

# 2013 Eastern Strait of Juan de Fuca Marine Sediment Monitoring



## Sediment Station Location Summary

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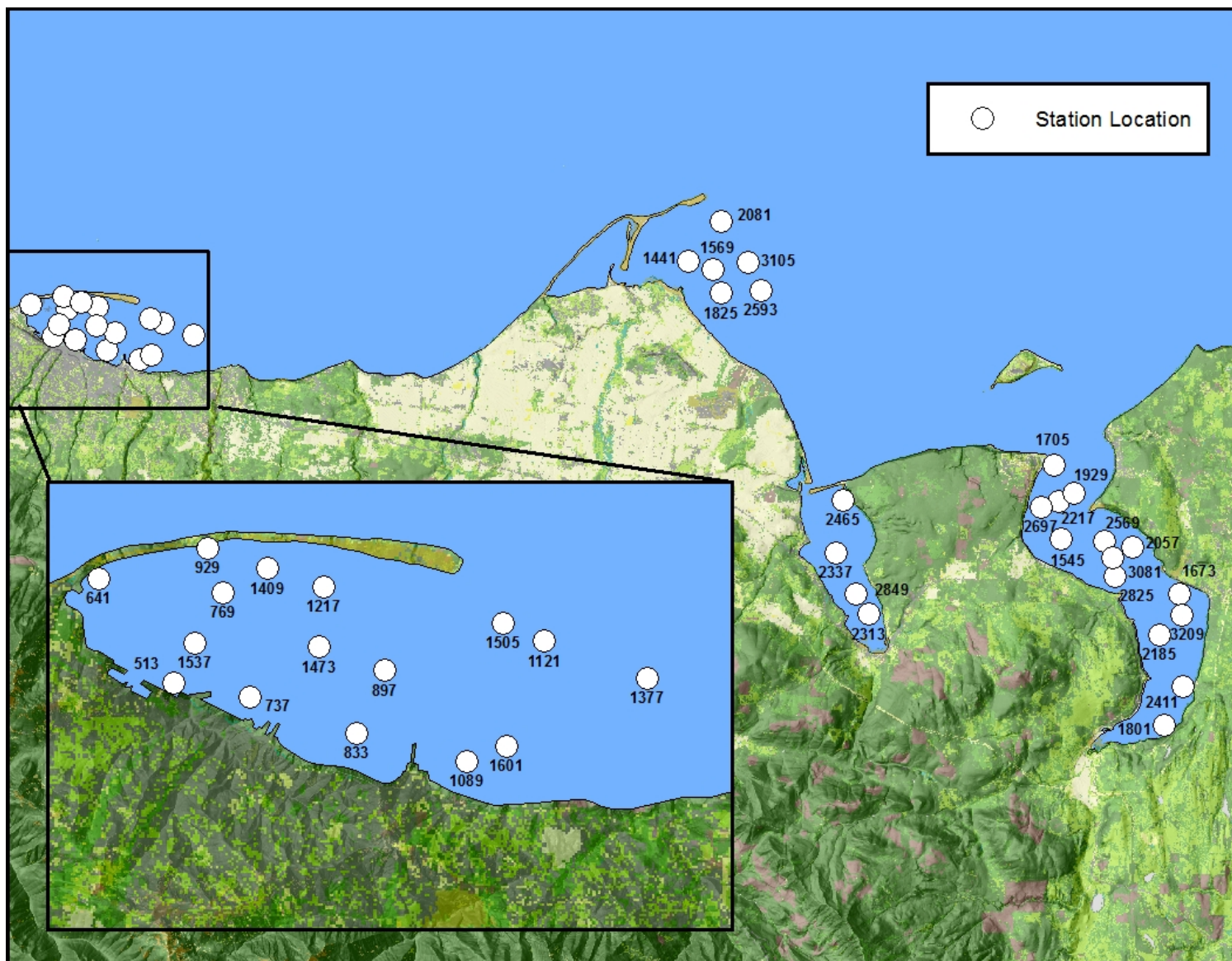
Station numbers, names, strata, and sample weights for the 2013 Eastern Strait of Juan de Fuca survey.

