

## 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)
2016/01/12	MF	MW1	0.350498	B	19.1	59.6	0.48	19.79	30.51	93.95	7.16	3.26	7.9	5.70
2016/01/12	MF	MW1	0.351076	M	10.4	42.8	0.47	19.8	30.3	94.57	7.22	2.06	7.94	4.60
2016/01/12	MF	MW1	0.351852	T	1.2	99.5	0.24	19.8	30.16	95.41	7.29	2.04	7.96	5.50
2016/01/12	MF	MW1	0.352674	B	18.9	27.9	0.35	19.8	30.51	93.83	7.15	4.27	7.97	5.60
2016/01/12	MF	MW1	0.353426	M	10.6	69.9	0.38	19.8	30.27	94.57	7.22	2.15	7.97	4.40
2016/01/12	MF	MW1	0.354051	T	0.9	78.7	0.38	19.79	30.19	95.45	7.29	2.14	7.97	5.70
2016/01/12	MF	DS1	0.398808	B	8	246.3	0.61	19.75	29.25	96.29	7.4	4.94	7.97	4.40
2016/01/12	MF	DS1	0.399282	M	4.9	287.8	0.71	19.71	28.99	96.52	7.44	3.51	7.97	4.70
2016/01/12	MF	DS1	0.399919	T	1.1	306.7	0.65	19.68	28.94	97.04	7.48	3.14	7.97	6.00
2016/01/12	MF	DS1	0.400451	B	8	262.8	0.42	19.72	29.09	96.22	7.41	3.75	7.97	4.30
2016/01/12	MF	DS1	0.400914	M	5.2	291.8	0.48	19.72	29.08	96.47	7.43	3.37	7.97	4.50
2016/01/12	MF	DS1	0.401308	T	1.3	279.5	0.34	19.69	28.97	96.78	7.46	3.33	7.97	6.20
2016/01/12	MF	DS2	0.40434	B	6.9	317.6	0.32	19.75	29.23	96.69	7.43	4.33	7.96	4.70
2016/01/12	MF	DS2	0.404711	M	4.4	325.2	0.4	19.74	29.14	96.63	7.43	3.36	7.97	5.60
2016/01/12	MF	DS2	0.405185	T	1.2	285.5	0.46	19.68	28.9	96.98	7.48	2.63	7.97	6.20
2016/01/12	MF	DS2	0.405683	B	7	142.8	1.02	19.76	29.26	96.2	7.39	4.37	7.97	4.60
2016/01/12	MF	DS2	0.406238	M	4.8	300.4	0.5	19.74	29.2	96.29	7.4	3.55	7.97	5.20
2016/01/12	MF	DS2	0.406678	T	1	318.2	0.84	19.69	28.94	96.86	7.47	2.73	7.97	6.30
2016/01/12	MF	DS3	0.410706	B	26.1	336.5	0.1	19.77	29.37	95.03	7.3	4.77	7.96	6.30
2016/01/12	MF	DS3	0.411771	M	14.1	293.7	0.58	19.76	29.1	95.47	7.34	2.9	7.95	5.90
2016/01/12	MF	DS3	0.412442	T	1.1	316.8	0.67	19.74	29.01	96.41	7.42	2.81	7.95	4.10
2016/01/12	MF	DS3	0.413542	B	25.9	292.7	0.21	19.78	29.32	94.69	7.27	3.64	7.95	6.40
2016/01/12	MF	DS3	0.414317	M	14	271.4	0.26	19.77	29.12	95.29	7.33	2.84	7.95	6.30
2016/01/12	MF	DS3	0.414977	T	1.1	312.1	0.21	19.74	29	96.31	7.41	2.99	7.95	4.00
2016/01/12	MF	DS4	0.420451	B	8.6	296.6	0.5	19.75	29.2	96.64	7.43	3.22	7.96	6.60
2016/01/12	MF	DS4	0.42125	M	5.5	302	0.4	19.74	28.98	96.39	7.42	2.93	7.95	3.40
2016/01/12	MF	DS4	0.421759	T	1.2	306.4	0.56	19.72	28.87	96.76	7.46	2.58	7.95	6.00
2016/01/12	MF	DS4	0.422338	B	9	289.2	0.5	19.74	29.26	96.13	7.39	3.95	7.96	6.90
2016/01/12	MF	DS4	0.422813	M	5.5	322.8	0.62	19.75	29	96.06	7.39	2.47	7.95	3.60
2016/01/12	MF	DS4	0.423299	T	1	321.6	0.5	19.72	28.86	96.61	7.45	2.36	7.95	5.90
2016/01/12	MF	DS5	0.426377	B	10.3	301.8	0.47	19.73	29.38	96.73	7.43	5.49	7.95	7.50
2016/01/12	MF	DS5	0.426817	M	6	325	0.29	19.76	29.15	96.39	7.41	2.88	7.95	6.50
2016/01/12	MF	DS5	0.427315	T	1	277.3	0.46	19.72	28.84	96.88	7.47	2.33	7.94	4.90
