

Impact Water Quality Monitoring for Dredging Activities at ESC CMP Vd

Sampling Date	Tide	Station	Time	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temp (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	SS (mg/L)
2015/11/11	ME	MW1	0.489294	B	19.2	22.4	0.04	26.37	30.57	84.9	5.76	7.2	7.81	11
2015/11/11	ME	MW1	0.489838	M	10.6	209.4	0.12	26.36	30.56	84	5.7	6.6	7.83	10
2015/11/11	ME	MW1	0.490428	T	1	50.4	0.49	26.41	30.36	84.5	5.73	5.4	7.85	10
2015/11/11	ME	MW1	0.491019	B	19.1	326.9	0.13	26.36	30.56	83.1	5.64	6.6	7.86	11
2015/11/11	ME	MW1	0.491678	M	10.5	356.9	0.36	26.36	30.55	83.2	5.65	6.5	7.87	10
2015/11/11	ME	MW1	0.492396	T	1	75.2	0.77	26.41	30.33	84.2	5.72	5	7.88	10
2015/11/11	ME	US1	0.537847	B	7.5	112.2	0.49	26.44	29.01	87.1	5.96	18	7.92	36
2015/11/11	ME	US1	0.538368	M	5	125.6	0.83	26.43	28.93	87.4	5.98	13.2	7.93	19
2015/11/11	ME	US1	0.538773	T	1.2	121.7	0.71	26.4	28.72	90.1	6.18	6	7.94	8
2015/11/11	ME	US1	0.539294	B	8.2	129.1	0.58	26.44	28.97	87.3	5.97	17	7.93	38
2015/11/11	ME	US1	0.539861	M	5.1	129.3	0.75	26.4	28.72	88.4	6.06	8.2	7.94	18
2015/11/11	ME	US1	0.540359	T	1.1	156.1	0.63	26.37	28.56	90.9	6.24	5.1	7.94	8
2015/11/11	ME	US2	0.543299	B	8	88.6	0.65	26.42	28.87	90.1	6.17	13.2	7.92	17
2015/11/11	ME	US2	0.543843	M	5.3	70.4	0.71	26.4	28.73	88.4	6.06	10.2	7.93	14
2015/11/11	ME	US2	0.544421	T	1	149	0.39	26.35	28.33	91.7	6.3	5.1	7.94	13
2015/11/11	ME	US2	0.545	B	7.9	84.9	0.53	26.42	28.84	87.6	6	15.5	7.93	17
2015/11/11	ME	US2	0.545301	M	4.8	112.3	0.75	26.38	28.61	88.8	6.09	10	7.94	14
2015/11/11	ME	US2	0.545741	T	1.1	133.1	0.98	26.35	28.44	90	6.18	7.7	7.94	13
2015/11/11	ME	DS1	0.549815	B	7.1	103	0.88	26.43	28.91	89.3	6.11	12.5	7.92	13
2015/11/11	ME	DS1	0.550255	M	4.2	74.9	0.77	26.4	28.7	88.9	6.09	7.6	7.93	16
2015/11/11	ME	DS1	0.550752	T	0.7	67.3	0.77	26.38	28.47	91.9	6.31	4.6	7.94	16
2015/11/11	ME	DS1	0.551123	B	6.9	116	0.64	26.43	28.88	88.3	6.04	11.5	7.92	13
2015/11/11	ME	DS1	0.551551	M	4.1	119.9	0.84	26.39	28.65	88.8	6.09	7.1	7.94	15
2015/11/11	ME	DS1	0.551863	T	1	101.8	0.45	26.37	28.49	91	6.25	4.8	7.94	15
2015/11/11	ME	DS2	0.555081	B	6.9	103.7	0.55	26.45	29.11	91.4	6.24	12.5	7.9	18
2015/11/11	ME	DS2	0.555359	M	4.7	82.1	0.28	26.45	28.78	90.2	6.17	7.7	7.92	10
2015/11/11	ME	DS2	0.555729	T	1.1	52.6	0.5	26.43	28.74	91.4	6.26	4.9	7.93	7
2015/11/11	ME	DS2	0.556088	B	7.2	107.1	0.39	26.45	29.04	89	6.08	11.5	7.91	18
2015/11/11	ME	DS2	0.556366	M	4.4	35.1	0.38	26.44	28.79	89	6.09	8.2	7.92	10
2015/11/11	ME	DS2	0.55669	T	0.9	105.1	0.4	26.41	28.67	91.1	6.24	6.9	7.93	8
