

## 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)
2015/11/20	ME	MW1	0.249896	B	19.2	340.2	0.13	25.83	31.95	83.95	5.7	4.73	7.8	6.70
2015/11/20	ME	MW1	0.250475	M	10.5	301.5	0.2	25.98	29.1	82.55	5.68	3.03	7.78	3.20
2015/11/20	ME	MW1	0.251042	T	1.2	51.5	0.56	26.1	24.66	85.65	6.04	2.03	7.76	2.50
2015/11/20	ME	MW1	0.251667	B	19.2	52.6	0.29	25.83	32.12	81.95	5.56	4.73	7.78	6.80
2015/11/20	ME	MW1	0.252211	M	10.9	87.5	0.36	25.98	29.75	81.95	5.62	2.63	7.77	3.30
2015/11/20	ME	MW1	0.252813	T	1.1	53.5	0.35	26.09	24.72	85.44	6.02	2.03	7.75	2.60
2015/11/20	ME	US1	0.2961	B	8.7	94.1	0.57	25.84	27.12	82.6	5.77	8.33	7.84	5.90
2015/11/20	ME	US1	0.296609	M	5.5	138.7	0.5	25.93	25.07	81.31	5.73	4.03	7.83	4.20
2015/11/20	ME	US1	0.297083	T	1	127.1	0.23	25.72	23.24	85.29	6.1	2.73	7.81	3.30
2015/11/20	ME	US1	0.297593	B	8.8	104.6	0.52	25.89	26.18	81.3	5.7	4.73	7.81	6.10
2015/11/20	ME	US1	0.298148	M	5.5	61	0.59	26.01	23.94	83.5	5.92	2.63	7.8	4.30
2015/11/20	ME	US1	0.298634	T	1	293.3	0.11	25.74	23.33	85.59	6.11	2.53	7.8	3.40
2015/11/20	ME	US2	0.301725	B	7	109.8	0.47	25.85	27.82	83.28	5.79	7.13	7.82	7.70
2015/11/20	ME	US2	0.302199	M	4.7	77.1	0.3	25.88	26.42	81.19	5.69	5.63	7.83	4.80
2015/11/20	ME	US2	0.302755	T	1	82.6	0.61	25.72	22.13	87.57	6.3	2.43	7.81	3.10
2015/11/20	ME	US2	0.303299	B	6.9	121.2	0.35	25.88	27.91	79.09	5.49	5.93	7.81	7.20
2015/11/20	ME	US2	0.303796	M	4.4	110.1	0.62	25.87	26.58	79.69	5.58	6.43	7.84	4.60
2015/11/20	ME	US2	0.304225	T	1.1	123.3	0.72	25.72	19.82	85.37	6.22	2.73	7.83	3.00
2015/11/20	ME	DS1	0.309028	B	8.1	56.8	0.24	25.85	27.68	81.76	5.69	9.83	7.83	10.60
2015/11/20	ME	DS1	0.309734	M	5	96.5	0.72	25.88	26.2	84.35	5.91	3.83	7.81	4.50
2015/11/20	ME	DS1	0.310301	T	1.2	119.1	0.87	25.82	23.22	87.05	6.21	2.43	7.81	3.50
2015/11/20	ME	DS1	0.311238	B	7.9	75.9	0.16	25.86	27.87	78.77	5.47	8.53	7.83	11.10
2015/11/20	ME	DS1	0.311736	M	4.8	104.6	0.82	25.91	25.48	80.86	5.69	4.83	7.84	4.60
2015/11/20	ME	DS1	0.312292	T	1	112.7	0.56	25.72	20.99	87.64	6.35	2.23	7.82	3.20
2015/11/20	ME	DS2	0.315787	B	6.7	91.8	0.38	25.9	26	84.63	5.94	5.83	7.82	9.00
2015/11/20	ME	DS2	0.316146	M	4.5	107.4	0.77	25.95	24.95	83.14	5.86	3.53	7.83	3.50
2015/11/20	ME	DS2	0.316771	T	1.1	92.5	0.86	25.71	23.81	85.33	6.08	2.73	7.82	3.10
2015/11/20	ME	DS2	0.317373	B	7.1	67	0.45	25.88	26.32	81.74	5.73	7.03	7.84	8.30
2015/11/20	ME	DS2	0.317882	M	4.5	100.7	0.67	25.88	24.1	83.63	5.93	3.03	7.82	3.50
2015/11/20	ME	DS2	0.318414	T	0.9	86.7	0.47	25.7	23.65	85.72	6.12	2.63	7.82	3.20
2015/11/20	ME	DS3	0.322095	B	6.1	76.3	0.62	25.79	26.67	84.11	5.89	11.53	7.84	15.70
2015/11/20	ME	DS3	0.322558	M	3.9	76.9	0.88	25.76	24.7	83.22	5.9	3.93	7.83	4.70
