

## 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)
2015/10/07	ME	MW1	0.330868	B	18.1	65.5	0.31	28.21	30.41	77.09	5.08	4.57	7.87	5.3
2015/10/07	ME	MW1	0.331528	M	10.3	163.6	0.05	28.12	25.22	81.58	5.54	3.37	7.81	5.2
2015/10/07	ME	MW1	0.332222	T	1.2	87.6	0.38	28.03	22.16	86.27	5.97	3.27	7.8	3.3
2015/10/07	ME	MW1	0.332859	B	18.3	197.8	0.2	28.21	30.46	76.49	5.04	4.97	7.86	5.4
2015/10/07	ME	MW1	0.333438	M	10.3	129.1	0.06	28.12	25.37	80.98	5.49	3.37	7.82	5.0
2015/10/07	ME	MW1	0.333981	T	1.4	75	0.51	28.03	22.21	85.77	5.93	3.17	7.8	3.3
2015/10/07	ME	DS1	0.395301	B	6.9	129	0.53	28.09	25.06	77.61	5.28	17.65	7.74	32.2
2015/10/07	ME	DS1	0.395903	M	4.2	78.3	0.5	28.16	22.77	79.09	5.44	5.07	7.73	14.0
2015/10/07	ME	DS1	0.396319	T	0.8	91.3	0.7	28.05	9.9	83.07	6.15	5.47	7.68	5.5
2015/10/07	ME	DS1	0.396794	B	7.2	150.6	0.58	28.08	24.96	78.1	5.31	10.96	7.75	30.3
2015/10/07	ME	DS1	0.397153	M	4.1	87	0.62	28.21	23	78.49	5.39	5.37	7.72	14.3
2015/10/07	ME	DS1	0.397604	T	1.1	93.9	0.55	28.06	10.85	82.47	6.07	5.57	7.66	5.4
2015/10/07	ME	DS2	0.401088	B	5	151	0.26	28.11	23.49	82.85	5.68	7.76	7.72	10.0
2015/10/07	ME	DS2	0.40147	M	3.9	83.6	0.66	28.23	21.12	81.46	5.65	5.07	7.68	5.5
2015/10/07	ME	DS2	0.401863	T	1	69.6	0.66	28.09	10.05	82.75	6.12	5.37	7.65	5.6
2015/10/07	ME	DS2	0.402535	B	5	103.6	0.5	28.11	23.65	78.27	5.36	8.76	7.73	9.9
2015/10/07	ME	DS2	0.402917	M	3.7	121.3	0.61	28.19	22.39	78.57	5.41	7.37	7.71	5.5
2015/10/07	ME	DS2	0.403299	T	1	71.5	0.64	28.1	10.46	81.25	5.99	5.67	7.66	5.4
2015/10/07	ME	DS3	0.414363	B	4.6	73.6	0.6	28.24	20.67	81.79	5.68	5.07	7.69	9.0
2015/10/07	ME	DS3	0.41485	M	3	47.5	0.67	28.21	18.61	83.18	5.85	4.27	7.68	5.5
2015/10/07	ME	DS3	0.415313	T	1.3	41.9	0.95	28.13	12.85	82.58	6.01	4.87	7.64	5.0
2015/10/07	ME	DS3	0.41566	B	5.2	174.4	0.35	28.1	24.65	78.61	5.36	8.86	7.71	9.1
2015/10/07	ME	DS3	0.41603	M	3.6	80.1	0.75	28.27	20.13	79.8	5.56	4.97	7.69	5.6
2015/10/07	ME	DS3	0.416505	T	0.9	50.8	0.75	28.14	9.61	81.59	6.04	5.17	7.66	5.0
2015/10/07	ME	DS4	0.419688	B	5.8	13.3	0.32	28.15	23.89	82.76	5.66	5.37	7.7	7.2
2015/10/07	ME	DS4	0.419965	M	4.2	73.3	0.51	28.25	19.08	81.47	5.71	4.37	7.67	4.0
2015/10/07	ME	DS4	0.42037	T	1.1	108.9	0.7	28.1	12.89	81.57	5.93	4.87	7.64	6.1
2015/10/07	ME	DS4	0.420833	B	6.2	100.6	0.34	28.15	23.46	78.98	5.41	5.77	7.71	7.1
2015/10/07	ME	DS4	0.421169	M	4.3	104	0.73	28.27	19.24	79.78	5.59	4.67	7.68	4.3
2015/10/07	ME	DS4	0.421539	T	1.1	110.3	1.13	28.13	10.07	82.55	6.1	5.27	7.66	5.7
2015/10/07	ME	DS5	0.424722	B	7.9	110.8	0.63	28.19	22.36	80.65	5.56	4.97	7.7	5.7
2015/10/07	ME	DS5	0.425162	M	5.2	119.2	0.75	28.13	19.06	81.84	5.75	3.87	7.67	6.3