2015/11/11	ME	DS3	0.55934	B	6.2	89	0.6	26.43	28.74	94.6	6.48	8.5	7.91	14
2015/11/11	ME	DS3	0.559653	M	4.1	72.9	0.31	26.42	28.47	92.1	6.32	5.4	7.92	8
2015/11/11	ME	DS3	0.560035	T	1.1	114.1	0.37	26.41	28.29	93.2	6.4	3.8	7.92	6
2015/11/11	ME	DS3	0.561123	B	5.9	24	0.26	26.43	28.75	93	6.37	13	7.92	16
2015/11/11	ME	DS3	0.561424	M	3.9	49	0.34	26.41	28.28	92.4	6.34	5.9	7.92	8
2015/11/11	ME	DS3	0.561806	T	1	231.4	0.16	26.41	28.25	93.5	6.42	3.6	7.93	6
2015/11/11	ME	DS4	0.565174	B	7.1	158.3	0.18	26.4	28.78	89.1	6.1	15	7.91	35
2015/11/11	ME	DS4	0.566053	M	4.5	131.5	0.43	26.41	28.54	91.6	6.28	5.7	7.92	8
2015/11/11	ME	DS4	0.566736	T	1.1	144.1	0.29	26.48	28.19	93.6	6.42	3.3	7.93	5
2015/11/11	ME	DS4	0.567188	B	6.9	98.7	0.59	26.41	28.72	89.8	6.15	12	7.92	35
2015/11/11	ME	DS4	0.56772	M	4.5	121.8	0.43	26.45	28.26	92.6	6.35	4.3	7.93	8
2015/11/11	ME	DS4	0.568275	T	1	151.8	0.42	26.49	28.19	93.7	6.43	3.3	7.93	5
2015/11/11	ME	DS5	0.572141	B	9.3	99.4	0.5	26.39	28.85	92.1	6.31	11.6	7.91	15
2015/11/11	ME	DS5	0.572465	M	5.5	137.9	0.32	26.39	28.78	89.5	6.13	11.5	7.91	17
2015/11/11	ME	DS5	0.572824	T	0.8	94.5	0.33	26.43	28.48	91.4	6.27	5.4	7.92	10
2015/11/11	ME	DS5	0.573183	B	9.2	88.4	0.28	26.4	28.84	89.4	6.12	13.1	7.91	15
2015/11/11	ME	DS5	0.573461	M	5.1	79.1	0.55	26.4	28.72	88.8	6.08	10.9	7.92	17
2015/11/11	ME	DS5	0.573808	T	1	155.2	0.41	26.44	28.46	91.1	6.25	5.4	7.93	11
2015/11/11	MF	DS1	0.707315	B	8	306.2	0.74	26.36	28.62	92.1	6.32	12.1	7.82	31
2015/11/11	MF	DS1	0.707813	M	4.8	250	0.65	26.41	28.23	90.8	6.24	7.4	7.82	10
2015/11/11	MF	DS1	0.708333	T	1	273.2	0.56	26.41	28.13	91	6.26	5.6	7.82	8
2015/11/11	MF	DS1	0.708877	B	8	307.7	0.59	26.34	28.74	89.9	6.17	15	7.83	30
2015/11/11	MF	DS1	0.709375	M	4.7	258.3	0.74	26.41	28.27	90.4	6.21	8	7.82	10
2015/11/11	MF	DS1	0.709907	T	1.2	304.1	0.81	26.42	28.11	90.7	6.23	4.7	7.82	8
2015/11/11	MF	DS2	0.712963	B	7.8	246.3	0.36	26.36	28.62	92	6.31	11.5	7.82	14
2015/11/11	MF	DS2	0.713472	M	4.8	296.2	0.49	26.37	28.5	90.4	6.2	8.8	7.83	9
2015/11/11	MF	DS2	0.713924	T	1	273.1	0.63	26.41	28.15	90.7	6.23	4.9	7.83	9
2015/11/11	MF	DS2	0.714456	B	7.9	244.1	0.71	26.36	28.59	89.4	6.13	11.8	7.83	13

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2015/11/11	MF	DS2	0.714965	M	5.2	272.4	0.71	26.36	28.58	89.8	6.16	10.6	7.84	10
2015/11/11	MF	DS2	0.715602	T	1.1	241	0.64	26.4	28.16	90.6	6.23	5.4	7.83	9
2015/11/11	MF	DS3	0.719294	B	21.1	67.9	0.25	26.35	28.5	90.2	6.2	11.9	7.84	12
2015/11/11	MF	DS3	0.720417	M	11.3	274.3	0.21	26.39	28.35	89.6	6.16	8.9	7.84	15
2015/11/11	MF	DS3	0.721157	T	1	269.1	0.81	26.38	28.29	89.8	6.17	9.5	7.84	11
