An Peck
 Shipping Date: 6/25/20
 Airbill Number: NA
 Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions [Jar tag number(s)]
					PCBs, SVOCs	TOC, Solids	DF	metals, Hg	archive	
06.25.20	0710	LOW20-SS320	5	Sediment	X	X	X	X	X	
	0736	-SS304	5		X	X	X	X	X	
	0753	-SS319	5		X	X	NA	X	X	
	0817	-SS393	5		X	X	NA	X	X	
	0842	-SS383	5		X	X	NA	X	X	
	0907	-SS390	5		X	X	NA	X	X	
	0948	-SS389	5		X	X	X	X	X	
	1055	-SS413	5		X	X	NA	X	X	
	1111	-SS416	5		X	X	NA	X	X	
	1132	-SS418	5		X	X	NA	X	X	
	1200	-SS419	5		X	X	X	X	X	
	1244	-SS392	5		X	X	NA	X	X	
Total Number of Containers			60	Purchase Order / Statement of Work # <u>CLF-042720A</u>						

1) Released by: <u>A Vandervoort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>A Vandervoort</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>		Signature:	
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/25/20 1650</u>	Date/Time: <u>6/25/20-20 1630</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3926

Project/Client Name: DJULIANISH ARRY
 Project Number: 180067-02-02
 Contact Name: Amica Vandervort
 Sampled By: JL, KM

Ship to: ARI
 Attn: Amanda Volgoudsen Shipping Date: 6/26/20
 Shipper: Courier Airbill Number: NA
 Form filled out by: K. McPeak Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					RB, SVOLs	TOTAL Solids	DF	metals, Hg	archive		
06.26.20	0846	LOW20-SS424	5	sediment	X	X	NA	X	X		
	0914	-SS268	5	↓	X	X	NA	X	X		
	0934	-SS266	5		X	X	X	X	X		
	0951	-SS258	5		X	X	X	X	X		
	1013	-SS257	5		X	X	X	X	X		
	1034	-SS228	5		X	X	X	X	X		
	1057	-SS236	5		X	X	NA	X	X		
	1115	-SS217	5		X	X	X	X	X		
Total Number of Containers			<u>40</u>		Purchase Order / Statement of Work # <u>CLF-0427209</u>						

1) Released by: <u>Kate McPeak</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>Kate McPeak</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>	Date/Time: <u>6/26/20 1556</u>	Signature:	Date/Time:
Company: <u>Whatwood</u>		Company:	

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

10 3909

Project/Client Name: Duwamish AUC4
 Project Number: 180467 02 02
 Contact Name: A. Anderson
 Sampled By: Windward

Ship to: ARI
 Attn: Amada Jansa
 Shipping Date: NA
 Shipper: Courier
 Airbill Number: NA
 Form filled out by: AV
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions (jar tag number(s))	
					PCB	PCB1	SUCC/HCB	TOC1	SWDS	DIF	Metals		Arsenic
06.30.20	0729	10W120-SS423	6.5	Sediment	X	X	X	X	X	X	X	X	
Total Number of Containers					5	Purchase Order / Statement of Work # <u>CLF-0427200</u>							

1) Released by: TRAI DO 2) Released by:
 Print name: TRAI DO Print name:
 Signature: [Signature] Signature:
 Company: WINDWARD ENV Company:
 Date/Time: 06.30.20 / 1615 Date/Time:
 Date/Time: 06.30.20 1615 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:

of

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3888

Project/Client Name: Duwamish AOC4 Ship to: Harold L Benny Assoc.
 Project Number: 180627-02.02 Attn: Harold Benny Shipping Date: 6/11/20
 Contact Name: J Vandervoort Shipper: Coville Airbill Number:
 Sampled By: J Vandervoort Form filled out by: JV Turnaround requested: SLD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)								Comments / Instructions (Jar tag number(s))		
					GENSCAN	TOX	PCB	PAH	DDT	CHLOR	OTHER	OTHER		OTHER	OTHER
6/11/20	1027	LOW20-SC101	1	Sediment	X	X	X	X	X						
	1110	LOW20-SC102	1		X	X	X	X	X						
	1246	LOW20-IT105	1		X	X	X	X	X						
	1406	LOW20-SC109	1		X	X	X	X	X						
6/11/20	1441	LOW20-SC113	1	Sediment	X	X	X	X	X						
					Purchase Order / Statement of Work # <u>CLF-0427206</u>										
1) Released by: _____					2) Released by: _____					2) Rec'd by: _____					
Print name: _____					Print name: _____					Print name: _____					
Signature: _____					Signature: _____					Signature: _____					
Company: _____					Company: _____					Company: _____					
Date/Time: _____					Date/Time: _____					Date/Time: _____					

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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* Distribution: White copies accompany shipment; yellow retained by signor.

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

3893

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: Amara Vandervoort
 Sampled By: Windward

Ship to: Harold L Berry + Assoc
 Attn: Harold Berry
 Shipping Date: 6/12/20
 Shipper: Covier
 Airbill Number: NA
 Form filled out by: AV
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)	Comments / Instructions [lar tag number(s)]
6/12/20	0746	LDW20-SC1106	1	Sediment	X	
	0905	LDW20-SC1102	1		X	
	0832	LDW20-SC1101	1		X	
	0919	LDW20-SC1117	1		X	
	0942	LDW20-SC121	2		X	
	1047	LDW20-SC123	1		X	
	1047	LDW20-SC123ED	1		X	
	1059	LDW20-SC125	1		X	
	1132	LDW20-IT105	1		X	
	1351	LDW20-SC130	1		X	
6/12/20	1328	LDW20-IT127	1	Sediment	X	
		Total Number of Containers	12			

1) Released by: [Signature] Date/Time: 6/12/20 1626
 Print name: Amara Vandervoort
 Signature: [Signature]
 Company: Windward
 Date/Time: 6/12/20 1626

2) Released by: _____ Date/Time: _____
 Print name: _____
 Signature: _____
 Company: _____
 Date/Time: _____

Purchase Order / Statement of Work # CLF-042720b

* Distribution: White copies accompany shipment; yellow retained by consignee.

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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:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3895

Project/Client Name: DuwamishAOC4 Ship to: Harold L Benny Assoc.
 Project Number: 180063-02.02 Atn: Harold Benny
 Contact Name: A Vendervert Shipper: COVER
 Sampled By: Windward Form filled out by: AV Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (lar tag number(s))
					Gransre	PSEP			
6/13/20	0736	LOW20-TT133	1	Solvent	X				
	0751	LOW20-SC140	1		X				
	0818	LOW20-SC142	1		X				
	0842	LOW20-SC150	1		X				
	0929	LOW20-SC1510	1		X				
	0944	LOW20-SC162	1		X				
	1124	LOW20-SC135	1		X				
	1142	LOW20-SC202	1		X				
	1214	LOW20-SC203	1		X				
	1242	LOW20-SC211	1		X				
	1242	LOW20-SC211D	1		X				
	1215	LOW20-SC144	1	Solvent	X				
Total Number of Containers			12						

1) Released by: _____ 1) Rec'd by: _____ 2) Released by: _____ 2) Rec'd by: _____
 Print name: _____
 Signature: _____
 Company: _____
 Date/Time: _____

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

* Distribution: White copies accompany shipment; yellow retained by consignor.



CHAIN-OF-CUSTODY/TEST REQUEST FORM

119 3896

Project/Client Name: Duvenish Assoc Ship to: Harold L Benny Assoc.
 Project Number: 180067-0202 Atn: Harold Benny
 Contact Name: A Vandevort Shipper: Couler
 Sampled By: W Vandevort Form filled out by: AV Airbill Number: 613120
 Turnaround requested: Sid

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions (lar tag number(s))
					Grain Size PSEP					
		LOWITT:AV								
6/13/20	1331	LOW20-TT139	1	Sediment	X					
	1346	LOW20-TT151	1	↓	X					
6/13/20	1402	LOW20-TT146	1	Sediment	X					
Total Number of Containers			3							
Purchase Order / Statement of Work # <u>CLF-0427206</u>										
1) Released by: _____			1) Rec'd by: _____			2) Released by: _____			2) Rec'd by: _____	
Print name: <u>A Vandevort</u>			Print name: _____			Print name: _____			Print name: _____	
Signature: <u>[Signature]</u>			Signature: _____			Signature: _____			Signature: _____	
Company: <u>Vandevort</u>			Company: <u>AV</u>			Company: _____			Company: _____	
Date/Time: <u>6/13/20 1626</u>			Date/Time: <u>6/13/20 1626</u>			Date/Time: _____			Date/Time: _____	

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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environmental LLC

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

10 3898

Project/Client Name: Duwamish Aquif
 Project Number: 180067-02.02
 Contact Name: A. Vandervort
 Sampled By: L. Vandervort

Ship to: Harold L. Benny Assoc.
 Attn: Harold Benny
 Shipper: Bouvier
 Ship Date: 6/14/2020
 Form filled out by: BA
 Airbill Number: ---
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)			Comments / Instructions (lar tag number(s))
6/4/2020	8:16	LDW20-SC165	1	Sediment	X			
6/4/2020	8:44	LDW20-SC161	1	Sediment	X			
	10:08	LDW20-IT236	1	Sediment	X			
	9:05	LDW20-SC167	1	Sediment	X			
	10:22	LDW20-SC214	1		X			
	09:34	LDW20-SC169	1		X			
	11:05	LDW20-IT232	1		X			
	11:30	LDW20-SC319	2		X			
	11:38	LDW20-SC251	1		X			
6/4/20	12:14	LDW20-SC264	1		X			
Total Number of Containers								
1) Released by: <u>Brandi Quialsk</u>					Purchase Order / Statement of Work # <u>OCF-0427205</u>			
Print name: <u>Brandi Quialsk</u>					2) Rec'd by: <u>[Signature]</u>			
Signature: <u>[Signature]</u>					Company: <u>[Signature]</u>			
Company: <u>L. Vandervort</u>					Date/Time: <u>6/14/2020 16:30</u>			

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3903

Project/Client Name: Duromin Assoc Ship to: Harold L Bemy Assoc
 Project Number: 180067-0202 Attn: Harold Bemy
 Contact Name: A Venderhoff Shipper: Carrier
 Sampled By: W. Woodward Form filled out by: AV Airbill Number: N/A
 Turnaround requested: 5+D

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)		Comments / Instructions [lar tag number(s)]
					Granite	PSEP	
6/4/20	1354	LDW20-SC159	1	Sediment	X		
	1404	LDW20-SC154	1	Sediment	X		
	1401	LDW20-SC158	1	Sediment	X		
6/4/20	1309	LDW20-T+243	1	Sediment	X		
Total Number of Containers					4		
Purchase Order / Statement of Work #					CLF-0427205		
1) Released by: <u>W. Woodward</u>		1) Rec'd by: <u>[Signature]</u>		2) Released by: <u>[Signature]</u>		2) Rec'd by: <u>[Signature]</u>	
Print name: <u>W. Woodward</u>		Company: <u>Windward LLC</u>		Print name: <u>[Signature]</u>		Company: <u>[Signature]</u>	
Signature: <u>[Signature]</u>		Company: <u>Windward LLC</u>		Signature: <u>[Signature]</u>		Company: <u>[Signature]</u>	
Date/Time: <u>6/4/20 10:36</u>		Date/Time: <u>6/11/20 10:36</u>		Date/Time: <u>[Signature]</u>		Date/Time: <u>[Signature]</u>	

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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:



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

3905

Project/Client Name: Ducommun Acc4 Ship to: Harold L Benny Assoc.
 Project Number: 180067-02.02 Atn: Harold Benny Shipping Date: 6/5/2020
 Contact Name: A. Vanderward Shipper: courier Airbill Number: ---
 Sampled By: W Vanderward Form filled out by: AV Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)			Comments / Instructions (for tag number(s))
					Grain Size	PSEP		
6/5/20	0758	LDW20-5C169	1	Sediment	X			
	0842	LDW20-IT224	1		X			
	0854	LDW20-IT215	1		X			
	0912	LDW20-IT240	1		X			
	1003	LDW20-IT247	1		X			
	1032	LDW20-IT310	1		X			
	1045	LDW20-5C302	1		X			
	1054	LDW20-5C336	1		X			
	1054	LDW20-5C336	1		X			
	1122	LDW20-IT365	1		X			
	1122	LDW20+IT365D	1		X			
	1306	LDW20-IT361	1		X			
Total Number of Containers								
1) Released by: <u>[Signature]</u>					2) Rec'd by: <u>[Signature]</u>			
Print name: <u>A. Vanderward</u>					Print name: <u>[Signature]</u>			
Signature: <u>[Signature]</u>					Signature: <u>[Signature]</u>			
Company: <u>W Vanderward</u>					Company: <u>ARI</u>			
Date/Time: <u>6/5/20 1549</u>					Date/Time: <u>6/5/2020 1549</u>			

Purchase Order / Statement of Work # CLF-0427205



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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:

* Distribution: White copies accompany shipment; yellow retained by consignee.