2015/10/07	ME	DS5	0.425706	T	1.1	120.4	0.52	28.06	10.25	83.83	6.19	5.17	7.67	4.0
2015/10/07	ME	DS5	0.426215	B	7.6	123	0.29	28.19	22.4	79.45	5.47	5.07	7.7	5.8
2015/10/07	ME	DS5	0.426528	M	4.9	93.4	0.62	28.03	18.26	81.44	5.76	4.07	7.68	5.9
2015/10/07	ME	DS5	0.426875	T	1.2	107.2	1.25	28.07	10.39	83.32	6.15	4.97	7.67	3.9
2015/10/07	ME	US1	0.436319	B	7.7	53	0.13	28.05	25.37	80.9	5.49	16.15	7.75	28.6
2015/10/07	ME	US1	0.436748	M	5.4	96.2	0.58	28.12	24.53	79.8	5.44	13.25	7.74	14.0
2015/10/07	ME	US1	0.437037	T	0.8	107	0.62	28.14	9.99	81.19	6	7.76	7.64	5.6
2015/10/07	ME	US1	0.437523	B	8	42.2	0.54	28.05	25.41	79.7	5.41	17.35	7.76	30.7
2015/10/07	ME	US1	0.43787	M	5	65.8	0.55	28.24	22.91	80.39	5.52	7.86	7.71	13.7
2015/10/07	ME	US1	0.438657	T	1.1	85	0.45	28.14	10.24	81.98	6.05	5.97	7.61	5.7
2015/10/07	ME	US2	0.441852	B	7.1	125.6	0.14	28.1	25.29	80.38	5.46	10.06	7.72	12.7
2015/10/07	ME	US2	0.442176	M	4.8	57.5	0.4	28.26	22.87	79.98	5.49	7.86	7.7	9.8
2015/10/07	ME	US2	0.442488	T	0.8	115.3	0.96	28.12	10.97	79.88	5.87	6.37	7.6	10.6
2015/10/07	ME	US2	0.443021	B	7.4	132.7	0.18	28.1	25.81	77.29	5.23	10.16	7.72	13.2
2015/10/07	ME	US2	0.443345	M	5	76.7	0.55	28.26	23.47	78.28	5.35	7.57	7.7	9.9
2015/10/07	ME	US2	0.443669	T	1	123.6	1.29	28.08	10.66	79.47	5.85	6.17	7.6	11.0
2015/10/07	MF	DS1	0.634549	B	6	153.7	0.17	28.17	21.7	81.2	5.62	7.37	7.69	8.9
2015/10/07	MF	DS1	0.634965	M	3.9	266.4	0.27	28.18	21.43	78.4	5.43	7.76	7.69	9.3
2015/10/07	MF	DS1	0.635405	T	1	294.1	0.43	28.22	15.42	79.5	5.69	5.67	7.63	18.5
2015/10/07	MF	DS1	0.635914	B	6	291.4	0.14	28.12	25.41	76.5	5.19	11.56	7.72	8.9
2015/10/07	MF	DS1	0.636296	M	4.1	5.8	0.24	28.2	20.86	77.4	5.38	8.26	7.69	9.8
2015/10/07	MF	DS1	0.636794	T	1	255.5	0.3	28.18	16.72	79.7	5.67	5.87	7.66	18.9
2015/10/07	MF	DS2	0.639815	B	5.1	292.9	0.89	28.2	21.47	80.1	5.55	5.97	7.7	7.0
2015/10/07	MF	DS2	0.640266	M	3.6	304.6	0.59	28.07	19.73	82	5.74	5.77	7.7	6.0
2015/10/07	MF	DS2	0.64066	T	1.2	279.1	0.39	28.21	10.68	83.9	6.17	5.47	7.65	4.8
2015/10/07	MF	DS2	0.6411	B	4.9	270.3	0.52	28.19	22.21	79	5.45	7.07	7.7	6.9

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2015/10/07	MF	DS2	0.641655	M	3.4	305.5	0.53	28.11	17.36	80.7	5.72	6.07	7.7	6.3
2015/10/07	MF	DS2	0.642037	T	1	312	0.27	28.23	9.03	84.5	6.27	5.57	7.67	4.6
2015/10/07	MF	DS3	0.646227	B	19	90.4	0.27	28.22	27.34	70.8	4.74	14.65	7.71	27.0
2015/10/07	MF	DS3	0.646725	M	10.5	302.3	0.36	28.17	25.05	74.7	5.07	12.36	7.73	21.5
2015/10/07	MF	DS3	0.647245	T	1.1	0.4	0.68	28.17	16.29	78.8	5.62	6.27	7.66	5.9