Station	Location	Stratum	Station weight (km <sup>2</sup> )
513	Southwest Port Angeles	Harbor	0.70
641	West Port Angeles	Harbor	0.70
737	Southwest Port Angeles	Harbor	0.70
769	Northwest Port Angeles	Urban	0.87
833	South Central Port Angeles	Harbor	0.70
897	Central Port Angeles	Urban	0.87
929	Northwest Port Angeles	Harbor	0.70
1089	South East Port Angeles	Urban	0.87
1121	East Central Port Angeles	Urban	0.87
1217	North Central Port Angeles	Urban	0.87
1377	East Central Port Angeles	Urban	0.87
1409	Northwest Port Angeles	Urban	0.87
1441	Dungeness Bay	Rural	2.28
1473	Central Port Angeles	Urban	0.87
1505	East Central Port Angeles	Urban	0.87
1537	East Central Port Angeles	Urban	0.87
1545	Northwest Discovery Bay	Rural	2.28
1569	Dungeness Bay	Rural	2.28
1601	South East Port Angeles	Urban	0.87
1673	East Central Discovery Bay	Rural	2.28
1705	Northeast Discovery Bay	Rural	2.28
1801	South Discovery Bay	Rural	2.28
1825	Dungeness Bay	Rural	2.28
1929	North Central Discovery Bay	Rural	2.28
2057	North East Discovery Bay	Rural	2.28
2081	Dungeness Bay	Rural	2.28
2185	South Central Discovery Bay	Rural	2.28
2217	North Central Discovery Bay	Rural	2.28
2313	Sequim Bay South	Rural	2.28
2337	Sequim Bay Central	Rural	2.28
2411	Southeast Discovery Bay	Rural	2.28
2465	Sequim Bay North	Rural	2.28
2569	North Central Discovery Bay	Rural	2.28
2593	Dungeness Bay	Rural	2.28

Station	Location	Stratum	Station weight (km <sup>2</sup> )
2697	Northeast Discovery Bay	Rural	2.28
2825	West Central Discovery Bay	Rural	2.28
2849	Sequim Bay South	Rural	2.28
3081	North Central Discovery Bay	Rural	2.28
3105	Dungeness Bay	Rural	2.28
3209	South Central Discovery Bay	Rural	2.28

Number of stations and area (km<sup>2</sup>) represented in each stratum for the 2013 Eastern Strait of Juan de Fuca survey.

Stratum	Number of successful stations	Area that was feasible to sample (km <sup>2</sup> )	Total area (km <sup>2</sup> )
Harbor	5	3.52	3.52
Rural	24	54.74	54.74
Urban	11	9.56	11.30
<b>Total</b>	<b>40</b>	<b>67.82</b>	<b>69.56</b>



Station locations for the 2013 Eastern Strait of Juan de Fuca survey.

Navigation report for the 2013 Eastern Strait of Juan de Fuca survey.