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No. 3844

Project/Client Name: Duromish Assoc Ship to: Harold & Benny Assoc
 Project Number: 1800107-02.02 Attn: Harold Benny Shipping Date: 6/18/20
 Contact Name: A. Vanderwolf Shipper: Courier Airbill Number:
 Sampled By: Windward Form filled out by: AV Turnaround requested: SLD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (lar tag number(s))
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6/18/20	0841	LDW80-SC148C	1	Sediment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	10310	LDW20-SC155B	1	Sediment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	1237	LDW20-SC166C	1	Sediment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
6/18/20	1438	LDW20-SC208B	1	Sediment	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Total Number of Containers					Purchase Order / Statement of Work #				
					CLF-0427202				

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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:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3906

Project/Client Name: Duwamish Assoc
 Project Number: 180067-02.02
 Contact Name: A Vandervert
 Sampled By: Vandervert

Ship to: Harold & Benny D Assoc
 Attn: Harold Benny D
 Shipper: carrier
 Shipping Date: 6/19/20
 Form filled out by: AV
 Airbill Number: N/A
 Turnaround requested: STW

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)			Comments / Instructions (lar tag number(s))	
					61520	320	320		
6/19/20	0803	LDW20-IT3516	1	Sediment	X	X	X	AV	
0804	1030	LDW20-IT369	1		X	X	X		
1055	1103	LDW20-IT372	1		X	X	X		
1109	1216	LDW20-IT377	1		X	X	X		
1216	1216	LDW20-IT399	1	Sediment	X	X	X		
6/19/20	1216	LDW20-IT399FD	1		X	X	X		
Total Number of Containers					80				
1) Released by: <u>A Vandervert</u>					2) Rec'd by: <u>[Signature]</u>				
Print name: <u>A Vandervert</u>					Print name: <u>[Signature]</u>				
Signature: <u>[Signature]</u>					Signature: <u>[Signature]</u>				
Company: <u>Vandervert</u>					Company: <u>ARI</u>				
Date/Time: <u>6/19/20 1600</u>					Date/Time: <u>6/19/20 1600</u>				
Purchase Order / Statement of Work # <u>CLF-0427205</u>									

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Condition upon receipt:	Time of receipt:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: Dunhamish Assoc
 Project Number: 180067-02.02
 Contact Name: A. Vanderhoff
 Sampled By: Vanderhoff

Ship to: Harold L Benny Assoc
 Attn: Harold Benny
 Shipper: Courier
 Form filled out by: A Vanderhoff
 Airbill Number: 616120
 Turnaround requested: 51d

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)		Comments / Instructions [lar tag number(s)]
					Glansree	PSEP	
08/28	0844	LDW20-IT 3104	1	Sediment	X		
08/28	0840	LDW20-IT 224	1		X		
08/28	0840	LDW20-IT 334	1		X		
08/28	0908	LDW20-IT 359	1		X		
08/28	0923	LDW20-IT 374	1		X		
08/28	1051	LDW20-SC 2388	1		X		
08/28	1149	LDW20-IT 228	1		X		
08/28	1208	LDW20-SC 2356	1		X		
08/28	1235	LDW20-SC 2508	1		X		
08/28	1334	LDW20-IT 244	1	Sediment	X		
		Total Number of Containers					
1) Released by: <u>[Signature]</u>		1) Rec'd by: <u>[Signature]</u>		Purchase Order / Statement of Work # <u>CF-04272010</u>		2) Rec'd by: <u>[Signature]</u>	
Print name: <u>A Vanderhoff</u>		Print name: <u>[Signature]</u>		Company: <u>ARB</u>		Company: <u>[Signature]</u>	
Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>		Company: <u>[Signature]</u>		Company: <u>[Signature]</u>	
Company: <u>Vanderhoff</u>		Company: <u>ARB</u>		Date/Time: <u>616/2020 1631</u>		Date/Time: <u>[Signature]</u>	
Date/Time: <u>616/20 1631</u>		Date/Time: <u>616/2020 1631</u>		Date/Time: <u>[Signature]</u>		Date/Time: <u>[Signature]</u>	

* Distribution: Write copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

CHAIN SITE

3948

Project/Client Name: Durhamish Accl Ship to: Harold Bergs 4500
 Project Number: 180067-07.02 Atn: Harold Bergs Shipping Date: 6/11/2020
 Contact Name: Amera Vandervort Shipper: Quvier Airbill Number: AJA
 Sampled By: Windward Form filled out by: Brandi Quivisk Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (lar tag number(s))
					GRAIN SIZE	PSEP			
6/11/2020	07:21	LDU070-IT248	1	Sediment	X				
	07:52	-IT253	1		X				
	07:52	-IT253FD	1		X				
	8:10	-IT232	1		X				
	9:11	-SC269B	1		X				
	9:30	-SC261B	1		X				
	10:13	-SC255B	1		X				
	11:51	-SC245B	1		X				
	12:38	-IT268	1		X				
Total Number of Containers			9						
Purchase Order / Statement of Work #				ALF-0427206					
1) Released by: <u>Brandi Quivisk</u>					2) Rec'd by: _____				
Print name: <u>Brandi Quivisk</u>					Print name: _____				
Signature: <u>[Signature]</u>					Signature: _____				
Company: <u>Windward</u>					Company: _____				
Date/Time: <u>6/11/2020 16:01</u>					Date/Time: _____				

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

3.86

Project/Client Name: ADAMSISN A004 Ship to: Hand L Benu + Assoc.
 Project Number: 1800107-02.02 Atn: Hand L Benu Shipping Date: 01/21/20
 Contact Name: A Vanderweert Shipper: Carrier Airbill Number: NA
 Sampled By: W Vanderweert Form filled out by: AV Turnaround requested: 5-1d.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (lar tag number(s))
01/21/20	0722	LDW20-IT257	1	Sediment	X				
	0732	LDW20-IT258	1		X				
	0741	LDW20-IT260	1		X				
	0807	LDW20-SC230B	1		X				
	0829	LDW20-SC235A	1		X				
	0854	LDW20-SC222B	1		X				
	0923	LDW20-SC220A	1		X				
	1122	LDW20-SC217A	1		X				
	0946	LDW20-SC219C	1		X				
01/21/20	1306	LDW20-SC212A	1	Sediment	X				
Total Number of Containers									
1) Released by: <u>A Vanderweert</u>					2) Rec'd by: <u>[Signature]</u>				
Print name: <u>A Vanderweert</u>					Print name: <u>[Signature]</u>				
Signature: <u>[Signature]</u>					Signature: <u>[Signature]</u>				
Company: <u>Vanderweert</u>					Company: <u>KRT</u>				
Date/Time: <u>01/21/20 16:28</u>					Date/Time: <u>01/21/2020 16:28</u>				
Purchase Order / Statement of Work # <u>UC-01232016</u>									

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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:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

19 3911

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: AVandewort
 Sampled By: Wandward
 Ship to: Harold L Bony Assoc.
 Attn: Harold Bony
 Shipping Date: 6/15/10
 Shipper: Coast
 Airbill Number: NA
 Form filled out by: AV
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)										Comments / Instructions (Jar tag number(s))		
					1	2	3	4	5	6	7	8	9	10			
6/15/10	0718	LDW20-SC340	1	sediment	X												
	0724	SC342	1		X												
	0735	SC340	1		X												
	0856	SC345	1		X												
	0910	SC349	1		X												
	0927	SC348	1		X												
	0934	SC353	1		X												
	0940	SC351	1		X												
	0910	SC349FD	1		X												
	1129	SC160C	1		X												
	1239	SC210B	1		X												
6/15/10	1327	LDW20-SC204B	1	sediment	X												
		Total Number of Containers	12														

1) Released by: AVandewort
 Print name: AVandewort
 Signature: [Signature]
 Company: Windward
 Date/Time: 6/15/10 11:34
 2) Rec'd by: [Signature]
 Print name: [Signature]
 Signature: [Signature]
 Company: [Signature]
 Date/Time: 6/15/10 11:34
 Purchase Order / Statement of Work # CLF-0427206

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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718V1 CMA-SITE

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3916

1 of 2

Project/Client Name: Duwamish Area Ship to: Harold L. Benny & Associates

Project Number: 180067-62.02 Attn: Harold Benny Shipping Date: 6/16/2020

Contact Name: Anara Vanderwolf Shipper: Clavier Airbill Number: NA

Sampled By: Windward Form filled out by: B. Swalick Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)										Comments / Instructions [Jar tag number(s)]		
					Gravimetric	Residue	Other	Other	Other	Other	Other	Other	Other	Other		Other	
6/16/2020	7:20	LDW20-SC324	1	Sediment	X												
	8:02	LDW20-SC327	1		X												
	7:50	LDW20-SC326	1		X												
	8:32	LDW20-IT332	2		X												
	9:16	LDW20-SC368	1		X												
	10:29	LDW20-IT421	1		X												
	10:36	LDW20-IT409	1		X												
	9:51	LDW20-SC361	1		X												
	11:29	LDW20-IT330	1		X												
	11:34	LDW20-IT331	1		X												
	12:01	LDW20-IT368	1		X												
	12:58	LDW20-IT390	1		X												
		Total Number of Containers	13														

Purchase Order / Statement of Work # CLF-0427206

1) Released by: [Signature] Date/Time: 6/16/2020 15:48

Print name: Harold Benny Company: Windward

Signature: [Signature] Company: Windward

2) Rec'd by: [Signature] Date/Time: 6/16/2020 15:48

Print name: [Signature] Company: Windward

Signature: [Signature] Company: Windward

Date/Time: 6/16/2020 15:48

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: Duwanish Acry Ship to: AKJ
 Project Number: 18067-02.02 Attn: Amanda Volgarden Shipping Date: 6/16/2020
 Contact Name: Amaru Vandward Shipper: Banner Airbill Number: NA
 Sampled By: windward Form filled out by: B. Quinlisk Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions (jar tag number(s))									
6/16/20	12:08	LDW20-IT389	1	sediment																	
Total Number of Containers																					

1) Released by: Brenda Quinlisk 2) Rec'd by: _____
 Print name: _____
 Signature: Brenda Quinlisk Company: ART
 Company: windward Date/Time: 6/16/2020 15:48
 Date/Time: 6/16/2020 15:48 Date/Time: _____
 Purchase Order / Statement of Work # ALF-0427200

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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:

Tier 1 GRAN SIZE

CHAIN-OF-CUSTODY/TEST REQUEST FORM

10 3920

Project/Client Name: Duwamish AOC4 Ship to: Harold L. Benny Associates
 Project Number: 180067-02.02 Attn: Harold Benny Shipping Date: 6/17/2020
 Contact Name: Amara Vandervort Shipper: Nowier Airbill Number: N/A
 Sampled By: windward Form filled out by: B. Quinisk Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions (jar tag number(s))
					GRAIN SIZE	ASCP				
6/17/2020	7:32	LDW20-17416	1	Sediment	X					
	7:49	LDW20-17418	1	Sediment	X					
	7:58	LDW20-17423	1	Sediment	X					
	8:05	LDW20-17424	1	Sediment	X					
	8:15	LDW20-17426	1	Sediment	X					
	12:36	LDW20-17419	1	Sediment	X					
					Purchase Order / Statement of Work # <u>OLF-0427206</u>					

1) Released by:	2) Released by:
Print name: <u>Brandi Quinisk</u>	Print name:
Signature: <u>Brandi Quinisk</u>	Signature:
Company: <u>windward</u>	Company:
Date/Time: <u>6/17/2020 16:02</u>	Date/Time:

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

* Distribution: White copies accompany shipment; yellow retained by consignee.