2015/10/07	MF	DS3	0.648009	B	19	329.4	0.12	28.25	27.45	69.4	4.64	18.54	7.7	25.8
2015/10/07	MF	DS3	0.648519	M	10.4	250.9	0.39	28.18	25	74.2	5.04	13.15	7.73	21.3
2015/10/07	MF	DS3	0.649016	T	1.2	266.4	0.52	28.19	14.54	79	5.68	6.17	7.64	6.2
2015/10/07	MF	DS4	0.652222	B	23	317.7	0.34	28.19	26.82	71.7	4.82	10.06	7.71	9.8
2015/10/07	MF	DS4	0.652824	M	12.5	268.6	0.21	28.14	26.2	74.3	5.02	9.86	7.74	9.1
2015/10/07	MF	DS4	0.653461	T	1.3	292.8	0.37	28.16	16.88	79	5.61	6.07	7.66	6.0
2015/10/07	MF	DS4	0.654375	B	23	41.6	0.34	28.19	26.81	71	4.77	10.26	7.71	10.7
2015/10/07	MF	DS4	0.654954	M	12.6	26.2	0.13	28.14	26.15	74.1	5	10.16	7.74	9.0
2015/10/07	MF	DS4	0.655544	T	1.2	331.5	0.4	28.16	16.44	79	5.63	6.17	7.66	6.2
2015/10/07	MF	DS5	0.658322	B	6.6	293.2	0.57	28.13	23.47	79.6	5.46	11.86	7.73	11.4
2015/10/07	MF	DS5	0.658704	M	4.6	345.6	0.55	28.12	19.11	80	5.62	6.47	7.69	11.5
2015/10/07	MF	DS5	0.659178	T	1.1	282.3	0.25	28.25	13.4	81.6	5.9	5.87	7.64	5.2
2015/10/07	MF	DS5	0.659711	B	6.7	269	0.39	28.13	23.8	77.3	5.29	13.05	7.73	11.3
2015/10/07	MF	DS5	0.660127	M	4.5	20.8	0.06	28.12	18.84	79.3	5.58	6.67	7.7	12.3
2015/10/07	MF	DS5	0.661134	T	1.2	8.4	0.37	28.24	15.21	80.7	5.78	5.97	7.66	5.1
2015/10/07	MF	US1	0.669167	B	6.1	238.6	0.28	28.13	24.08	82	5.6	10.56	7.76	16.3
2015/10/07	MF	US1	0.669572	M	4.2	332	0.29	28.1	20.91	82.2	5.72	7.37	7.75	7.8
2015/10/07	MF	US1	0.670023	T	1.2	62.9	0.67	28.15	17.51	81.9	5.8	5.67	7.71	7.2
2015/10/07	MF	US1	0.670463	B	6.1	305.8	0.79	28.14	23.09	80.1	5.5	8.46	7.75	16.8
2015/10/07	MF	US1	0.670868	M	3.9	255.8	0.18	28.1	21.1	81.4	5.66	7.27	7.75	7.4
2015/10/07	MF	US1	0.671516	T	1	8.9	0.12	28.26	15.7	80	5.71	5.37	7.68	7.3
2015/10/07	MF	US2	0.674086	B	6.2	194.7	0.02	28.11	23.14	81.7	5.61	9.76	7.74	12.0
2015/10/07	MF	US2	0.674537	M	3.8	279	0.39	28.07	21.35	83.3	5.78	7.17	7.74	7.9
2015/10/07	MF	US2	0.674988	T	1.1	262.9	0.35	28.16	17.82	86.9	6.14	4.67	7.75	5.6
2015/10/07	MF	US2	0.675532	B	6	292.5	0.67	28.1	22.66	82.2	5.66	8.96	7.74	11.0
2015/10/07	MF	US2	0.675914	M	4.1	265.7	0.59	28.07	21.83	83	5.75	7.67	7.74	7.8
2015/10/07	MF	US2	0.676377	T	0.9	235	1.01	28.16	17.77	86.5	6.12	4.67	7.75	5.3
2015/10/07	MF	MW1	0.710162	B	18.8	18.5	0.21	28.22	30.39	78.4	5.16	10.76	7.86	11.2
2015/10/07	MF	MW1	0.710799	M	10.6	40.1	0.23	28.21	29.94	77.9	5.14	9.16	7.85	9.5
2015/10/07	MF	MW1	0.711377	T	1.3	181.3	0.18	28.16	25.94	79.5	5.37	4.97	7.78	4.0
2015/10/07	MF	MW1	0.712188	B	19.2	331.4	0.25	28.22	30.28	77.4	5.1	11.16	7.86	11.1
2015/10/07	MF	MW1	0.712928	M	10.6	290.5	0.2	28.21	30.05	77.6	5.12	9.86	7.85	9.4
2015/10/07	MF	MW1	0.713553	T	1.2	287.9	0.19	28.17	26.34	79.4	5.35	4.77	7.79	3.9