2016/01/12	MF	DS5	0.427905	B	10.1	274.8	0.48	19.74	29.35	96.22	7.39	5.71	7.95	7.90
2016/01/12	MF	DS5	0.428322	M	5.9	318.2	0.6	19.76	29.04	96.04	7.39	2.4	7.94	6.90
2016/01/12	MF	DS5	0.428808	T	1	306.9	0.13	19.75	28.89	96.34	7.42	2.34	7.94	4.50
2016/01/12	MF	US1	0.43831	B	8.2	282.8	0.07	19.64	29.33	97.74	7.52	3.04	7.97	6.00
2016/01/12	MF	US1	0.4389	M	5	293.1	0.23	19.64	29.32	98.09	7.55	2.87	7.97	4.40
2016/01/12	MF	US1	0.439653	T	0.9	277.6	0.65	19.65	29.33	98.2	7.56	2.87	7.97	4.50
2016/01/12	MF	US1	0.440185	B	7.8	232.7	0.59	19.66	29.34	97.38	7.49	2.79	7.97	6.00
2016/01/12	MF	US1	0.440718	M	5	260	0.28	19.66	29.34	97.52	7.5	3.21	7.97	4.20
2016/01/12	MF	US1	0.441204	T	0.9	253.4	0.8	19.67	29.35	97.65	7.51	2.82	7.95	4.70
2016/01/12	MF	US2	0.444502	B	7.2	274.4	0.29	19.67	29.37	97.36	7.49	3.88	7.95	7.40
2016/01/12	MF	US2	0.445289	M	4.4	235.4	0.25	19.68	29.37	97.31	7.48	3.46	7.95	5.70
2016/01/12	MF	US2	0.446273	T	1.1	273.8	0.69	19.67	29.36	97.56	7.51	2.86	7.95	5.00
2016/01/12	MF	US2	0.446944	B	7.1	298.7	0.11	19.68	29.37	96.84	7.45	4.25	7.95	7.20
2016/01/12	MF	US2	0.447546	M	4.5	255.3	0.85	19.68	29.37	97.06	7.46	3.27	7.95	5.90
2016/01/12	MF	US2	0.448113	T	1.2	280.4	0.56	19.65	29.33	97.85	7.53	2.91	7.95	4.90
2016/01/12	ME	DS	0.566435	M	5	198.8	0.5	19.81	30.03	95.42	7.29	3.2	7.57	0.00
2016/01/12	ME	DS	0.566979	M	4.9	109	0.45	19.8	29.94	95.68	7.32	3.05	7.82	0.00
2016/01/12	ME	US	0.570509	M	14	253.8	0.6	19.83	29.98	95.26	7.28	2.06	7.92	0.00
2016/01/12	ME	US	0.570949	M	13.9	138.6	0.16	19.83	29.96	95.29	7.28	1.97	7.93	0.00
2016/01/12	ME	US2	0.580046	B	7.9	209.3	0.09	19.73	29.55	97.01	7.45	3.38	7.97	5.60
2016/01/12	ME	US2	0.580451	M	5	49	0.17	19.71	29.4	98.73	7.59	2.17	7.98	3.50
2016/01/12	ME	US2	0.581192	T	1	130.1	0.59	19.69	29.27	100.29	7.72	2.25	7.99	3.50
2016/01/12	ME	US2	0.581701	B	8	306.8	0.51	19.74	29.58	96.96	7.44	3.19	7.97	5.50
2016/01/12	ME	US2	0.582083	M	5	81	0.37	19.71	29.42	98.31	7.55	2.18	7.98	3.60
2016/01/12	ME	US2	0.582558	T	0.9	126.3	0.83	19.69	29.26	100.03	7.7	2.18	7.99	3.40

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2016/01/12	ME	US1	0.586852	B	9	176.8	0.07	19.77	29.77	96.69	7.41	3.01	7.97	15.50
2016/01/12	ME	US1	0.587407	M	5.6	85	0.49	19.73	29.52	97.82	7.51	2.75	7.98	3.10
2016/01/12	ME	US1	0.587882	T	0.8	67.7	0.38	19.69	29.35	100.21	7.71	2.11	7.99	6.30
2016/01/12	ME	US1	0.588403	B	9	17.9	0.14	19.78	29.75	96.66	7.4	3.47	7.97	15.90
2016/01/12	ME	US1	0.588924	M	5.6	125.3	0.46	19.72	29.44	98.45	7.56	2.32	7.98	3.10
2016/01/12	ME	US1	0.589456	T	0.8	71.4	0.38	19.71	29.3	100.97	7.76	2.22	7.99	6.00
2016/01/12	ME	DS1	0.592755	B	8.1	109.3	0.44	19.8	30.03	96.48	7.37	2.29	7.96	6.30
2016/01/12	ME	DS1	0.59338	M	5	148.9	0.46	19.76	29.52	100.19	7.69	2.19	7.98	5.10