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

110 3912

Project/Client Name: Duwamish Area
 Project Number: 19006-3-02-02
 Contact Name: A Vanderhoff
 Sampled By: W Vanderhoff
 Ship to: Harold L Bondy + Assoc
 Attn: Harold Bondy
 Shipper: Carrier
 Shipping Date: 6/19/20
 Form filled out by: AV
 Airbill Number: N/A
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)			Comments / Instructions (Jar tag number(s))	
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6/19/20	0317	LDW20-IT219	1	Sediment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Grainsize PSEP	
Total Number of Containers									
1) Released by: <u>A Vanderhoff</u>					1) Rec'd by: <u>[Signature]</u>			Purchase Order / Statement of Work # <u>CLF-0427206</u>	
Print name: <u>A Vanderhoff</u>					Company: <u>ART</u>			2) Released by: _____	
Signature: <u>[Signature]</u>					Date/Time: <u>6/19/20 1632</u>			Print name: _____	
Company: <u>Windward Environmental LLC</u>					Date/Time: <u>6/19/20 1632</u>			Signature: _____	
Date/Time: <u>6/19/20 1632</u>					Date/Time: _____			Company: _____	

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3867

1 of 2
 Project/Client Name: Durhamish Assoc.
 Project Number: 1800107.0202
 Contact Name: A. Vandenort
 Sampled By: Vandenort
 Ship to: Harold J. Bandy Assoc.
 Attn: Harold Bandy
 Shipper: Quiver
 Shipping Date: 01/22/20
 Form filled out by: A. Vandenort
 Airbill Number:
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)			Comments / Instructions (Jar tag number(s))	
					Grain	Sizel	PSEP		
01/22/20	0713	L00020-TT301	1	Sediment	X				
	0720	TT302	1		X				
	0729	TT310	1		X				
	0735	TT309	1		X				
	0740	TT312	1		X				
	0745	TT316	1		X				
	0752	TT320	2		X				
	0757	TT323	1		X				
	0811	TT308	1		X				
	0835	TT411	1		X				
	0927	TT401	1		X				
01/22/20	0946	L00020-TT400	1	Sediment	X				
Total Number of Containers			13						
1) Released by: <u>A. Vandenort</u>				2) Rec'd by: <u> </u>				Purchase Order / Statement of Work # <u>CLF-0127200</u>	
Print name: <u>A. Vandenort</u>				Print name: <u> </u>				Company: <u> </u>	
Signature: <u>A. Vandenort</u>				Signature: <u> </u>				Company: <u> </u>	
Company: <u>Durhamish Assoc.</u>				Company: <u> </u>				Date/Time: <u> </u>	
Date/Time: <u>01/22/20 1547</u>				Date/Time: <u>01/22/20 1547</u>				Date/Time: <u> </u>	

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

Chain Size - 1/2" T

NO 3872

Project/Client Name: Duhamish Acety Ship to: Harold L. Berry Associates
 Project Number: 180067-02.02 Attn: Harold Berry Shipping Date: 6/23/2020
 Contact Name: Amaria Vanderort Shipper: Avier Airbill Number: N/A
 Sampled By: Vanderort Form filled out by: B. Quinlisk Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)		Comments / Instructions (Jar tag number(s))
					Grain Size	PSEP	
6/23/2020	6:15	LDW20-1T383	1	Sediment	X		
	8:43	-1T313	1		X		
	9:14	-1T304	1		X		
	10:16	-1T415	1		X		
Total Number of Containers							
Purchase Order / Statement of Work # <u>NLE-042720b</u>							

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

1) Released by: <u>Brandi Quinlisk</u> Print name: <u>Brandi Quinlisk</u> Signature: <u>[Signature]</u> Company: <u>Vanderort</u> Date/Time: <u>6/23/2020 15:35</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ATI</u> Date/Time: <u>6/23/2020 16:35</u>
2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Company: _____ Date/Time: _____

Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

3313

Project/Client Name: Dunsmuir Aest Ship to: Harold C. Barney + Assoc.
 Project Number: 180067-02.02 Atn: Harold Barney Shipping Date: _____
 Contact Name: Amya Vandeventer Shipper: courier Airbill Number: NA
 Sampled By: EM, TH Form filled out by: K. Mepole Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [lar tag number(s)]								
					1) Released by:	2) Rec'd by:	1) Released by:	2) Rec'd by:	1) Released by:	2) Rec'd by:									
6/5/20	0644	LDW20-SS159	1	solid	X														
	0723	-SS167	1		X														
	0742	-SS158	1		X														
	0810	-SS159	1		X														
	0900	-SS168	1		X														
	1038	-SS101	1		X														
	1059	-SS102	1		X														
	1059	-SS102-ED	1		X														
	1132	-SS109	1		X														
	1132	-SS109-ED	1		X														
	1242	-SS113	1		X														
	1329	-SS117	1		X														
Total Number of Containers			12		Purchase Order / Statement of Work # <u>CLF-0427206</u>														
1) Released by: <u>Amya Vandeventer</u>				1) Rec'd by: <u>[Signature]</u>				2) Released by: _____				2) Rec'd by: _____							
Signature: <u>[Signature]</u>				Signature: _____				Signature: _____				Signature: _____							
Company: <u>Windward</u>				Company: <u>ATI</u>				Company: _____				Company: _____							
Date/Time: <u>6/5/20 1549</u>				Date/Time: <u>6/5/20-20 1549</u>				Date/Time: _____				Date/Time: _____							

* Distribution: white copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

2 of 2

112 3316

Project/Client Name: Duvenish ACU Ship to: Harold L. Boony + Assoc.
 Project Number: 180067-01.02 Atn: Harold Boony Shipping Date: _____
 Contact Name: Armina Vandervort Shipper: Conner Airbill Number: NA
 Sampled By: KM, TH Form filled out by: L. Mierpach Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Tests(s) Requested (check test(s) required)	Comments / Instructions (Jar tag number(s))
6/5/20	1402	180120-55169	1	Sediment	X	Granitic PSEP
<i>Tested</i>						
<i>6/5/20</i>						
Total Number of Containers						
1) Released by: <u>Armina Vandervort</u>			1) Rec'd by: <u>[Signature]</u>		2) Rec'd by: _____	
Print name: <u>Armina Vandervort</u>			Company: <u>ARI</u>		Company: _____	
Signature: <u>[Signature]</u>			Date/Time: <u>6/5/20 1549</u>		Date/Time: _____	
Company: <u>Windward</u>			Purchase Order / Statement of Work # <u>CLF-0427206</u>		Date/Time: _____	

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

110 3331

Project/Client Name: Duwanish Alley Ship to: Harold Boony + Assoc.
 Project Number: 180067-07.02 Atn: Harold Boony Shipping Date: 6/10/20
 Contact Name: Anna Vanderhoff Shipper: cooler Airbill Number: NA
 Sampled By: KM KM Form filled out by: K. Miller Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions (Jar tag number(s))	
					610520	PSEP					
6/10/20	0746	LDU20-SS356	2	Sediment	X						
	0810	-SS364	2		X						
	0909	-SS338	1		X						
	0909	-SS338-FD	1		X						
	0943	-SS336	2		X						
	1137	-SS106	1		X						
	1205	-SS128 ^{PM}	2		X						
	1226	-SS123	1		X						
	1226	-SS123-FD	1		X						
	1252	-SS125	1		X						
	1328	-SS130	1		X						
	1328	-SS130-FD	1		X						
Total Number of Containers			16		Purchase Order / Statement of Work # <u>CLF-0423206</u>						
1) Released by: _____				2) Rec'd by: _____				2) Rec'd by: _____			
Print name: <u>A Vanderhoff</u>				Print name: _____				Print name: _____			
Signature: <u>[Signature]</u>				Signature: _____				Signature: _____			
Company: <u>Vanderhoff</u>				Company: <u>ARI</u>				Company: _____			
Date/Time: <u>6/10/20 1631</u>				Date/Time: <u>6/10/2020 1631</u>				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: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3333

Project/Client Name: DUNSMUIR 2014 Ship to: Arnold & Bony & Assoc.
 Project Number: 180067-02.02 Attn: Harold Bony Shipping Date: _____
 Contact Name: Adam Vorkhmet Shipper: carrier Artbill Number: N/A
 Sampled By: RM, RM Form filled out by: C. Mitchell + RM Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)		Comments / Instructions [Jar tag number(s)]
					Grain size PSEP		
6/11/20	0841	LDW20-SS169	1	Sediment	X		
	0916	-SS113	1		X		
	1030	-SS146	1		X		
	1053	-SS139	2		X		
	1120	-SS127	1		X		
	1120	-SS127-FD	1		X		
	1142	-SS133	1		X		
	1250	-SS140	2		X		
	1316	-SS142	2		X		
	1336	-SS144	1		X		
	1358	-SS148	1		X		
	1358	-SS148	1		X		
Total Number of Containers			14				
1) Released by: <u>Brandi Sivilic</u>				Purchase Order / Statement of Work # <u>CLF-0423206</u>			
Print name: <u>Brandi Sivilic</u>				2) Rec'd by: _____			
Signature: <u>[Signature]</u>				Print name: _____			
Company: <u>Windward Environmental LLC</u>				Signature: _____			
Date/Time: <u>6/11/2020 16:02</u>				Company: <u>ART</u>			
				Date/Time: <u>6/11/2020 1550</u>			

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3337

Project/Client Name: DUNBAR'S ACQU Ship to: Harold L. Bray + Assoc.
 Project Number: 180067-01.02 Attn: Harold Bray Shipping Date: _____
 Contact Name: Austin Vandercort Shipper: Cover Airbill Number: N/A
 Sampled By: R.M. KM Form filled out by: K. Pfeiffer Turnaround requested: 57d.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)		Comments / Instructions [lar tag number(s)]
					Coin Size	PSCP	
06/12/20	0854	LOW20-SS253	1	Sediment	X		
	0841	-SS248	1		X		
	0922	-SS272	1		X		
	1102	-SS151	1		X		
	1102	-SS151-FD	1		X		
	1128	-SS150	1		X		
	1227	-SS155	1		X		
	1245	-SS156	1		X		
	1301	-SS162	1		X		
	1325	1325 LM -SS166	1		X		
Total Number of Containers			10				
Purchase Order / Statement of Work #				CLP-092726			
1) Released by: _____		1) Rec'd by: _____		2) Released by: _____		2) Rec'd by: _____	
Print name: _____		Print name: _____		Print name: _____		Print name: _____	
Signature: _____		Signature: _____		Signature: _____		Signature: _____	
Company: _____		Company: <u>ART</u>		Company: _____		Company: _____	
Date/Time: _____		Date/Time: <u>6/12/2020 16:28</u>		Date/Time: _____		Date/Time: _____	

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

19 3340

Project/Client Name: Duwamish Area Ship to: Harold L. Beany + Assoc. Shipping Date: 6/15/20

Project Number: 180067-02.02 Attn: Harold Beany Airbill Number: N/A

Contact Name: Anna Vanderwaal Shipper: Carroll Turnaround requested: Std.

Sampled By: JH, XM Form filled out by: K. McPeak

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))	
06.15.20	0812	101120-SS215	1	Substrate	X							
	0841	-SS214	1		X							
	0902	-SS212	1		X							
	0930	-SS202	1		X							
	0953	-SS203	1		X							
	1048	-SS341	1		X							
	1111	-SS347	1		X							
	1219	-SS350	1		X							
	1235	-SS352	1		X							
	1320	-SS217	1		X							
	1343	-SS219	1		X							
	1406	-SS220	1		X							
Total Number of Containers					12							

1) Released by: A. Vanderwaal 2) Released by: _____

Print name: _____ Print name: _____

Signature: [Signature] Signature: _____

Company: [Signature] Company: _____

Date/Time: 6/15/20 1634 Date/Time: _____

2) Rec'd by: _____ 2) Rec'd by: _____

Print name: _____ Print name: _____

Signature: _____ Signature: _____

Company: _____ Company: _____

Date/Time: _____ Date/Time: _____

Purchase Order / Statement of Work # CLF-0427206

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

10 3209

1 of 1
 Project/Client Name: Duane & Associates
 Project Number: 180067-02602
 Contact Name: Amara Vandervort
 Sampled By: RM JH

Ship to: Harold L Benny and Associates
 Attn: Harold L Benny
 Shipper: Amara Vandervort
 Form filled out by: R Matheson
 Shipping Date: 6/16/20
 Airbill Number: NA
 Turnaround requested: SID

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (lar tag number(s))
					1) Rec'd by:	2) Rec'd by:	3) Rec'd by:	4) Rec'd by:	
6/16/20	0812	LDM20-SS340	1	sediment	X				
	0829	-SS353	1		X				
	0847	-SS345	1		X				
	0922	-SS342	1		X				
	0943	-SS351	1		X				
	1004	-SS348	1		X				
	1027	-SS349	1		X				
	1050	-SS346	1		X				
	1225	-SS160	1		X				
	1243	-SS204	1		X				
	1303	-SS210	1		X				
Total Number of Containers									

1) Released by: _____
 Print name: Brandi Quinlan
 Signature: Brandi Quinlan
 Company: Windward
 Date/Time: 6/16/20 15:48

2) Released by: _____
 Print name: _____
 Signature: _____
 Company: _____
 Date/Time: _____

Purchase Order / Statement of Work # CLP-0427206

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

19 3210

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: Amera Vandervoort
 Sampled By: J.H. R.M.