2015/11/11	MF	DS3	0.723623	B	20.9	274.9	0.47	26.35	28.48	89.9	6.17	9.9	7.84	13
2015/11/11	MF	DS3	0.724248	M	11.6	214	0.37	26.38	28.38	89.8	6.17	9.7	7.84	15
2015/11/11	MF	DS3	0.724815	T	0.7	272.9	0.61	26.38	28.2	90.6	6.23	6.3	7.84	12
2015/11/11	MF	DS4	0.728194	B	10.1	293.4	0.66	26.36	28.39	91.8	6.31	13.1	7.84	37
2015/11/11	MF	DS4	0.728715	M	5.9	294.7	0.5	26.4	28.3	89.6	6.15	8.4	7.84	10
2015/11/11	MF	DS4	0.729178	T	1.1	272.4	0.31	26.4	28.24	89.8	6.17	5.6	7.84	8
2015/11/11	MF	DS4	0.729699	B	10	314.5	0.23	26.39	28.33	89.3	6.13	14.9	7.84	36
2015/11/11	MF	DS4	0.730208	M	5.9	294.4	0.36	26.39	28.32	89.4	6.14	8.7	7.84	9
2015/11/11	MF	DS4	0.730729	T	1	285.9	0.71	26.38	28.31	89.7	6.16	7.9	7.85	8
2015/11/11	MF	DS5	0.734225	B	11	298.5	0.42	26.41	28.28	90	6.18	11.8	7.84	14
2015/11/11	MF	DS5	0.734803	M	6.3	281.5	0.54	26.39	28.29	89.7	6.16	10	7.84	27
2015/11/11	MF	DS5	0.735498	T	1.1	280.9	0.66	26.39	28.01	91.3	6.28	4.1	7.84	13
2015/11/11	MF	DS5	0.736123	B	10.9	307.5	0.26	26.39	28.3	89.3	6.13	14.2	7.85	13
2015/11/11	MF	DS5	0.736655	M	6.3	295.9	0.68	26.39	28.31	89.3	6.14	11.1	7.85	27
2015/11/11	MF	DS5	0.737164	T	1	39.9	0.37	26.38	28.08	90.6	6.23	5.1	7.85	12
2015/11/11	MF	US1	0.747766	B	8.9	291.3	0.21	26.5	28.49	92.7	6.35	9.1	7.84	10
2015/11/11	MF	US1	0.748333	M	5.5	228.7	0.54	26.51	28.47	92.1	6.31	7.6	7.84	13
2015/11/11	MF	US1	0.74897	T	1	262.4	0.33	26.49	28.45	92.4	6.33	5.2	7.84	10
2015/11/11	MF	US1	0.749549	B	8.8	255	0.44	26.52	28.51	91.7	6.27	9	7.84	10
2015/11/11	MF	US1	0.75	M	5.5	266.7	0.56	26.52	28.52	91.8	6.28	7.7	7.84	13
2015/11/11	MF	US1	0.750451	T	1.1	260.7	0.86	26.48	28.46	92.1	6.31	5.7	7.85	10
2015/11/11	MF	US2	0.753669	B	7	254.5	0.31	26.49	28.65	92.1	6.31	21.8	7.83	20
2015/11/11	MF	US2	0.754201	M	4.4	248	0.71	26.49	28.65	90.5	6.2	18.6	7.83	15
2015/11/11	MF	US2	0.754803	T	1.1	245	0.77	26.48	28.6	90.9	6.23	15.9	7.84	17
2015/11/11	MF	US2	0.756701	B	6.9	259.2	0.81	26.48	28.69	90.5	6.19	30.5	7.84	19
2015/11/11	MF	US2	0.757188	M	4.5	242.2	0.84	26.48	28.68	90.8	6.22	24.7	7.84	15
2015/11/11	MF	US2	0.757616	T	1	218.9	0.43	26.46	28.55	91.4	6.26	13.5	7.85	18
2015/11/11	MF	US2	0.758958	B	7	216.4	0.74	26.46	28.73	93.1	6.37	27.5	7.84	0
2015/11/11	MF	US2	0.759317	M	4.2	301.3	0.62	26.46	28.73	91.6	6.27	26	7.84	0
2015/11/11	MF	US2	0.759815	T	0.9	232.1	0.85	26.45	28.43	91.6	6.28	19	7.84	0
2015/11/11	MF	MW1	0.799132	B	18.9	86.7	0.34	26.41	30.62	84.4	5.72	14.7	7.84	15
2015/11/11	MF	MW1	0.799711	M	10.5	194.1	0.21	26.41	30.57	83.6	5.67	11.5	7.83	10
2015/11/11	MF	MW1	0.800255	T	0.9	309.7	0.27	26.4	30.21	84.8	5.76	5.2	7.83	5