2015/11/20	ME	DS3	0.323125	T	1.1	50.9	0.25	25.71	23.99	84.71	6.03	2.83	7.82	3.60
2015/11/20	ME	DS3	0.323704	B	5.9	12.6	0.16	25.79	26.7	81.02	5.67	13.23	7.84	14.70
2015/11/20	ME	DS3	0.324306	M	4	83.1	0.54	25.76	24.77	82.61	5.85	3.83	7.82	4.80
2015/11/20	ME	DS3	0.324815	T	1.2	85.4	0.49	25.72	24.2	84.11	5.98	2.83	7.82	3.50
2015/11/20	ME	DS4	0.327951	B	3.9	82.1	0.54	25.73	25.44	88.98	6.28	5.53	7.83	4.40
2015/11/20	ME	DS4	0.328519	M	3.1	95.9	0.57	25.72	24.44	84.09	5.97	3.23	7.83	4.00
2015/11/20	ME	DS4	0.329097	T	0.9	111.2	0.27	25.66	24.11	85.19	6.07	2.63	7.82	2.90
2015/11/20	ME	DS4	0.32963	B	4	73.8	0.2	25.73	25.49	82.5	5.82	4.93	7.83	4.20
2015/11/20	ME	DS4	0.329954	M	3.2	86.9	0.58	25.72	24.9	82.49	5.84	4.13	7.83	4.10
2015/11/20	ME	DS4	0.330532	T	1	150.2	0.56	25.62	23.96	85.28	6.08	2.53	7.83	2.90
2015/11/20	ME	DS5	0.33338	B	3.8	91.2	0.1	25.75	25.05	88.96	6.29	4.23	7.84	5.00
2015/11/20	ME	DS5	0.333727	M	2.9	140.7	0.27	25.74	24.96	84.87	6.01	3.93	7.84	5.70
2015/11/20	ME	DS5	0.334039	T	0.9	60.3	0.56	25.73	24.87	84.87	6.01	3.93	7.83	4.20
2015/11/20	ME	DS5	0.334572	B	4.1	5.6	0.33	25.75	25.03	82.68	5.85	4.33	7.82	5.00
2015/11/20	ME	DS5	0.334896	M	3.2	7.1	0.53	25.75	25.08	82.28	5.82	4.43	7.82	5.70
2015/11/20	ME	DS5	0.335417	T	0.9	20.7	0.47	25.71	24.66	83.17	5.9	3.33	7.82	4.30
2015/11/20	MF	DS1	0.556736	B	9	233.7	0.41	25.9	28.23	79.01	5.48	9.03	7.8	9.70
2015/11/20	MF	DS1	0.557211	M	5.5	244.4	0.2	25.88	26.87	79.61	5.56	6.83	7.8	4.80
2015/11/20	MF	DS1	0.558044	T	1.2	332.2	0.25	26.22	22.45	82.22	5.85	3.63	7.75	3.60
2015/11/20	MF	DS1	0.558576	B	9.2	242.3	0.56	25.9	28.3	78.52	5.44	8.13	7.79	9.10
2015/11/20	MF	DS1	0.559074	M	5.5	277.5	0.81	25.88	27.15	79.22	5.52	7.13	7.8	4.60
2015/11/20	MF	DS1	0.559722	T	1	325	0.64	26.2	22.45	82.32	5.86	3.03	7.76	3.80
2015/11/20	MF	DS2	0.563299	B	9.1	276.4	0.44	25.9	27.68	80.92	5.62	8.83	7.8	7.90
2015/11/20	MF	DS2	0.563993	M	5.3	266.3	0.71	25.89	26.7	80.32	5.61	6.13	7.8	5.50
2015/11/20	MF	DS2	0.564468	T	1.2	286.4	0.81	26.14	22.85	83.42	5.93	3.13	7.78	3.40
2015/11/20	MF	DS2	0.565023	B	9.1	164.3	0.06	25.9	28.03	79.12	5.49	8.53	7.8	7.70

Impact Water Quality Monitoring for Dredging Activities at ESC CMP Vd

2015/11/20	MF	DS2	0.565509	M	5.5	291.2	0.32	25.89	27.11	79.42	5.54	6.03	7.81	5.40
2015/11/20	MF	DS2	0.565972	T	1.3	275.9	0.85	26.13	22.95	83.32	5.93	3.23	7.79	3.20
2015/11/20	MF	DS3	0.569861	B	10	283.8	0.43	25.9	26.94	81.72	5.7	5.43	7.8	5.20
2015/11/20	MF	DS3	0.570394	M	6	278.6	0.56	25.97	24.03	83.72	5.93	3.13	7.79	3.60
2015/11/20	MF	DS3	0.570961	T	0.9	300.1	0.49	26.26	20.8	86.43	6.21	2.23	7.76	3.20
2015/11/20	MF	DS3	0.571574	B	9.6	290.8	0.55	25.9	26.98	80.62	5.63	5.93	7.78	5.50