Ship to: Harold L Benny and Associates
 Attn: Harold Benny
 Shipper: Courier
 Form filled out by: R. Methonnet

Shipping Date: 6/17/20
 Airbill Number: NA
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (jar tag number(s))
					Gravel size	PSEP					
6/17/20	0842	LDW20-SS324	1	sediment	X						
	0922	-SS326	1		X						
	1013	-SS365	1		X						
	1034	-SS368	1		X						
	1052	-SS372	1		X						
	1135	-SS426	1		X						
	1157	-SS421	1		X						
	1323	-SS327	1		X						
	1402	-SS331	1		X						
	1425	-SS332	1		X						
Total Number of Containers											

1) Released by: [Signature] 2) Rec'd by: _____
 Print name: Brandi Quinlan 2) Rec'd by: _____
 Signature: [Signature] Company: _____
 Company: windward Date/Time: _____
 Date/Time: 6/17/20 16:02 Date/Time: _____

Purchase Order / Statement of Work # CLF-0427206

* Distribution: White copies accompany shipment; yellow retained by consignee.

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
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To be completed by Laboratory upon sample receipt:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

119 3215

Project/Client Name: Duwanish AOCY
 Project Number: 180067-02.02
 Contact Name: Amyra Vanderwort
 Sampled By: RM, JH

Ship to: Harold L Benny and Associates
 Atn: Harold Benny
 Shipper: Air courier
 Form filled out by: P Mathonnet
 Shipping Date: 6/18/20
 Airbill Number: NA
 Turnaround requested: SLD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions [lar tag number(s)]	
					Grain Size	PSEP					
6/18/20	0911	LDW20-SS251	1	sediment	X						
	0939	-SS264	1		X						
	1036	-SS409	1		X						
	1119	-SS310	1		X						
	1225	-SS318	1		X						
	1242	-SS222	1		X						
	1304	-SS359	1		X						
	1330	-SS377	1		X						
	1407	-SS379	1		X						
	1447	-SS388	1		X						
Total Number of Containers			10								
1) Released by: <u>A Vanderwort</u>			1) Rec'd by: <u>[Signature]</u>		Purchase Order / Statement of Work # <u>CAF-0427206</u>					2) Rec'd by: <u>[Signature]</u>	
Print name: <u>A Vanderwort</u>			Print name: <u>[Signature]</u>		2) Released by: <u>[Signature]</u>		2) Rec'd by: <u>[Signature]</u>		Company: <u>[Signature]</u>		
Signature: <u>[Signature]</u>			Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>		Company: <u>[Signature]</u>		
Company: <u>Vanderwort</u>			Company: <u>[Signature]</u>		Company: <u>[Signature]</u>		Company: <u>[Signature]</u>		Company: <u>[Signature]</u>		
Date/Time: <u>018/20 1610</u>			Date/Time: <u>06/20/20 (1610)</u>		Date/Time: <u>[Signature]</u>		Date/Time: <u>[Signature]</u>		Date/Time: <u>[Signature]</u>		

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

310 3217

Project/Client Name: Dunsmuir AOCY
 Project Number: 180067-02.02
 Contact Name: Amara Vandervort
 Sampled By: RM JH

Ship to: Harold L Benny and Associates
 Attn: Harold Benny Shipping Date: 6/19/20
 Shipper: courier Airbill Number: NA
 Form filled out by: R Matmonet Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions [for tag number(s)]
					Grainsiz	ASEP			
6/19/20	0725	LOW 20-SS 224	1	Sediment	X				
	0754	-SS 232	1		X				
	0816	-SS 240	1		X				
	0838	-SS 244	1		X				
	0851	-SS 243	1		X				
	0942	-SS 269	1		X				
	1001	-SS 261	1		X				
	1020	-SS 255	1		X				
	1042	-SS 250	1		X				
	1110	-SS 245	1		X				
	1207	-SS 222	1		X				
	1221	-SS 223	1		X				
Total Number of Containers			12						
1) Released by: <u>A Vandervort</u>					2) Rec'd by: <u>[Signature]</u>				
Print name: <u>A Vandervort</u>					Print name: <u>[Signature]</u>				
Signature: <u>[Signature]</u>					Signature: <u>[Signature]</u>				
Company: <u>Vandervort</u>					Company: <u>ART</u>				
Date/Time: <u>6/19/20 1652</u>					Date/Time: <u>6/19/2020 1632</u>				
Purchase Order / Statement of Work # <u>CLF 04272016</u>									

* Distribution: White copies accompany shipment; yellow retained by consignee.

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Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3300

Project/Client Name: Durhamish, ANCI Ship to: Harold L Brany + Assoc.
 Project Number: 180067102.02 Atn: Harold Brany Shipping Date: 6/23/20
 Contact Name: Amya Vandorast Shipper: Courier Airbill Number: NA
 Sampled By: TH, KCM Form filled out by: K McPee Turnaround requested: SH

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)		Comments / Instructions [jar tag number(s)]
					Gran size	PSEP	
06.23.20	0859	LDW20-SS306	1	Sediment	X		
	0916	-SS308	1		X		
	1013	-SS401	1		X		
	1039	-SS406	1		X		
	1020	-SS415	1		X		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> Release 6/23/20 </div>							
1) Released by: <u>Brandi Quisenberry</u>		1) Rec'd by: <u>[Signature]</u>		Purchase Order / Statement of Work # <u>CLF-0427206</u>		2) Rec'd by: <u>[Signature]</u>	
Print name: <u>Brandi Quisenberry</u>		Company: <u>ARI</u>		2) Released by: <u>[Signature]</u>		Print name: <u>[Signature]</u>	
Signature: <u>[Signature]</u>		Company: <u>ARI</u>		Signature: <u>[Signature]</u>		Company: <u>[Signature]</u>	
Company: <u>Windward</u>		Date/Time: <u>6/23/2020 15:43</u>		Date/Time: <u>6/23/2020 15:43</u>		Date/Time: <u>[Signature]</u>	

To be completed by Laboratory upon sample receipt:

Date of receipt: <u> </u>	Laboratory W.O. #: <u> </u>
Condition upon receipt: <u> </u>	Time of receipt: <u> </u>
Cooler temperature: <u> </u>	Received by: <u> </u>

* Distribution: White copies accompany shipment; yellow retained by consignee.



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

3302

Project/Client Name: Duwamish NW4
 Project Number: 180067-02.02
 Contact Name: Aaron Vandervort
 Sampled By: JH, KM

Ship to: Harold & Betty's Assoc.
 Atn: Harold Beatty
 Shipper: Carrier
 Form filled out by: E. Mitchell
 Shipping Date: 6/29/20
 Airbill Number: N/A
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (Jar tag number(s))	
					Grain size	PSEP				
06.24.20	0751	LOW20-SS301	1	Sediment	X					
	0818	-SS302	1		X					
	0842	-SS309	1		X					
	0913	-SS323	1		X					
	1111	-SS404	1		X					
	1136	-SS407	1		X					
REMOVED 6/24/20										
Total Number of Containers					Purchase Order / Statement of Work #					
6					CLF-042-2206					
1) Released by: <u>Prandi Gansse</u>			1) Rec'd by: <u>[Signature]</u>			2) Released by: _____			2) Rec'd by: _____	
Print name: <u>Prandi Gansse</u>			Company: _____			Print name: _____			Company: _____	
Signature: <u>[Signature]</u>			Company: <u>ART</u>			Signature: _____			Company: _____	
Date/Time: <u>6/24/20 16:23</u>			Date/Time: <u>6/24/20 16:23</u>			Date/Time: _____			Date/Time: _____	

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by: _____

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

1 of 1

3306

Project/Client Name: Duvernish Area
 Project Number: 180167-02.02
 Contact Name: America Vandorvt
 Sampled By: TH. KM

Ship to: AL1
 Atn: Amade Volgardson
 Shipper: corner
 Form filled out by: K. M. P. P. P.
 Shipping Date: 6/25/20
 Airbill Number: NA
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (lar tag number(s))
					grain size	PSEP			
06.25.20	0710	LOW20-SS330	1	Sediment	X				
	0736	-SS304	1		X				
	0753	-SS319	1		X				
	0817	-SS393	1		X				
	0842	-SS383	1		X				
	0907	-SS390	1		X				
	0948	-SS389	1		X				
	1055	-SS413	1		X				
	1111	-SS416	1		X				
	1132	-SS418	1		X				
	1200	-SS419	1		X				
	1244	-SS392	1		X				
Total Number of Containers			12						
Purchase Order / Statement of Work # <u>CLF-0427206</u>									
1) Released by: <u>A. Vandorvt</u>		1) Rec'd by: <u>[Signature]</u>		2) Released by: _____		2) Rec'd by: _____			
Print name: _____		Company: _____		Print name: _____		Company: _____			
Signature: <u>[Signature]</u>		Company: <u>ARI</u>		Signature: _____		Company: _____			
Date/Time: <u>6/25/20 1650</u>		Date/Time: <u>6/25/2020 1650</u>		Date/Time: _____		Date/Time: _____			

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3931

Project/Client Name: Dunnish Acry
 Project Number: 180067-02.02
 Contact Name: Adam Vandroot
 Sampled By: TH/EM

Ship to: Harold L. Berry & Assoc.
 Atn: David Bray
 Shipper: Courier
 Form filled out by: K. M. Peak
 Shipping Date: 6/26/20
 Airbill Number: NA
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)			Comments / Instructions (jar tag number(s))			
					Crains 26	PSEP					
06/26/20	0846	LOW20-SS424	1	Solvent	X						
	0914	-SS268	1		X						
	0931	-SS266	1		X						
	0951	-SS258	1		X						
	1013	-SS257	1		X						
	1039	-SS228	1		X						
	1057	-SS236	1		X						
	1115	-SS247	1		X						
<i>[Handwritten signature and date: K. M. Peak 6/26/20]</i>											
Total Number of Containers			8	Purchase Order / Statement of Work # CLF-2472206							
1) Released by: <u>Kate M. Peak</u>			1) Rec'd by: <u>[Signature]</u>			2) Released by: _____			2) Rec'd by: _____		
Print name: <u>Kate M. Peak</u>			Company: <u>ARI</u>			Print name: _____			Company: _____		
Signature: <u>[Signature]</u>			Date/Time: <u>6/26/20 1556</u>			Signature: _____			Date/Time: _____		
Company: <u>Dunnish</u>			Date/Time: <u>6/26/20 1656</u>			Company: _____			Date/Time: _____		

* Distribution: White copies accompany shipment; yellow retained by consignee.

To be completed by Laboratory upon sample receipt:

Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3913

Project/Client Name: Duwamish Area Ship to: Harold L Beard Assoc
 Project Number: 190067-02.02 Attn: Harold Beard Shipping Date: RA
 Contact Name: A. Vandervort Shipper: Coirec Airbill Number: RA
 Sampled By: Wardward Form filled out by: AV Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)					Comments / Instructions (jar tag number(s))	
6/30/20	0739	LOW20-55423	1	Sediment	GRANULOSED						
Total Number of Containers											
Purchase Order / Statement of Work # <u>CLF-0427206</u>											

1) Released by: THAN DO 2) Released by:
 Print name: THAN DO Print name:
 Signature: [Signature] Signature:
 Company: WINDWARD ENV Company:
 Date/Time: 06.30.20 / 0715 Date/Time:

2) Rec'd by:
 Print name:
 Signature:
 Company:
 Date/Time:

* Distribution: White copies accompany shipment; yellow retained by consignee.