Station	Grab no.	Date	Station target NAD 1983 decimal minutes		Sample location NAD 1983 decimal minutes		GPS time	Distance to target (m)	Meter wheel depth (m)	Predicted tide (m): nearest station	Predicted mudline depth (m) (MLLW)	GPS status HDOP <2 good
			Latitude	Longitude	Latitude	Longitude						
<b>2313</b> , Sequim Bay, South	1	11-Jun-13	48 02.1996	123 00.4416	48 02.1993	123 00.4407	1402	1.2	12.9	0.13	-12.8	1.1
	2		48 02.1996	123 00.4416	48 02.1987	123 00.4408	1414	1.9	12.9	0.21	-12.7	0.9
	3		48 02.1996	123 00.4416	48 02.2000	123 00.4412	1423	0.9	13.0	0.27	-12.7	1.0
<b>2849</b> , Sequim Bay, South	1	11-Jun-13	48 02.6346	123 00.8736	48 02.6346	123 00.8728	1458	1.0	17.0	0.54	-16.5	1.1
	2		48 02.6346	123 00.8736	48 02.6347	123 00.8738	1507	0.3	17.0	0.62	-16.4	1.1
	3		48 02.6346	123 00.8736	48 02.6352	123 00.8725	1518	1.8	17.0	0.70	-16.3	1.1
<b>2337</b> , Sequim Bay, Central	1	11-Jun-13	48 03.4980	123 01.5492	48 03.4979	123 01.5482	1544	1.3	28.6	0.93	-27.7	1.2
	2		48 03.4980	123 01.5492	48 03.4975	123 01.5501	1556	1.5	28.6	1.04	-27.6	1.1
	3		48 03.4980	123 01.5492	48 03.4978	123 01.5485	1607	0.9	28.8	1.13	-27.7	1.0
<b>2465</b> , Sequim Bay, North	1	11-Jun-13	48 04.6194	123 01.3980	48 04.6196	123 01.3987	1639	0.9	25.4	1.43	-24.0	0.9
	2		48 04.6194	123 01.3980	48 04.6200	123 01.3985	1653	1.3	25.6	1.56	-24.0	0.9
	3		48 04.6194	123 01.3980	48 04.6202	123 01.3968	1704	2.1	25.6	1.65	-24.0	0.8
<b>2593</b> , Dungeness Bay	1	12-Jun-13	48 09.0600	123 04.2060	48 09.0597	123 04.2066	0951	0.9	19.9	0.43	-19.5	1.2
	2		48 09.0600	123 04.2060	48 09.0602	123 04.2038	0958	2.8	19.9	0.37	-19.5	1.2
	3		48 09.0600	123 04.2060	48 09.0606	123 04.2056	1009	1.2	19.8	0.30	-19.5	1.2
	4		48 09.0600	123 04.2060	48 09.0597	123 04.2058	1018	0.6	19.6	0.24	-19.4	1.6
<b>3105</b> , Dungeness Bay	1	12-Jun-13	48 09.6336	123 04.6554	48 09.6340	123 04.6563	1051	1.3	17.3	0.06	-17.2	1.3
	2		48 09.6336	123 04.6554	48 09.6338	123 04.6525	1108	3.6	17.0	-0.03	-17.0	1.2
	3		48 09.6336	123 04.6554	48 09.6335	123 04.6543	1117	1.4	17.0	-0.06	-17.1	1.0
	4		48 09.6336	123 04.6554	48 09.6337	123 04.6538	1127	2.0	17.0	-0.10	-17.1	1.0
	5		48 09.6336	123 04.6554	48 09.6335	123 04.6559	1149	0.6	17.0	-0.13	-17.1	1.1
<b>2081</b> , Dungeness Bay	1	12-Jun-13	48 10.5114	123 05.5614	48 10.5108	123 05.5606	1242	1.5	51.9	-0.16	-52.1	0.7
	2		48 10.5114	123 05.5614	48 10.5108	123 05.5617	1302	1.2	52.0	-0.12	-52.1	0.8
	3		48 10.5114	123 05.5614	48 10.5114	123 05.5615	1312	0.1	52.1	-0.09	-52.2	0.8
	4		48 10.5114	123 05.5614	48 10.5109	123 05.5606	1324	1.4	52.2	-0.05	-52.3	0.9
<b>1441</b> Dungeness Bay	1	12-Jun-13	48 09.6288	123 06.5658	48 09.6287	123 06.5650	1349	1.0	14.2	0.08	-14.1	1.2
	2		48 09.6288	123 06.5658	48 09.6287	123 06.5663	1358	0.6	14.1	0.12	-14.0	1.1
	3		48 09.6288	123 06.5658	48 09.6285	123 06.5657	1409	0.6	14.3	0.19	-14.1	0.9