2015/11/20	MF	DS3	0.572049	M	6.2	280.3	0.81	25.98	23.96	83.73	5.94	3.13	7.78	3.80
2015/11/20	MF	DS3	0.572569	T	1.1	234.8	0.48	26.23	21.21	85.53	6.13	2.43	7.76	3.10
2015/11/20	MF	DS4	0.576111	B	11.2	314.3	0.68	25.93	26.83	82.23	5.74	7.83	7.79	8.50
2015/11/20	MF	DS4	0.576898	M	6.6	262.7	0.62	25.94	23.82	86.23	6.12	2.83	7.8	5.20
2015/11/20	MF	DS4	0.577639	T	0.9	277.5	0.12	26.2	19.42	87.93	6.37	2.43	7.77	4.40
2015/11/20	MF	DS4	0.578333	B	11.4	335.6	0.61	25.93	26.81	79.93	5.58	8.03	7.8	7.90
2015/11/20	MF	DS4	0.578762	M	6.1	293.2	0.77	25.92	24.34	83.93	5.94	3.23	7.81	5.00
2015/11/20	MF	DS4	0.57941	T	1.1	319.3	0.38	26.21	19.69	87.33	6.32	2.43	7.77	4.30
2015/11/20	MF	DS5	0.583426	B	11.3	269.2	0.36	25.97	26.04	84.83	5.94	8.03	7.8	10.60
2015/11/20	MF	DS5	0.584063	M	6.6	278.6	0.58	25.91	24.07	86.64	6.15	2.73	7.81	5.00
2015/11/20	MF	DS5	0.58456	T	1.2	309.6	0.41	26.21	21.04	85.14	6.11	2.73	7.78	3.00
2015/11/20	MF	DS5	0.585069	B	11.4	16.4	0.34	25.97	26.02	81.23	5.69	8.93	7.8	10.00
2015/11/20	MF	DS5	0.585567	M	6.5	281.7	1.1	25.93	24.12	86.34	6.12	2.73	7.82	5.30
2015/11/20	MF	DS5	0.586493	T	1	247.3	0.69	26.19	19.48	88.34	6.4	2.43	7.77	2.90
2015/11/20	MF	US1	0.595602	B	7.2	320.3	0.6	25.91	27.78	83.04	5.77	8.33	7.81	9.60
2015/11/20	MF	US1	0.596007	M	4.6	270	0.16	26.01	24.31	85.14	6.02	5.33	7.83	7.30
2015/11/20	MF	US1	0.596551	T	1.1	290.6	0.47	26.04	23.6	88.85	6.3	4.23	7.82	5.20
2015/11/20	MF	US1	0.597211	B	7.1	264.2	0.72	25.9	27.27	81.54	5.68	7.23	7.81	9.30
2015/11/20	MF	US1	0.597662	M	4.5	335	0.52	26	24.43	84.94	6	5.03	7.82	6.80
2015/11/20	MF	US1	0.598206	T	1	308	0.3	26.03	23.88	87.95	6.23	4.43	7.82	5.30
2015/11/20	MF	US2	0.601204	B	6.1	295.5	0.34	25.9	26.59	83.55	5.84	7.63	7.82	9.80
2015/11/20	MF	US2	0.601563	M	4	311	0.56	25.92	25.13	83.25	5.87	6.43	7.83	9.40
2015/11/20	MF	US2	0.602292	T	1.4	285.4	0.69	25.97	24.08	87.15	6.17	3.63	7.83	5.10
2015/11/20	MF	US2	0.602731	B	6	231.2	0.23	25.89	27.68	80.75	5.61	8.33	7.82	9.20
2015/11/20	MF	US2	0.603229	M	3.9	314.4	0.55	25.91	25.34	82.05	5.78	6.73	7.82	9.90
2015/11/20	MF	US2	0.603819	T	1.3	295.9	0.79	25.96	24.23	86.45	6.12	3.93	7.83	5.20
2015/11/20	MF	MW1	0.639954	B	18.9	331.7	0.33	25.84	31.2	84.58	5.77	6.63	7.86	6.80
2015/11/20	MF	MW1	0.640579	M	10.3	353.5	0.27	25.89	30.36	80.87	5.54	5.13	7.85	6.10
2015/11/20	MF	MW1	0.641273	T	1	28.3	0.28	25.96	29.02	82.27	5.67	3.23	7.85	7.80
2015/11/20	MF	MW1	0.64213	B	19.1	29.2	0.16	25.84	31.36	81.07	5.53	6.33	7.88	6.50
2015/11/20	MF	MW1	0.642963	M	10.8	241.7	0.33	25.89	30.61	79.77	5.46	5.33	7.86	6.10
2015/11/20	MF	MW1	0.643958	T	1	90.5	0.24	25.99	28.82	82.18	5.67	2.73	7.86	7.60