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

102 3900

Project/Client Name: Dunsmuir Ash
 Project Number: 180067-02.02
 Contact Name: Amara Vanderwert
 Sampled By: Linnward

Ship to: ARI
 Atn: Amara Vanderwert
 Shipper: Carrier
 Form filled out by: RQ
 Shipping Date: 6/5/2020
 Airbill Number: N/A
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Tests(s) Requested (check test(s) required)			Comments / Instructions (Jar tag number(s))
					ARCHIVE			
6/4/2020	7:50	LDW20-SC165	6	Sediment	X			
6/4/2020	8:54	LDW20-SC164	6	Sediment	X			
Total Number of Containers								
1) Released by:		1) Rec'd by:		Purchase Order / Statement of Work #			2) Rec'd by:	
Print name: <u>Erin K. Fairlie</u>		Print name: <u>[Signature]</u>		<u>11F-012720A</u>			2) Rec'd by:	
Signature: <u>[Signature]</u>		Signature: <u>[Signature]</u>				Company:		
Company: <u>Windward</u>		Company: <u>ARI</u>				Company:		
Date/Time: <u>6/4/2020 16:30</u>		Date/Time: <u>6/4/2020 16:30</u>				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:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Tier 2
ME 3902

Project/Client Name: Durham Sh Assoc
 Project Number: 180067-0202
 Contact Name: Amera Vandenberg
 Sampled By: Windward

Ship to: AR1
 Atn: Amanda Bjorkson
 Shipper: Carrier
 Form filled out by: A Vandenberg
 Shipping Date: 6/27/02
 Airbill Number: N/A
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)										Comments / Instructions [lar tag number(s)]	
					PCB	SVOC	TOC	Solids	DF	metals	gran size	archive	CPAHs	Other		
6/18/02	1333	LDW20-IT200	7	Sediment	X	X	X	X	X	X	X	X	X	X	X	Hold All as Archive All Samples All T1 & archives
Total Number of Containers				7	Purchase Order / Statement of Work #										CF-0427202	
1) Released by: <u>[Signature]</u>				1) Rec'd by: <u>[Signature]</u>				2) Released by: <u>[Signature]</u>				2) Rec'd by: <u>[Signature]</u>				
Print name: <u>[Name]</u>				Print name: <u>[Name]</u>				Print name: <u>[Name]</u>				Print name: <u>[Name]</u>				
Signature: <u>[Signature]</u>				Signature: <u>[Signature]</u>				Signature: <u>[Signature]</u>				Signature: <u>[Signature]</u>				
Company: <u>[Company]</u>				Company: <u>[Company]</u>				Company: <u>[Company]</u>				Company: <u>[Company]</u>				
Date/Time: <u>[Date/Time]</u>				Date/Time: <u>[Date/Time]</u>				Date/Time: <u>[Date/Time]</u>				Date/Time: <u>[Date/Time]</u>				

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Condition upon receipt:	Time of receipt:
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CHAIN-OF-CUSTODY/TEST REQUEST FORM

Tier 2
No 3849

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: A Vandervort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson
 Shipper: Courier
 Form filled out by: AV
 Shipping Date: 6/8/20
 Airbill Number: NA
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Alchne						
6/8/20	0841	LDW20-SC148A	6	Sediment	X						
	0841	LDW20-SC148B	6		X						
	1036	LDW20-SC155A	6		X						
	1036	LDW20-SC155Z	6		X						
	1237	LDW20-SC166A	6		X						
	1237	LDW20-SC166B	6		X						
	1237	LDW20-SC166Z	6		X						
6/8/20	1438	LDW20-SC208Z	6		X						
6/8/20	1438	LDW20-SC208A	6	Sediment	X						
Total Number of Containers			54	Purchase Order / Statement of Work # <u>CLF-042720a</u>							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>A. Vandervort</u>	<u>[Signature]</u>	Print name:	
Signature: <u>A. Vandervort</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/8/20 1620</u>	Date/Time: <u>6/8/20 1620</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

11er2

3907

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: A. Vanderwolf
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson
 Shipper: Courier
 Form filled out by: A Vanderwolf
 Shipping Date: 6/9/20
 Airbill Number: WA
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
6/9/20	0753	LDW20-IT354	7	Sediment	X						
	0813	LDW20-SC362	6		X						
	0826	LDW20-IT363	7		X						
6/9/20	0902	LDW20-IT357	7	Sediment	X						
6/9/20	0924	LDW20-SC355	6	Sediment	X						
6/9/20	0931	LDW20-SC337	6	Sediment	X						
6/9/20	0942	LDW20-SC335	6	Sediment	X						
Total Number of Containers			27	Purchase Order / Statement of Work # CLF-0427202							

1) Released by: <u>A Vanderwolf</u> Print name: <u>A Vanderwolf</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/9/20 1600</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/9/2020 1600</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Company: _____ Date/Time: _____
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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

Tier 2

110 3.90

CHAIN-OF-CUSTODY/TEST REQUEST FORM

of

Project/Client Name: Duwamish AOC 4
 Project Number: 180067-02.02
 Contact Name: A Vanderwolf
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/10/20
 Shipper: Carrier Airbill Number: NA
 Form filled out by: A Vanderwolf Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Asph						
6/10/20	0849	SC3, LDW20-SC333	6	Sediment	X						
	0941	LDW20-IT373	7		X						
	0949	LDW20-IT375	7		X						
	1051	LDW20-SC2387	6		X						
	1051	LDW20-SC238A	6		X						
	1208	LDW20-SC235A	6		X						
	1208	LDW20-SC235Z	6		X						
	1235	LDW20-SC250A	6		X						
6/10/20	1235	LDW20-SC250Z	6	Sediment	X						
Total Number of Containers			56	Purchase Order / Statement of Work # CLF-0427200							
1) Released by: <u>[Signature]</u> Print name: <u>A Vanderwolf</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/10/20 11:03</u>			1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/10/20 16:31</u>			2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____			2) Rec'd by: _____ Company: _____ Date/Time: _____		

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Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

TIER 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3949

Project/Client Name: Duwamish Area 4
 Project Number: 18C067-02.02
 Contact Name: Amara Vanderwort
 Sampled By: Windward

Ship to: AEI
 Attn: Amara Volgardsen Shipping Date: 10/11/2020
 Shipper: Carrier Airbill Number: NA
 Form filled out by: Brandi Quinlisk Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
6/11/2020	7:36	LDW20-IT252	7	Sediment	X						
	8:02	-IT263	7		X						
	9:11	-SC269A	6		X						
	9:11	-SC269Z	6		X						
	9:30	-SC261A	6		X						
	9:30	-SC261Z	6		X						
	10:13	-SC255A	6		X						
	10:13	-SC255Z	6		X						
	11:51	-SC245A	6		X						
	11:51	-SC245Z	6		X						
	12:18	-SC271	6		X						
	12:27	-SC273	6		X						

Total Number of Containers: 74 Purchase Order / Statement of Work # CLF-042720a

1) Released by: <u>Brandi Quinlisk</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quinlisk</u>	Company: <u>AEI</u>	Print name:	Company:
Signature: <u>[Signature]</u>	Company: <u>Windward</u>	Signature:	Company:
Date/Time: <u>6/11/2020 16:04</u>	Date/Time: <u>6/11/2020 16:04</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Tier 2
3855

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Project/Client Name: Duwamish AOC4
 Project Number: 190007-02.02
 Contact Name: A Vanderhoff
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/12/20
 Shipper: Courier Airbill Number: NA
 Form filled out by: A. Vanderhoff Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions (Jar tag number(s))	
					Acid	Alkaline	Ammonia	Ammonium	Asbestos	Bacteria	Heavy Metals		Organics
6/12/20	0807	LDW20-SC230A	6	Sediment	X								
	0807	LDW20-SC230Z	6		X								
	0829	LDW20-SC223Z	6		X								
	0858	LDW20-SC222A	6		X								
	0858	LDW20-SC222Z	6		X								
	0923	LDW20-SC220Z	6		X								
	1122	LDW20-SC217Z	6		X								
	0946	LDW20-SC219A	6		X								
	0946	LDW20-SC219B	6		X								
	0946	LDW20-SC219Z	6		X								
6/12/20	1306	LDW20-SC212Z	6	Sediment	X								
Total Number of Containers			66	Purchase Order / Statement of Work # <u>CLF-012730a</u>									

1) Released by: <u>A Vanderhoff</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>A Vanderhoff</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>	Date/Time: <u>6/12/20 1628</u>	Signature:	Date/Time:
Company: <u>Windward</u>		Company:	

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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:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Tier 2
3093

Project/Client Name: Dunsmuir AOC4
 Project Number: 180067-02.02
 Contact Name: A Vandervort
 Sampled By: Wardward

Ship to: ARI
 Attn: Armanda Johnson Shipping Date: 6/15/20
 Shipper: Carrier Airbill Number: NA
 Form filled out by: AV Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
6/15/20	0709	LOW20-SC339	6	Sediment	X						
	0742	LOW20-SC343	6	↓	X						
	1129	LOW20-SC160A	6		X						
	1129	SC160B	6		X						
	1129	SC160Z	6		X						
	1239	SC210A	6		X						
	1239	SC210Z	6		X						
	1327	SC204A	6		X						
6/15/20	1327	LOW20-SC204Z	6		Sediment	X					
AV 6/15/20											
Total Number of Containers			34	Purchase Order / Statement of Work # CLF-0427209							

1) Released by: <u>Armanda Vandervort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>Armanda Vandervort</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>		Signature:	
Company: <u>Wardward</u>		Company:	
Date/Time: <u>6/15/20 1639</u>	Date/Time: <u>6/15/20 1634</u>	Date/Time:	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: _____

Tier 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3915

Project/Client Name: Duwamish Arch
 Project Number: 180067-02.02
 Contact Name: Amara VanderVort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Volhardson Shipping Date: 6/16/2020
 Shipper: Cowier Airbill Number: NA
 Form filled out by: B. Quintisk Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Archive	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
6/16/2020	7:40	LDW20-SC325	6	Sediment	X							
	8:13	LDW20-SC328	6	Sediment	X							
	8:23	LDW20-SC329	6	Sediment	X							
	11:54	LDW20-IT387	7	Sediment	X							
	13:22	LDW20-IT391	7	Sediment	X							
Total Number of Containers			32	Purchase Order / Statement of Work # <u>0LF-042720a</u>								

1) Released by: Print name: <u>Brandi Quintisk</u> Signature: <u>Brandi Quintisk</u> Company: <u>Windward</u> Date/Time: <u>6/16/2020 15:48</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/16/2020 1548</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: 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:

11er 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3921

Project/Client Name: Duwamish AOC4
 Project Number: 100067-02.02
 Contact Name: Amara Vanderhoff
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/17/2020
 Shipper: Courier Airbill Number: NA
 Form filled out by: B. Quinlisk Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
6/17/2020	8:26	LDW20-IT425	7	Sediment	X						
6/17/2020	8:33	LDW20-IT427	7	Sediment	X						
6/17/2020	9:13	LDW20-SP370	6	Sediment	X						
6/17/2020	11:46	LDW20-SC306	6	Sediment	X						
6/17/2020	11:55	LDW20-SC314	6	Sediment	X						
6/17/2020	12:08	LDW20-IT367	7	Sediment	X						
6/17/2020	12:15	LDW20-IT371	7	Sediment	X						
6/17/2020	13:13	LDW20-IT386	7	Sediment	X						
6/17/2020	13:19	LDW20-IT385	7	Sediment	X						
6/17/2020	13:23	LDW20-IT382	7	Sediment	X						
Total Number of Containers			97	Purchase Order / Statement of Work # <u>CLF-042720a</u>							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quinlisk</u>	<u>[Signature]</u>	Print name:	
Signature: <u>Brandi Quinlisk</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/17/2020 16:02</u>	Date/Time: <u>6/17/2020 16:02</u>	Date/Time:	

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

12 3091

Project/Client Name: Duwamish AOC4
 Project Number: 180667-02.02
 Contact Name: A Vandervort
 Sampled By: Woodward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/18/20
 Shipper: Carrier Airbill Number: NA
 Form filled out by: AV Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
6/18/20	0750	LOW20-IT378	8	Sediment	X						
	0756	-IT376	8		X						
	0814	-IT358	7		X						
	0827	-IT315	7		X						
	0833	-IT305	7		X						
	0847	-IT267	7		X						
	0859	-IT260	7		X						
	0921	-SC249A	6		X						
	0921	-SC249B	6		X						
	0921	-SC249Z	6		X						
	0940	-SC254A	6		X						
	0940	LOW20-SC254B	6	Sediment	X						

6/18/20 0940 Total Number of Containers: 81 Purchase Order / Statement of Work # CLF-0427200