Station	Grab no.	Date	Station target NAD 1983 decimal minutes		Sample location NAD 1983 decimal minutes		GPS time	Distance to target (m)	Meter wheel depth (m)	Predicted tide (m): nearest station	Predicted mudline depth (m) (MLLW)	GPS status HDOP <2 good
			Latitude	Longitude	Latitude	Longitude						
<b>1569,</b> Dungeness Bay	1	12-Jun-13	48 09.4752	123 05.7648	48 09.4743	123 05.7645	1434	1.7	11.9	0.35	-11.6	1.0
	2		48 09.4752	123 05.7648	48 09.4759	123 05.7649	1444	1.3	11.8	0.41	-11.4	1.0
	3		48 09.4752	123 05.7648	48 09.4751	123 05.7642	1459	0.8	12.0	0.50	-11.5	1.1
	4		48 09.4752	123 05.7648	48 09.4742	123 05.7636	1506	2.4	12.0	0.57	-11.4	1.1
<b>1825,</b> Dungeness Bay	1	12-Jun-13	48 08.9604	123 05.4954	48 08.9604	123 05.4960	1555	0.7	10.8	0.93	-9.9	1.1
	2		48 08.9604	123 05.4954	48 08.9607	123 05.4963	1603	1.2	10.6	1.00	-9.6	1.0
	3		48 08.9604	123 05.4954	48 08.9598	123 05.4954	1613	1.1	10.6	1.08	-9.5	0.9
	4		48 08.9604	123 05.4954	48 08.9602	123 05.4943	1630	1.4	10.6	1.21	-9.4	0.9
<b>1705,</b> Northeast Discovery Bay	1	13-Jun-13	48 05.5176	122 54.7068	48 05.5172	122 54.7063	1015	1.0	74.0	0.78	-73.2	1.4
	2		48 05.5176	122 54.7068	48 05.5185	122 54.7057	1030	2.2	74.0	0.62	-73.4	1.2
	3		48 05.5176	122 54.7068	48 05.5179	122 54.7071	1043	0.7	74.0	0.53	-73.5	1.3
	4		48 05.5176	122 54.7068	48 05.5178	122 54.7054	1058	1.8	74.0	0.44	-73.6	1.6
<b>2697,</b> Northeast Discovery Bay	1	13-Jun-13	48 04.6020	122 55.0506	48 04.6021	122 55.0502	1121	0.5	55.3	0.31	-55.0	1.1
	2		48 04.6020	122 55.0506	48 04.6017	122 55.0509	1132	0.7	55.2	0.26	-54.9	1.1
	3		48 04.6020	122 55.0506	48 04.6020	122 55.0504	1143	0.2	55.0	0.20	-54.8	1.1
	4		48 04.6020	122 55.0506	48 04.6016	122 55.0489	1155	2.2	55.0	0.15	-54.9	0.8
	5		48 04.6020	122 55.0506	48 04.6030	122 55.0505	1207	1.9	55.0	0.10	-54.9	0.8
<b>1801,</b> South Discovery Bay	1	13-Jun-13	48 00.0318	122 55.9214	48 00.0320	122 55.9225	1311	1.4	20.5	-0.04	-20.5	0.9
	2		48 00.0318	122 55.9214	48 00.0301	122 55.9238	1332	4.3	21.0	-0.03	-21.0	1.6
	3		48 00.0318	122 55.9214	48 00.0317	122 55.9195	1346	2.4	21.0	-0.01	-21.0	1.2
<b>2411,</b> Southeast Discovery Bay	1	13-Jun-13	48 00.8770	122 50.4546	48 00.8770	122 50.4546	1414	0.0	36.0	0.07	-35.9	1.0
	2		48 00.8770	122 50.4546	48 00.8766	122 50.4534	1426	1.7	36.0	0.12	-35.9	1.0
	3		48 00.8770	122 50.4546	48 00.8767	122 50.4539	1444	1.0	36.0	0.21	-35.8	1.0
<b>2185,</b> South Central Discovery Bay	1	13-Jun-13	48 01.9578	122 51.1824	48 01.9574	122 51.1816	1533	1.2	46.0	0.51	-45.5	1.2
	2		48 01.9578	122 51.1824	48 01.9578	122 51.1822	1546	0.2	46.0	0.60	-45.4	1.1
	3		48 01.9578	122 51.1824	48 01.9578	122 51.1817	1600	0.9	46.5	0.70	-45.8	1.0
	4		48 01.9578	122 51.1824	48 01.9575	122 51.1835	1616	1.5	47.0	0.83	-46.2	0.9
<b>3209</b> South Central Discovery Bay	1	13-Jun-13	48 02.3958	122 50.4654	48 02.3949	122 50.4663	1643	2.0	39.0	1.04	-38.0	0.8
	2		48 02.3958	122 50.4654	48 02.3957	122 50.4642	1700	1.5	39.0	1.17	-37.8	0.8
	3		48 02.3958	122 50.4654	48 02.3954	122 50.4655	1713	0.8	39.0	1.28	-37.7	0.9