2016/01/12	ME	DS1	0.593912	T	0.9	113.6	0.14	19.71	29.4	101.16	7.77	2.04	7.99	4.20
2016/01/12	ME	DS1	0.59456	B	8.1	117.1	0.53	19.82	29.98	96.15	7.35	2.65	7.96	6.40
2016/01/12	ME	DS1	0.595058	M	4.9	73.3	0.44	19.76	29.58	99.02	7.59	1.95	7.97	5.20
2016/01/12	ME	DS1	0.595741	T	1.1	81.8	0.75	19.72	29.41	100.66	7.73	2.14	7.98	4.60
2016/01/12	ME	DS2	0.599421	B	6.9	128.6	0.22	19.82	30.11	96.63	7.38	2.33	7.96	5.40
2016/01/12	ME	DS2	0.599988	M	4.4	106.1	0.55	19.76	29.59	99.11	7.6	1.96	7.98	3.60
2016/01/12	ME	DS2	0.600382	T	0.9	118	0.6	19.74	29.46	101.78	7.81	2.11	7.99	3.70
2016/01/12	ME	DS2	0.600938	B	6.9	102.1	0.25	19.82	30.05	96.66	7.38	2.36	7.96	5.20
2016/01/12	ME	DS2	0.601597	M	4.4	135.7	0.47	19.75	29.48	101.14	7.76	1.92	7.99	3.80
2016/01/12	ME	DS2	0.601991	T	0.4	64.9	0.47	19.72	29.4	101.26	7.78	2.01	7.99	3.50
2016/01/12	ME	DS3	0.605822	B	6.8	149.3	0.04	19.82	30.15	97.15	7.42	2.29	7.96	4.70
2016/01/12	ME	DS3	0.6064	M	4.6	122.4	0.73	19.77	29.65	99.18	7.6	2.08	7.98	6.80
2016/01/12	ME	DS3	0.606852	T	1	88.7	0.8	19.76	29.5	101.4	7.78	2.04	7.99	6.40
2016/01/12	ME	DS3	0.607465	B	6.9	84.5	0.5	19.82	30.12	96.45	7.37	2.26	7.96	4.60
2016/01/12	ME	DS3	0.607824	M	4.5	103.7	0.12	19.76	29.51	100.34	7.7	1.92	7.98	6.30
2016/01/12	ME	DS3	0.608368	T	1.2	102.1	0.53	19.72	29.4	101.66	7.81	2.04	7.99	6.00
2016/01/12	ME	DS4	0.611921	B	7.3	109.4	0.62	19.79	30.04	97.28	7.44	2.12	7.95	6.20
2016/01/12	ME	DS4	0.612512	M	4.5	95.7	0.58	19.76	29.68	97.87	7.5	2.2	7.96	4.40
2016/01/12	ME	DS4	0.612917	T	1.1	117.5	0.54	19.74	29.45	100.83	7.74	2.2	7.97	3.00
2016/01/12	ME	DS4	0.613495	B	6.9	102.5	0.58	19.81	30.07	96.58	7.38	2.06	7.95	6.80
2016/01/12	ME	DS4	0.614016	M	5.2	60.5	0.66	19.76	29.65	98.26	7.53	2.19	7.96	4.30
2016/01/12	ME	DS4	0.614583	T	1	73.9	0.69	19.75	28.81	102.15	7.87	1.85	7.96	3.10
2016/01/12	ME	DS5	0.618229	B	10.1	145.5	0.56	19.79	29.9	97.47	7.46	2.18	7.96	4.90
2016/01/12	ME	DS5	0.618681	M	6.1	95.9	0.48	19.75	29.47	101.05	7.76	1.95	7.98	5.30
2016/01/12	ME	DS5	0.619236	T	0.8	47.2	0.4	19.75	28.41	102.35	7.91	1.92	7.97	5.00
2016/01/12	ME	DS5	0.619838	B	9.9	118.8	0.52	19.79	29.9	97.4	7.45	2.12	7.96	4.90
2016/01/12	ME	DS5	0.620394	M	6.3	107.5	0.7	19.76	29.47	101.13	7.76	2.21	7.98	5.00
2016/01/12	ME	DS5	0.620833	T	0.6	95.7	0.68	19.76	28.56	102.31	7.89	1.88	7.98	4.80
2016/01/12	ME	MW1	0.64912	B	19	315.3	0.53	19.83	30.62	97.42	7.42	1.32	7.95	4.10
2016/01/12	ME	MW1	0.649745	M	10.5	23.4	0.05	19.83	30.6	97.9	7.45	1.55	7.95	3.30
2016/01/12	ME	MW1	0.650301	T	1	74.7	0.46	19.84	30.54	99.12	7.55	1.06	7.95	3.30
2016/01/12	ME	MW1	0.651134	B	18.9	14.7	0.49	19.83	30.61	97.22	7.4	1.4	7.95	4.30
2016/01/12	ME	MW1	0.651701	M	10.3	115.2	0.11	19.83	30.58	98.07	7.47	1.2	7.95	3.30
2016/01/12	ME	MW1	0.652326	T	1	49	0.33	19.84	30.54	99.11	7.55	1.12	7.95	3.10