1) Released by: <u>A Vandervort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>A Vandervort</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>		Signature:	
Company: <u>Woodward</u>		Company:	
Date/Time: <u>6/18/20 1600</u>	Date/Time: <u>6/19/2020 1610</u>	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt: <u>6/18/20</u>	Laboratory W.O. #: <u>180667-02.02</u>
Condition upon receipt: <u>Good</u>	Time of receipt: <u>1600</u>
Cooler temperature: <u>4C</u>	Received by: <u>[Signature]</u>

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3910

Project/Client Name: Duwamish AOC 4
 Project Number: 180067-02.02
 Contact Name: A. Vandewort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/18/20
 Shipper: Carrier Airbill Number: NA
 Form filled out by: AV Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					Archive						
6/18/20	0940	LOW20-SC254Z	6	Sediment	X						
	0956	- SC262	6		X						
	1025	- SC265A	6		X						
	1025	- SC265B	6		X						
	1025	- SC265E	6		X						
	1113	- SC270A	6		X						
	1113	- SC270B	6		X						
	1113	- SC270Z	6		X						
	1130	- SC246A	6		X						
	1130	- SC246B	6		X						
	1130	- SC246Z	6		X						
6/18/20	1230	LOW20-IT360	7	Sediment	X						
Total Number of Containers			73	Purchase Order / Statement of Work # CLF-042720a							

1) Released by: <u>A. Vandewort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>A. Vandewort</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>		Signature:	
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/18/20 1610</u>	Date/Time: <u>6/18/2020 1610</u>	Date/Time:	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: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

TIER 2
3923

Project/Client Name: Dunsmuir Assoc
 Project Number: 180069-08.02
 Contact Name: A Henderson
 Sampled By: Kumbura

Ship to: ARI
 Attn: Amanda Johnson
 Shipping Date: 6/19/20
 Shipper: Cover
 Airbill Number: N/A
 Form filled out by: AV
 Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)		Comments / Instructions [lar tag number(s)]
					Archive		
6/19/20	0728	LD0020-IT259	7	Sediment	X		
	0736	-IT2510	7		X		
	0743	-IT233	7		X		
	0748	-IT229	7		X		
	0757	-IT239	7		X		
	0820	-IT417	7		X		
	1008	-SC242A	6		X		
	1003	-SC242B	6		X		
	1003	-SC242E	6		X		
	1037	-SC241A	6		X		
	1037	-SC241B	6		X		
6/19/20	1037	LD0020-SC241E	6	Sediment	X		
Total Number of Containers			78				
1) Released by: <u>A Henderson</u>				2) Rec'd by: <u>[Signature]</u>			
Print name: <u>A Henderson</u>				Print name: <u>[Signature]</u>			
Signature: <u>[Signature]</u>				Signature: <u>[Signature]</u>			
Company: <u>Dunsmuir</u>				Company: <u>ARI</u>			
Date/Time: <u>6/19/20 1652</u>				Date/Time: <u>6/19/2020 1652</u>			
				Purchase Order / Statement of Work # <u>CLF-0427200</u>			

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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2 of 3

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3922
Terra

Project/Client Name: Ducommun Assoc Ship to: ARI
 Project Number: 180067-Da02 Atn: Amelia Janson Shipping Date: 6/19/20
 Contact Name: A Vanderhoft Shipper: Corner Airbill Number: VA
 Sampled By: Vanderhoft Form filled out by: AV Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions (Jar tag number(s))
					Archive				
6/19/20	1108	LDW30-SC337A	6	Solvent	X				
	1108	SC337B	6		X				
	1108	SC337C	6		X				
	1108	SC337E	6		X				
	1125	SC339A	6		X				
	1125	SC339B	6		X				
	1125	SC337E	6		X				
	1152	SC331A	6		X				
	1152	SC331B	6		X				
	1152	SC331E	6		X				
	1209	IT337	7		X				
6/19/20	1219	LDW30-IT218	7	Solvent	X				
Total Number of Containers			74						
Purchase Order / Statement of Work # <u>CLF-0427202</u>									
1) Released by: <u>A Vanderhoft</u>					2) Rec'd by: <u>[Signature]</u>				
Print name: <u>A Vanderhoft</u>					Print name: <u>[Signature]</u>				
Signature: <u>[Signature]</u>					Signature: <u>[Signature]</u>				
Company: <u>Ducommun</u>					Company: <u>ARI</u>				
Date/Time: <u>6/19/20 1032</u>					Date/Time: <u>6/19/20 201632</u>				

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

7112
3864

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02 02
 Contact Name: A Vandervoort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/22/20
 Shipper: Carrier Airbill Number: _____
 Form filled out by: A. Vandervoort Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
6/22/20	0920	LOW20-IT400	7	Sediment	X						
	1013	-IT410	7		X						
	1142	SC225A	6		X						
	1148	SC225B	6		X						
	1148	SC225E	6		X						
	1212	SC216A	6		X						
	1212	SC216B	6		X						
	1212	SC216C	6		X						
	1212	SC216E	6		X						
6/22/20	1319	LOW20-SC2060	6	Sediment	X						
Total Number of Containers			<u>62</u>	Purchase Order / Statement of Work # <u>CLF-0427200</u>							

1) Released by: <u>A. Vandervoort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by: _____	2) Rec'd by: _____
Print name: <u>A. Vandervoort</u>	Company: <u>ARI</u>	Print name: _____	Company: _____
Signature: <u>[Signature]</u>	Date/Time: <u>6/22/2020 1547</u>	Signature: _____	Date/Time: _____
Company: <u>Windward</u>		Company: _____	

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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

11112

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3871

Project/Client Name: Duwamish Area 4
 Project Number: 180067-02.02
 Contact Name: Amara Vanderloft
 Sampled By: Windward

Ship to: ARI
 Attn: Amara Volgardsen Shipping Date: 6/23/2020
 Shipper: Courier Airbill Number: NA
 Form filled out by: B. Quinlisk Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					ARCHIVE						
6/23/2020	6:06	LDW20-IT384	7	Sediment	X						
	7:14	-SC380	6		X						
	8:18	-IT317	7		X						
	9:31	-IT321	7		X						
	9:47	-IT311	7		X						
	11:27	-SC209	6		X						
	11:50	-SC207A	6		X						
	11:50	-SC207E	6		X						
	12:16	-SC213A	6		X						
	12:16	-SC213E	6		X						
	13:05	-SC705A	6		X						
	13:05	-SC205B	6		X						

Total Number of Containers: 76 Purchase Order / Statement of Work # CLF-042720a

1) Released by: Print name: <u>Brandi Quinlisk</u> Signature: <u>Brandi Quinlisk</u> Company: <u>Windward</u> Date/Time: <u>6/23/2020 15:35</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/23/2020 16:35</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

2 of 2

Tier 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3873

Project/Client Name: Duwanish AOC4
 Project Number: 180067-02.02
 Contact Name: Amera Vanderhoff
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Volgardsen
 Shipper: Courier
 Form filled out by: B. Quinlisk
 Shipping Date: 6/23/2020
 Airbill Number: NA
 Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					AR	TH	PH	SR	PC	OC	
6/23/2020	13:05	LDW20-SE205Z	6	Sediment	X						
Total Number of Containers			<u>6</u>	Purchase Order / Statement of Work # <u>OLF-042720a</u>							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quinlisk</u>	<u>[Signature]</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/23/2020 15:35</u>	Date/Time: <u>6/23/2020 1535</u>	Date/Time:	Date/Time:

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Tier 2

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3928

Project/Client Name: Duwamish A004
 Project Number: 180067-02.02
 Contact Name: Amara Vanderhoff
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/24/2020
 Shipper: Courier Airbill Number: N/A
 Form filled out by: B. Quinlisk Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					ARCHIVE						
6/24/2020	9:22	LDW20-IT307	7	Sediment	X						
	9:44	-IT303	7		X						
	10:20	-IT107	7		X						
	10:32	-IT110	7		X						
	11:19	-IT112	7		X						
	11:26	-IT116	7		X						
	11:34	-IT120	7		X						
	12:10	-IT124	7		X						
	12:18	-IT137	7		X						
	12:27	-IT145	7		X						
	12:57	-SC134	6		X						
	13:03	-SC128	6		X						
Total Number of Containers			82	Purchase Order / Statement of Work # CLF-047720a							

1) Released by: Print name: <u>Brandi Quinlisk</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/24/2020 16:23</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/24/20 16:23</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

TIER 2

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3930

Project/Client Name: Duwanish AOC4
 Project Number: 180067-02.02
 Contact Name: Amara Vanderwort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/24/2020
 Shipper: Bowler Airbill Number: NA
 Form filled out by: B. Quinlan Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions (Jar tag number(s))
					AROHIVE							
6/24/2020	13:45	LDW20-SC136	6	Sediment	X							
↓	13:53	↓ -SC131	6	↓	X							
↓	14:07	↓ -SC132	6	↓	X							
↓	14:24	↓ -SC141	6	↓	X							
Total Number of Containers			24	Purchase Order / Statement of Work # CLF-642770a								
1) Released by:		1) Rec'd by:			2) Released by:			2) Rec'd by:				
Print name: <u>Brendi Quinlan</u>		Signature: <u>[Signature]</u>			Print name:			Signature:				
Signature: <u>Brendi Quinlan</u>		Company: <u>ARI</u>			Company:			Company:				
Company: <u>Windward</u>		Date/Time: <u>6/24/2020 16:23</u>			Date/Time:			Date/Time:				

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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3860

Project/Client Name: Duwamish AOC4
 Project Number: 180067 02 02
 Contact Name: A Vanderwolf
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/25/20
 Shipper: Courier Airbill Number:
 Form filled out by: A Vanderwolf Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [jar tag number(s)]
					Alcove						
6/25/20	0739	LDW20-TT143	7	Sediment	X						
	0744	TT147	7		X						
	0756	TT152	7		X						
	0804	SC149	6		X						
	0820	SC126	6		X						
	0828	SC138	6		X						
	0946	SE207A	6		X						
6/25/20	0946	LDW20-SC201B	6	Sediment	X						
	1152	IT300	7		X						
	1243	SC111	6		X						
	1253	SC108	6		X						
6/25/20	1300	LDW20 SC104	6	Sediment	X						

Total Number of Containers: 76 Purchase Order / Statement of Work # CLF-0427200

1) Released by: <u>A Vanderwolf</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by: <u> </u>	2) Rec'd by: <u> </u>
Print name: <u>A Vanderwolf</u>	Company: <u>ARI</u>	Print name: <u> </u>	Company: <u> </u>
Signature: <u>[Signature]</u>		Signature: <u> </u>	
Company: <u>Windward</u>		Company: <u> </u>	
Date/Time: <u>6/25/20 1650</u>	Date/Time: <u>6/25/20 1650</u>	Date/Time: <u> </u>	Date/Time: <u> </u>

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Condition upon receipt: <u> </u>	Time of receipt: <u> </u>
Cooler temperature: <u> </u>	Received by: <u> </u>

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

File 2

3861

Project/Client Name: Duwamish AOC4
 Project Number: 1800107-0202
 Contact Name: A Vanderwolf
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/25/20
 Shipper: Fowler Airbill Number: _____
 Form filled out by: A Vanderwolf Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Archive	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
6/25/20	1312	LOW20-SC103	6	Sediment	X							
	1321	SC100	6		X							
	1329	SC114	6		X							
	1340	SC115	6		X							
	1358	SC118	6		X							
	1406	SC119	6		X							
	1421	SC122	6		X							
6/25/20	1434	LOW20-SC129	6	Sediment	X							
AV 6/25/20												
Total Number of Containers			<u>48</u>	Purchase Order / Statement of Work # <u>CLF-042720a</u>								

1) Released by: <u>A Vanderwolf</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by: _____	2) Rec'd by: _____
Print name: <u>A Vanderwolf</u>	Company: <u>ARI</u>	Print name: _____	Company: _____
Signature: <u>[Signature]</u>		Signature: _____	
Company: <u>Windward</u>		Company: _____	
Date/Time: <u>6/25/20 1650</u>	Date/Time: <u>6/25/20 1650</u>	Date/Time: _____	Date/Time: _____

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Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Tier 2
3852

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02.02
 Contact Name: AVandervoort
 Sampled By: Windward