Station	Grab no.	Date	Station target NAD 1983 decimal minutes		Sample location NAD 1983 decimal minutes		GPS time	Distance to target (m)	Meter wheel depth (m)	Predicted tide (m): nearest station	Predicted mudline depth (m) (MLLW)	GPS status HDOP <2 good
			Latitude	Longitude	Latitude	Longitude						
<b>2217,</b> North Central Discovery Bay	1	14-Jun-13	48 04.9146	122 54.0450	48 04.9139	122 54.0453	0913	1.3	58.0	1.33	-56.7	0.9
	2		48 04.9146	122 54.0450	48 04.9148	122 54.0448	0925	0.4	58.0	1.27	-56.7	0.9
	3		48 04.9146	122 54.0450	48 04.9147	122 54.0446	0936	0.5	58.0	1.22	-56.8	1.3
	4		48 04.9146	122 54.0450	48 04.9147	122 54.0453	1000	0.4	58.0	1.10	-56.9	1.2
<b>1673,</b> East Central Discovery Bay	1	14-Jun-13	48 02.8362	122 50.5824	48 02.8364	122 50.5819	1031	0.7	38.0	0.93	-37.1	1.2
	2		48 02.8362	122 50.5824	48 02.8367	122 50.5829	1043	1.1	38.0	0.86	-37.1	1.3
	3		48 02.8362	122 50.5824	48 02.8361	122 50.5828	1055	0.5	38.0	0.80	-37.2	1.6
<b>2825,</b> West Central Discovery Bay	1	14-Jun-13	48 03.1842	122 52.6572	48 03.1842	122 52.6574	1117	0.2	47.0	0.68	-46.3	1.1
	2		48 03.1842	122 52.6572	48 03.1835	122 52.6567	1129	1.4	47.0	0.61	-46.4	1.1
	3		48 03.1842	122 52.6572	48 03.1842	122 52.6578	1144	0.7	47.0	0.54	-46.5	0.8
<b>3081,</b> North Central Discovery Bay	1	14-Jun-13	48 03.5652	122 52.7328	48 03.5650	122 52.7322	1225	0.8	47.0	0.36	-46.6	0.7
	2		48 03.5652	122 52.7328	48 03.5645	122 52.7325	1237	1.3	47.0	0.32	-46.7	0.7
	3		48 03.5652	122 52.7328	48 03.5659	122 52.7321	1248	1.6	47.0	0.28	-46.7	0.8
<b>1929</b> North Central Discovery Bay	1	17-Jun-13	48 04.7412	122 54.4944	48 04.7411	122 54.4951	1058	0.9	58.3	1.39	-56.9	1.3
	2		48 04.7412	122 54.4944	48 04.7415	122 54.4945	1112	0.6	58.3	1.39	-56.9	1.1
	3		48 04.7412	122 54.4944	48 04.7409	122 54.4942	1125	0.6	58.2	1.39	-56.8	0.8
<b>2057,</b> North East Discovery Bay	1	17-Jun-13	48 03.8028	122 52.1166	48 03.8025	122 52.1152	1216	1.8	50.9	1.35	-49.6	0.7
	2		48 03.8028	122 52.1166	48 03.8030	122 52.1172	1231	0.8	50.8	1.34	-49.5	0.8
<b>2569,</b> North Central Discovery Bay	1	17-Jun-13	48 03.9222	122 53.0160	48 03.9215	122 53.0157	1404	1.3	48.9	1.19	-47.7	1.0
	2		48 03.9222	122 53.0160	48 03.9220	122 53.0156	1417	0.6	48.9	1.16	-47.7	1.0
	3		48 03.9222	122 53.0160	48 03.9220	122 53.0168	1434	1.1	48.8	1.14	-47.7	1.1
<b>1545,</b> Northwest Discovery Bay	1	17-Jun-13	48 03.9384	122 54.4044	48 03.9383	122 54.4040	1502	0.5	49.2	1.09	-48.1	1.1
	2		48 03.9384	122 54.4044	48 03.9385	122 54.4044	1518	0.2	49.6	1.07	-48.5	1.2
	3		48 03.9384	122 54.4044	48 03.9383	122 54.4045	1532	0.2	49.9	1.05	-48.9	1.1
<b>1089,</b> South East Port Angeles	1	18-Jun-13	48 07.1736	123 23.9675	48 07.1736	123 23.9675	0911	0.0	10.2	0.92	-9.3	1.1
	2		48 07.1736	123 23.9675	48 07.1740	123 23.9683	0919	1.2	10.0	0.95	-9.1	1.3
	3		48 07.1736	123 23.9675	48 07.1737	123 23.9669	0928	0.8	10.0	0.98	-9.0	1.1
	4		48 07.1736	123 23.9675	48 07.1739	123 23.9674	0937	0.6	10.1	1.02	-9.1	1.1
<b>1377,</b> East Central	1	18-Jun-13	48 07.6914	123 22.2882	48 07.6921	123 22.2886	1044	1.4	21.2	1.23	-20.0	1.2
	2		48 07.6914	123 22.2882	48 07.6913	123 22.2876	1053	0.8	21.2	1.25	-20.0	1.3



Station	Grab no.	Date	Station target NAD 1983 decimal minutes		Sample location NAD 1983 decimal minutes		GPS time	Distance to target (m)	Meter wheel depth (m)	Predicted tide (m): nearest station	Predicted mudline depth (m) (MLLW)	GPS status HDOP <2 good
			Latitude	Longitude	Latitude	Longitude						
Port Angeles	3		48 07.6914	123 22.2882	48 07.6930	123 22.2876	1103	3.1	21.2	1.27	-19.9	1.2
<b>1601,</b> South East Port Angeles	1	18-Jun-13	48 07.3326	123 23.6418	48 07.3326	123 23.6418	1155	0.0	15.2	1.33	-13.9	0.8
	2		48 07.3326	123 23.6418	48 07.3319	123 23.6429	1208	1.9	15.1	1.33	-13.8	0.7
	3		48 07.3326	123 23.6418	48 07.3321	123 23.6421	1220	1.0	15.0	1.34	-13.7	0.7
	4		48 07.3326	123 23.6418	48 07.3329	123 23.6422	1226	0.7	15.3	1.34	-14.0	0.8
	5		48 07.3326	123 23.6418	48 07.3330	123 23.6408	1234	1.4	15.2	1.34	-13.9	0.8
<b>1121,</b> East Central Port Angeles	1	18-Jun-13	48 07.9026	123 23.2860	48 07.9026	123 23.2853	1329	0.9	29.5	1.32	-28.2	1.4
	2		48 07.9026	123 23.2860	48 07.9022	123 23.2849	1340	1.6	29.2	1.32	-27.9	0.9
	3		48 07.9026	123 23.2860	48 07.9028	123 23.2864	1354	0.6	29.5	1.31	-28.2	1.0
<b>1505,</b> East Central Port Angeles	1	18-Jun-13	48 08.0070	123 23.6730	48 08.0068	123 23.6735	1421	0.7	34.7	1.30	-33.4	1.0
	2		48 08.0070	123 23.6730	48 08.0076	123 23.6718	1430	1.9	34.8	1.29	-33.5	1.1
	3		48 08.0070	123 23.6730	48 08.0069	123 23.6720	1441	1.3	34.5	1.29	-33.2	1.1
<b>1537,</b> East Central Port Angeles	1	18-Jun-13	48 07.8072	123 26.5944	48 07.8065	123 26.5939	1524	1.4	22.9	1.12	-21.8	0.9
	2		48 07.8072	123 26.5944	48 07.8065	123 26.5936	1538	1.6	23.0	1.11	-21.9	1.0
	3		48 07.8072	123 26.5944	48 07.8069	123 26.5930	1547	1.8	23.0	1.09	-21.9	0.9
	4		48 07.8072	123 26.5944	48 07.8065	123 26.5937	1557	1.6	22.8	1.08	-21.7	0.9
<b>833,</b> South Central Port Angeles	1	19-Jun-13	48 07.3307	123 25.0272	48 07.3307	123 25.0272	0851	0.0	10.0	0.50	-9.5	0.9
	2		48 07.3307	123 25.0272	48 07.3309	123 25.0274	0901	0.4	10.0	0.56	-9.4	0.9
	3		48 07.3307	123 25.0272	48 07.3311	123 25.0281	0913	1.3	10.0	0.62	-9.4	1.3
	4		48 07.3307	123 25.0272	48 07.3310	123 25.0256	0923	2.1	10.1	0.67	-9.4	1.1
<b>897,</b> Central Port Angeles	1	19-Jun-13	48 07.6800	123 24.7884	48 07.6795	123 24.7886	0953	1.0	21.0	0.80	-20.2	1.1
	2		48 07.6800	123 24.7884	48 07.6801	123 24.7892	1005	1.0	21.0	0.86	-20.1	1.2
	3		48 07.6800	123 24.7884	48 07.6796	123 24.7876	1021	1.2	21.0	0.94	-20.1	1.3
<b>1473,</b> Central Port Angeles	1	19-Jun-13	48 07.8126	123 25.4166	48 07.8130	123 25.4166	1119	0.7	25.7	1.23	-24.5	0.8
	2		48 07.8126	123 25.4166	48 07.8127	123 25.4163	1132	0.4	25.8	1.29	-24.5	0.8
	3		48 07.8126	123 25.4166	48 07.8131	123 25.4159	1143	1.3	25.8	1.33	-24.5	0.8
	4		48 07.8126	123 25.4166	48 07.8129	123 25.4173	1154	1.0	25.6	1.37	-24.2	0.8
<b>1217,</b> North Central Port Angeles	1	19-Jun-13	48 08.1948	123 25.3902	48 08.1944	123 25.3900	1327	0.8	51.3	1.55	-49.8	0.9
	2		48 08.1948	123 25.3902	48 08.1944	123 25.3895	1339	1.1	51.1	1.56	-49.5	0.9
	3		48 08.1948	123 25.3902	48 08.1952	123 25.3886	1353	2.1	51.2	1.56	-49.6	1.0