Ship to: ARI
 Attn: Amanda Johnson Shipping Date: 6/26/20
 Shipper: Courier Airbill Number: _____
 Form filled out by: AVandervoort Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [jar tag number(s)]
					Archive						
6/26/20	0820	LDW20-SC153A	6	Sediment	X						
	0820	SC153B	6	↓	X						
	0820	SC153Z	6		X						
	0905	SC157A	6		X						
	0905	SC157Z	6		X						
	0905	SC163A	6		X						
	0937 ^{AV}	SC163B	6		X						
6/26/20	0937	LDW20-SC163Z	6		Sediment	X					
Total Number of Containers			48	Purchase Order / Statement of Work # <u>CLF-042720a</u>							

1) Released by: Print name: <u>Nicolas Eckhardt</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/26/20 13:26</u>	1) Rec'd by: Print name: _____ Signature: _____ Company: _____ Date/Time: <u>06/26/20 13:26</u>	2) Released by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: Print name: _____ Signature: _____ Company: _____ Date/Time: _____
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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Tier 2
3902

Project/Client Name: Duwamish AOC4
 Project Number: 180067-0202
 Contact Name: Amara Vandervoort
 Sampled By: Woodward

Ship to: ARI
 Attn: Amara Vandervoort
 Shipping Date: 6/15/20
 Shipper: Carrier
 Airbill Number: NA AV
 Form filled out by: A Vandervoort
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [Jar tag number(s)]
					PCRES / SVOC	TOC / Solids	DF	metals	GRAIN / SIEVE	ARCHIVE	CPHIS / JARS	
6/14/20	1333	LOW20-IT200	7	Sediment	X	X	X	X	X	X	X	HOLD ALL as Archive Samples, All Tier 2 archives
Total Number of Containers			7	Purchase Order / Statement of Work # CLF-042720a								
1) Released by: <u>[Signature]</u>		1) Rec'd by: <u>[Signature]</u>			2) Released by:		2) Rec'd by:					
Print name: <u>[Name]</u>		Company: <u>ARI</u>			Print name:		Company:					
Signature: <u>[Signature]</u>		Date/Time: <u>6/15/2020 0936</u>			Signature:		Date/Time:					
Company: <u>[Company]</u>		Date/Time: <u>6/15/20/0936</u>			Company:		Date/Time:					

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 3312

Project/Client Name: Duwamish AOCY
 Project Number: 180667.02.02
 Contact Name: Amya Vandervoort
 Sampled By: KM, TH

Ship to: ARI
 Attn: Amanda Volgardsen
 Shipper: Courier
 Form filled out by: K. McPhee
 Shipping Date: _____
 Airbill Number: NA
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
6/5/20	0708	LOW20-SS164	6	Sediment	X						
	0847	-SS165	6	↓	X						
	0913	-SS200	6	↓	X						
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> K. McPhee 6/5/20 </div>											

Total Number of Containers 18 Purchase Order / Statement of Work # CLF-042720a

1) Released by: <u>A. Vandervoort</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by: _____	2) Rec'd by: _____
Print name: <u>A. Vandervoort</u>	Company: <u>ARI</u>	Print name: _____	Company: _____
Signature: <u>[Signature]</u>	Company: <u>Windward</u>	Signature: _____	Company: _____
Date/Time: <u>6/5/20 1549</u>	Date/Time: <u>6/5/20 1549</u>	Date/Time: _____	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: _____

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3330

Project/Client Name: Duwamish AOCY
 Project Number: 180067-02.02
 Contact Name: Amaria Vanderaart
 Sampled By: TD, RM, KM

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/10/20
 Shipper: carrier Airbill Number: NA
 Form filled out by: K. McPoole Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
6/10/20	0730	LOW20-SS357	6	Sediment	X						
	0830	-SS355	6		X						
	0847	-SS337	6		X						
	1001	-SS335	6		X						
Total Number of Containers				24	Purchase Order / Statement of Work # <u>CLF-042720a</u>						
1) Released by: <u>A. Vanderaart</u> Print name: <u>A. Vanderaart</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/10/20 11:31</u>			1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/10/2020 (63)</u>			2) Released by:			2) Rec'd by:		
Print name:			Company:			Print name:			Company:		
Signature:			Date/Time:			Signature:			Date/Time:		
Company:			Date/Time:			Company:			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:

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CHAIN-OF-CUSTODY/TEST REQUEST FORM

File 3334

Project/Client Name: Duwamish AOCY
 Project Number: 180067-02.02
 Contact Name: Anna Vanderweert
 Sampled By: R.M. King

Ship to: ARI
 Attn: Amada Volgardsen
 Shipper: carrier
 Form filled out by: K. McPeak
 Shipping Date: _____
 Airbill Number: NA
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Aspire						
6/11/20	0813	LDW20-55333	6	Sediment	X						

Total Number of Containers			6	Purchase Order / Statement of Work # CLF-042720A							
1) Released by: <u>Brandi Quinlan</u>			1) Rec'd by: <u>[Signature]</u>			2) Released by:			2) Rec'd by:		
Print name: <u>Brandi Quinlan</u>			Company: <u>ARI</u>			Print name:			Company:		
Signature: <u>[Signature]</u>			Date/Time: <u>6/11/2020 16:02</u>			Signature:			Date/Time:		
Company: <u>Windward</u>			Date/Time: <u>6/11/2020 1550</u>			Company:			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:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

12 3338

Project/Client Name: Duwamish A001
 Project Number: 180067-07.02
 Contact Name: Amanda Volgerdort
 Sampled By: RM, KM

Ship to: ARI
 Attn: Amanda Volgerdort Shipping Date: _____
 Shipper: CORICE Airbill Number: NA
 Form filled out by: K. McPeck Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))				
					Active										
06/12/20	0815	LOW20-SS252	6	sediment	X										
↓	0901	LOW20-SS263	6	↓	X										
↓	0945	LOW20-SS271	6	↓	X										
↓	1032	LOW20-SS273	6	↓											
Total Number of Containers			<u>24</u>	Purchase Order / Statement of Work # <u>CLF-042720a</u>											
1) Released by: _____ Print name: <u>Amanda Volgerdort</u> Signature: _____ Company: <u>Windward</u> Date/Time: <u>06/12/20 16:28</u>				1) Rec'd by: _____ Company: <u>ARI</u> Date/Time: <u>6/12/20 16:28</u>				2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____				2) Rec'd by: _____ Company: _____ Date/Time: _____			

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To be completed by Laboratory upon sample receipt:

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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

Tired
3341

1 of 1

Project/Client Name: Duwamish ACCY
 Project Number: 180067-02.02
 Contact Name: Amara Vandervort
 Sampled By: JH, KM

Ship to: ARI
 Attn: Amara Vandervort Shipping Date: 6/15/20
 Shipper: Courier Airbill Number: NA
 Form filled out by: K. McPeak Turnaround requested: Std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					Archie						
06-15-20	1257	LOW20-SS344	6	Sediment	X						✓
LOW20-SS344 - 6/15/20											
Total Number of Containers			6	Purchase Order / Statement of Work # CLF-042720a							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>A Vandervort</u>	<u>[Signature]</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Woodward</u>		Company:	
Date/Time: <u>6/15/20 1634</u>	Date/Time: <u>6/15/2020 1634</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

119 3207

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02,02
 Contact Name: Amara Vanderwort
 Sampled By: RM JH

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/16/20
 Shipper: Courier Airbill Number: NA
 Form filled out by: R Mathonet Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
6/16/20	0749	LDW20-SS339	6	Sediment	X						
↓	1111	↓ - SS343	6	↓	X						
Total Number of Containers			12	Purchase Order / Statement of Work # <u>CLF-042720a</u>							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quintish</u>	<u>[Signature]</u>	Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/16/2020 15:46</u>	Date/Time: <u>6/16/2020 1548</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

316 3213

Project/Client Name: Dunsmuirish AOCY
 Project Number: 180067-02.02
 Contact Name: Amya Vanderwort
 Sampled By: RM, JH

Ship to: ARI
 Attn: Amanda Volgardsen
 Shipper: courier
 Form filled out by: P. Matlomet
 Shipping Date: 6/1/20
 Airbill Number: USA
 Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)		Comments / Instructions (for tag number(s))
					Archive		
6/1/20	0840	LDW20-SS 328 -SS 329	6	sediment	X		
Total Number of Containers <u>12</u>							
Purchase Order / Statement of Work # <u>CLF-0427209</u>							
1) Released by: _____		1) Rec'd by: _____		2) Released by: _____		2) Rec'd by: _____	
Print name: <u>A Vanderwort</u>		Print name: _____		Print name: _____		Print name: _____	
Signature: _____		Signature: <u>ARI</u>		Signature: _____		Signature: _____	
Company: _____		Company: _____		Company: _____		Company: _____	
Date/Time: <u>6/1/20</u>		Date/Time: <u>6/18/2026 1610</u>		Date/Time: _____		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: _____



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CHAIN-OF-CUSTODY/TEST REQUEST FORM

112 3301

Project/Client Name: Duwamish Area
 Project Number: 180067-02.02
 Contact Name: Amya Vanderroot
 Sampled By: JH, KM

Ship to: ARI
 Attn: Amanda V. Agardson Shipping Date: 6/23/20
 Shipper: Courier Airbill Number: NA
 Form filled out by: K. McPeak Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					Asbore						
06.23.20	0955	LDW20-SS400	6	sediment	X						
	1124	-55425	6		X						
	1241	-55206	6		X						
	1259	-55216	6		X						
	1318	-55225	6		X						
	1338	-55234	6		X						
	1353	-55237	6		X						
	1411	-55241	6		X						
	1478	-55242	6		X						
Total Number of Containers			64	Purchase Order / Statement of Work # <u>CLF-0477200</u>							

1) Released by: <u>Brandi Quinlich</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quinlich</u>	Company: <u>ARI</u>	Print name:	Company:
Signature: <u>[Signature]</u>		Signature:	
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/23/2020 15:45</u>	Date/Time: <u>6/23/2020 1545</u>	Date/Time:	Date/Time:

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To be completed by Laboratory upon sample receipt:

Date of receipt: <u>6/23/20</u>	Laboratory W.O. #: <u>1123301</u>
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

119 3304

Project/Client Name: Duwamish A064
 Project Number: 180067-02.02
 Contact Name: Amara Vandercort
 Sampled By: JH, KM

Ship to: ARI
 Attn: Amanda Volgardsen Shipping Date: 6/24/20
 Shipper: courier Airbill Number: NA
 Form filled out by: K. McPeck Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [jar tag number(s)]
					Archive						
06.24.20	0743	LOW20-SS311	6	Sediment	X						
	1009	-SS313	6		X						
	1025	-SS317	6		X						
	1301	-SS205	6		X						
	1319	-SS207	6		X						
	1340	-SS209	6		X						
	1359	-SS213	6		X						
	1419	-SS246	6		X						
Total Number of Containers			48	Purchase Order / Statement of Work # <u>CLF-042720a</u>							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: <u>Brandi Quinlisk</u>	<u>[Signature]</u>	Print name:	
Signature: <u>Brandi Quinlisk</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>Windward</u>		Company:	
Date/Time: <u>6/24/2020 16:23</u>	Date/Time: <u>6/24/2020 1623</u>	Date/Time:	Date/Time:

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Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3307

Project/Client Name: Duwamish Army
 Project Number: 180067-02.02
 Contact Name: Amanda Vindervort
 Sampled By: JH, KM

Ship to: ARI
 Attn: Amanda Vindervort Shipping Date: 6/25/20
 Shipper: Couner Airbill Number: NA
 Form filled out by: K. McPeck Turnaround requested: STL

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
06.25.20	1327	LDW20-SS128	6	Sediment	X						
	1344	-SS131	6	↓	X						
	1403	-SS132	6	↓	X						
 <div style="display: flex; justify-content: space-between; align-items: center;"> 6/25/20 6/25/20 </div> 											

Total Number of Containers _____ **Purchase Order / Statement of Work #** CLF-0427-70a

1) Released by: <u>A. Vindervort</u> Print name: <u>A. Vindervort</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/25/20 1650</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/25/20 1650</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Company: _____ Date/Time: _____
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Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3932

Project/Client Name: Dowanish Area
 Project Number: 180067-02.02
 Contact Name: Ameca Vandervort
 Sampled By: JH, KM

Ship to: ARI
 Attn: Amanda Valgardson
 Shipper: Connet
 Form filled out by: K. McPeak
 Shipping Date: 06-26-20
 Airbill Number: NA
 Turnaround requested: std.