Station	Grab no.	Date	Station target NAD 1983 decimal minutes		Sample location NAD 1983 decimal minutes		GPS time	Distance to target (m)	Meter wheel depth (m)	Predicted tide (m): nearest station	Predicted mudline depth (m) (MLLW)	GPS status HDOP <2 good
			Latitude	Longitude	Latitude	Longitude						
<b>1409,</b> Northwest Port Angeles	1	19-Jun-13	48 08.2992	123 25.9338	48 08.2993	123 25.9337	1420	0.2	55.3	1.55	-53.8	1.0
	2		48 08.2992	123 25.9338	48 08.2992	123 25.9339	1442	0.1	55.1	1.55	-53.6	1.1
	3		48 08.2992	123 25.9338	48 08.2996	123 25.9333	1502	1.0	55.0	1.54	-53.5	1.1
<b>737,</b> Southwest Port Angeles	1	19-Jun-13	48 07.4826	123 26.0490	48 07.4830	123 26.0491	1623	0.8	14.2	1.34	-12.9	0.8
	2		48 07.4826	123 26.0490	48 07.4819	123 26.0484	1635	1.5	14.2	1.31	-12.9	0.9
	3		48 07.4826	123 26.0490	48 07.4826	123 26.0490	1648	0.0	14.3	1.29	-13.0	1.0
	4		48 07.4826	123 26.0490	48 07.4832	123 26.0491	1700	1.1	14.2	1.28	-12.9	1.3
<b>769,</b> Northwest Port Angeles	1	20-Jun-13	48 08.1336	123 26.3502	48 08.1333	123 26.3488	0940	1.8	37.6	0.39	-37.2	1.3
	2		48 08.1336	123 26.3502	48 08.1330	123 26.3484	0954	2.5	37.8	0.48	-37.3	1.3
	3		48 08.1336	123 26.3502	48 08.1325	123 26.3495	1004	2.2	38.0	0.55	-37.5	1.2
<b>929,</b> Northwest Port Angeles	1	20-Jun-13	48 08.3565	123 26.4762	48 08.3565	123 26.4762	1029	0.0	45.1	0.73	-44.4	1.2
	2		48 08.3565	123 26.4762	48 08.3561	123 26.4761	1039	0.8	45.2	0.78	-44.4	1.2
	3		48 08.3565	123 26.4762	48 08.3567	123 26.4752	1051	1.3	45.3	0.87	-44.4	1.0
<b>641,</b> West Port Angeles	1	20-Jun-13	48 08.1832	123 27.6083	48 08.1832	123 27.6083	1258	0.0	15.0	1.64	-13.4	0.9
	2		48 08.1832	123 27.6083	48 08.1832	123 27.6087	1311	0.5	15.0	1.67	-13.3	0.9
	3		48 08.1832	123 27.6083	48 08.1835	123 27.6084	1320	0.6	14.8	1.71	-13.1	1.2
<b>513,</b> Southwest Port Angeles	1	20-Jun-13	48 07.5534	123 26.7798	48 07.5539	123 26.7795	1341	1.0	13.9	1.76	-12.1	1.1
	2		48 07.5534	123 26.7798	48 07.5536	123 26.7798	1351	0.4	13.9	1.78	-12.1	1.0
	3		48 07.5534	123 26.7798	48 07.5539	123 26.7776	1403	2.9	13.9	1.80	-12.1	1.0