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					circ	
06-26-20	1239	LDW20-55427	6	sediment	X						
↓	1301	↓ -55422	6	↓	X						
↓	1320	↓ -55420	6	↓	X						
↓	1350	↓ -55380	6	↓	X						
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5;"> K. McPeak 6/26/20 </div>											

Total Number of Containers **Purchase Order / Statement of Work #**

1) Released by: Print name: <u>Kate McPeak</u> Signature: <u>[Signature]</u> Company: <u>Windward</u> Date/Time: <u>6/26/20 1556</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/26/20 1556</u>	2) Released by: Print name: Signature: Company: Date/Time:	2) Rec'd by: Company: Date/Time:
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Date of receipt:	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3866

Project/Client Name: DUNHAMISH AOC
 Project Number: 180067-02-02
 Contact Name: A. VALDERUO
 Sampled By: WINDWARD

Ship to: ARI
 Attn: AMANDA JOHNSON
 Shipper: COURIER
 Form filled out by: TDO
 Shipping Date: _____
 Airbill Number: NA
 Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	ARCHIVE	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
6/29/20	0823	LDW20-SS 300	6	SEDIMENT	X							COOLER #1 ↓ COOLER #2 ↓ COOLER #3 ↓
6/29/20	0845	LDW20-SS 305	6	SEDIMENT	X							
6/29/20	0855	LDW20-SS 307	6	SEDIMENT	X							
6/29/20	0906	LDW20-SS 315	6	SEDIMENT	X							
6/29/20	0916	LDW20-SS 321	6	SEDIMENT	X							
6/29/20	0927	LDW20-SS 358	6	SEDIMENT	X							
6/29/20	0945	LDW20-SS 360	6	SEDIMENT	X							
6/29/20	0955	LDW20-SS 361	6	SEDIMENT	X							
6/29/20	1008	LDW20-SS 367	6	SEDIMENT	X							
6/29/20	1017	LDW20-SS 371	6	SEDIMENT	X							
6/29/20	1029	LDW20-SS 373	6	SEDIMENT	X							
6/29/20	1040	LDW20-SS 375	6	SEDIMENT	X							
Total Number of Containers			72	Purchase Order / Statement of Work # CLF-042920a								

1) Released by: <u>TAM TDO</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by: _____	2) Rec'd by: _____
Print name: <u>TAM TDO</u>	Company: <u>ARI</u>	Print name: _____	Company: _____
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature: _____	Company: _____
Date/Time: <u>06/29/20 1630</u>	Date/Time: <u>6/29/2020 1630</u>	Date/Time: _____	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: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3925

Project/Client Name: DULAMISH ADC4
 Project Number: 180067-02-62
 Contact Name: A. VANDERVOORT
 Sampled By: WINDWARD

Ship to: ARI
 Attn: AMANDA JOHNSON
 Shipper: COURIER
 Form filled out by: TDD
 Shipping Date: _____
 Airbill Number: NA
 Turnaround requested: STB

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
					ARCHIVE						
06/29/20	1108	LDW20-SS376	6	SEDIMENT	X						COOLER #3
6/29/20	1141	LDW20-SS379	6	SEDIMENT	X						↓
6/29/20	1338	LDW20-SS382	6	SEDIMENT	X						↓
6/29/20	1357	LDW20-SS384	6	SEDIMENT	X						COOLER #4
6/29/20	1402	LDW20-SS385	6	SEDIMENT	X						↓
6/29/20	1415	LDW20-SS386	6	SEDIMENT	X						↓
6/29/20	1427	LDW20-SS387	6	SEDIMENT	X						↓
6/29/20	1434	LDW20-SS391	6	SEDIMENT	X						↓
6/29/20	1451	LDW20-SS370	6	SEDIMENT	X						COOLER #5
6/29/20	1509	LDW20-SS316	6	SEDIMENT	X						↓
6/29/20	1518	LDW20-SS312	6	SEDIMENT	X						↓
6/29/20	1526	LDW20-SS303	6	SEDIMENT	X						↓
Total Number of Containers			72	Purchase Order / Statement of Work #							

1) Released by: <u>TDD</u> Print name: <u>TDD</u> Signature: <u>[Signature]</u> Company: <u>WINDWARD ENV</u> Date/Time: <u>06/29/20/1630</u>	1) Rec'd by: <u>[Signature]</u> Company: <u>ARI</u> Date/Time: <u>6/29/20-1630</u>	2) Released by: _____ Print name: _____ Signature: _____ Company: _____ Date/Time: _____	2) Rec'd by: _____ Company: _____ Date/Time: _____
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Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: _____	Received by: _____

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3953

Project/Client Name: DUWAMISH ADCA
 Project Number: 180067-02-02
 Contact Name: A VAUDERVOERT
 Sampled By: WINDWARD

Ship to: ARI
 Attn: AMANDA JOHANSON Shipping Date: USA
 Shipper: COURIER Airbill Number: N/A
 Form filled out by: TDO Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					ARCHIVE						
06/30/20	0713	LDW20-SS410	6	SEDIMENT	X						COOLER #1
06/30/20	0737	LDW20-SS414	6	SEDIMENT	X						
06/30/20	0746	LDW20-SS412	6	SEDIMENT	X						
06/30/20	0753	LDW20-SS408	6	SEDIMENT	X						
06/30/20	0800	LDW20-SS405	6	SEDIMENT	X						
06/30/20	0807	LDW20-SS403	6	SEDIMENT	X						COOLER #2
06/30/20	0813	LDW20-SS402	6	SEDIMENT	X						
06/30/20	0831	LDW20-SS314	6	SEDIMENT	X						
06/30/20	0839	LDW20-SS270	6	SEDIMENT	X						
06/30/20	0848	LDW20-SS267	6	SEDIMENT	X						
06/30/20	0901	LDW20-SS265	6	SEDIMENT	X						COOLER #3
06/30/20	0912	LDW20-SS262	6	SEDIMENT	X						
06/30/20		Total Number of Containers	72	Purchase Order / Statement of Work # CLF-042720a							

1) Released by: <u>DHA DO</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>DHA DO</u>		Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>WINDWARD ENV</u>		Company:	
Date/Time: <u>06.30.20 / 1615</u>	Date/Time: <u>06/30/20 1615</u>	Date/Time:	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:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3954

Project/Client Name: DUWAMISH AREA
 Project Number: 190067 02 02
 Contact Name: A VANDERVOORT
 Sampled By: WINDWARD

Ship to: ARI
 Attn: AMANDA JOHANSON
 Shipping Date: NA
 Shipper: COOLER
 Airbill Number: NA
 Form filled out by: TDD
 Turnaround requested: SD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					RECIPIE						
6/30/20	0921	LDW20-SS 254	6	SEDIMENT	X						COOLER #3
6/30/20	0933	LDW20-SS 260	6	SEDIMENT	X						↓
6/30/20	0942	LDW20-SS 259	6	SEDIMENT	X						↓
6/30/20	0951	LDW20-SS 256	6	SEDIMENT	X						COOLER #4
6/30/20	1004	LDW20-SS 249	6	SEDIMENT	X						↓
6/30/20	1017	LDW20-SS 239	6	SEDIMENT	X						↓
6/30/20	1030	LDW20-SS 233	6	SEDIMENT	X						↓
6/30/20	1115	LDW20-SS 229	6	SEDIMENT	X						↓
6/30/20	1123	LDW20-SS 227	6	SEDIMENT	X						COOLER #5
6/30/20	1133	LDW20-SS 221	6	SEDIMENT	X						↓
6/30/20	1148	LDW20-SS 201	6	SEDIMENT	X						↓
6/30/20	1157	LDW20-SS 163	6	SEDIMENT	X						↓
Total Number of Containers			72	Purchase Order / Statement of Work # CLF-042720a							

1) Released by: <u>TDD</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>TDD</u>		Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>WINDWARD ENV</u>		Company:	
Date/Time: <u>06.30.20 / 1615</u>	Date/Time: <u>6/30/20 1615</u>	Date/Time:	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:

3 of 3

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3955

Project/Client Name: Duwamish AOC4
 Project Number: 180067-02-02
 Contact Name: A. VANDERBOUT
 Sampled By: WINDWARD

Ship to: ARI
 Attn: AMANDA JOHNSON
 Shipper: COURIER
 Form filled out by: T DU
 Shipping Date: NA
 Airbill Number: NA
 Turnaround requested: STD

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	ARCHIVE	Test(s) Requested (check test(s) required)						Comments / Instructions (Jar tag number(s))
06/30/20	1206	LDW20-SS 157	6	SEDIMENT	X							COOLER #5
6/30/20	1217	LDW20-SS 153	6	SEDIMENT	X							COOLER #6
6/30/20	1230	LDW20-SS 149	6	SEDIMENT	X							
6/30/20	1249	LDW20-SS 152	6	SEDIMENT	X							
6/30/20	1308	LDW20-SS 147	6	SEDIMENT	X							
6/30/20	1317	LDW20-SS 145	6	SEDIMENT	X							
6/30/20	1333	LDW20-SS 143	6	SEDIMENT	X							COOLER #7
6/30/20	1347	LDW20-SS 141	6	SEDIMENT	X							COOLER #7
6/30/20	1355	LDW20-SS 138	6	SEDIMENT	X							
6/30/20	1407	LDW20-SS 137	6	SEDIMENT	X							
6/30/20	1418	LDW20-SS 134	6	SEDIMENT	X							
Total Number of Containers			66	Purchase Order / Statement of Work # CLF-0427206								
1) Released by: <u>T DU</u>		1) Rec'd by: <u>[Signature]</u>		2) Released by:		2) Rec'd by:						
Print name: <u>T DU</u>		Company: <u>ARI</u>		Print name:		Company:						
Signature: <u>[Signature]</u>		Date/Time: <u>06.30.20/1615</u>		Signature:		Date/Time:						
Company: <u>WINDWARD ENV</u>		Date/Time: <u>6/30/20 1615</u>		Company:		Date/Time:						

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Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

19 3933

Project/Client Name: Dunhamish AOC 4
 Project Number: 180067 - 02.02
 Contact Name: Amara Vandervoort
 Sampled By: AE, RM

Ship to: ARI
 Attn: Amanda Tolgordson Shipping Date: 6/30/19
 Shipper: Courier Airbill Number: NA
 Form filled out by: R. Mathonnet Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
6/30/20	0749	LDW 20-SS 100	6	sediment	X						
	0827	-SS103	6		X						
	0852	-SS104	6		X						
	0913	-SS107	6		X						
	0935	-SS108	6		X						
	1000	-SS110	6		X						
	1019	-SS111	6		X						
	1040	-SS112	6		X						
	1059	-SS114	6		X						
	1121	-SS115	6		X						
	1212	-SS116	6		X						
	1232	-SS118	6		X						
Total Number of Containers			72	Purchase Order / Statement of Work # CLF-042720a							

1) Released by: <u>TRM DO</u>	1) Rec'd by: <u>[Signature]</u>	2) Released by:	2) Rec'd by:
Print name: <u>TRM DO</u>		Print name:	
Signature: <u>[Signature]</u>	Company: <u>ARI</u>	Signature:	Company:
Company: <u>WINDWARD ENV</u>		Company:	
Date/Time: <u>06.30.20 / 1615</u>	Date/Time: <u>6/30/20 1615</u>	Date/Time:	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:

CHAIN-OF-CUSTODY/TEST REQUEST FORM

3318

Project/Client Name: Duwamish AOCY
 Project Number: 180067 -02.02
 Contact Name: Amara Vandervort
 Sampled By: AF, RM

Ship to: ARI
 Attn: Amanda Vulgarlsen Shipping Date: 6/30/20
 Shipper: courier Airbill Number: NA
 Form filled out by: R. Mathonet Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)						Comments / Instructions [Jar tag number(s)]
					Archive						
6/30/20	1251	LDW20-SS119	6	sediment	X						
	1313	-SS120	6		X						
	1335	-SS124	6		X						
	1353	-SS126	6		X						
	1410	-SS129	6		X						
Total Number of Containers			30	Purchase Order / Statement of Work # <u>CLF-042720a</u>							
1) Released by: <u>THAN DO</u>		1) Rec'd by: <u>[Signature]</u>		2) Released by:		2) Rec'd by:					
Print name: <u>THAN DO</u>		Company: <u>ARI</u>		Print name:		Company:					
Signature: <u>[Signature]</u>		Date/Time: <u>06.30.20 / 1615</u>		Date/Time: <u>6/30/20 1615</u>		Date/Time:					
Company: <u>WINDWARD EAN</u>				Company:		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: