

Impact Water Quality Monitoring for Dredging Activities at ESC CMP Vb

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)
2019/11/20	ME	MW1	05:11	B	18.8	43.1	0.40	24.74	32.94	97.62	6.72	3.91	8.08	3.8
2019/11/20	ME	MW1	05:12	M	10.6	74.9	0.28	24.75	32.96	97.42	6.70	4.41	8.05	5.1
2019/11/20	ME	MW1	05:13	T	1.2	28.7	1.68	24.74	32.97	98.82	6.80	3.71	8.04	4.0
2019/11/20	ME	MW1	05:14	B	18.7	226.5	0.11	24.76	32.97	97.52	6.71	3.91	8.04	3.8
2019/11/20	ME	MW1	05:15	M	10.5	298.3	0.98	24.77	32.99	97.92	6.73	4.21	8.04	5.3
2019/11/20	ME	MW1	05:16	T	1.1	74.2	0.17	24.73	32.90	98.42	6.78	3.61	8.04	4.1
2019/11/20	ME	US2	06:42	B	8.0	107.3	0.93	24.25	31.54	102.72	7.19	8.50	8.13	8.8
2019/11/20	ME	US2	06:43	M	5.2	109.5	0.31	24.16	31.16	103.92	7.30	6.30	8.13	6.4
2019/11/20	ME	US2	06:44	T	1.3	125.6	0.88	23.87	30.68	108.53	7.68	4.21	8.15	5.9
2019/11/20	ME	US2	06:45	B	8.0	97.8	0.42	24.24	31.52	101.52	7.10	8.30	8.10	9.4
2019/11/20	ME	US2	06:46	M	5.0	78.3	0.53	24.13	31.18	103.93	7.30	6.20	8.11	6.3
2019/11/20	ME	US2	06:47	T	1.0	85.1	0.42	23.89	30.72	107.63	7.61	4.31	8.13	6.0
2019/11/20	ME	US1	06:52	B	9.0	98.1	0.78	24.27	31.44	102.83	7.20	11.40	8.11	12.6
2019/11/20	ME	US1	06:53	M	5.4	129.3	0.48	24.04	31.00	106.74	7.52	5.40	8.13	5.1
2019/11/20	ME	US1	06:53	T	1.3	126.5	1.33	24.04	30.70	109.74	7.74	4.01	8.14	6.0
2019/11/20	ME	US1	06:54	B	8.9	146.1	0.44	24.24	31.40	102.43	7.17	11.00	8.10	12.3
2019/11/20	ME	US1	06:55	M	5.3	122.2	0.82	24.01	30.89	106.64	7.52	5.40	8.13	5.0
2019/11/20	ME	US1	06:56	T	1.4	136.8	0.65	24.03	30.67	110.65	7.81	3.61	8.14	6.2
2019/11/20	ME	DS1	07:01	B	10.6	80.0	0.55	24.18	31.53	103.34	7.24	10.10	8.12	9.0
2019/11/20	ME	DS1	07:02	M	6.8	52.3	0.69	24.14	31.09	105.35	7.40	7.80	8.12	8.4
2019/11/20	ME	DS1	07:03	T	1.0	99.6	0.54	24.07	30.73	109.65	7.73	4.51	8.14	5.2
2019/11/20	ME	DS1	07:04	B	10.8	86.6	0.66	24.19	31.53	103.04	7.22	10.10	8.10	8.4
2019/11/20	ME	DS1	07:05	M	6.9	83.4	0.98	24.17	31.33	104.25	7.31	8.50	8.10	8.7
2019/11/20	ME	DS1	07:06	T	1.4	96.5	0.69	24.08	30.67	104.75	7.39	8.10	8.13	5.3
2019/11/20	ME	DS2	07:11	B	22.9	243.4	0.27	24.30	31.69	101.95	7.12	9.60	8.10	6.3
2019/11/20	ME	DS2	07:12	M	12.6	8.8	0.18	24.17	31.39	103.05	7.23	9.00	8.11	7.6
2019/11/20	ME	DS2	07:13	T	1.4	171.4	0.40	24.07	30.70	110.67	7.80	3.81	8.15	2.9
2019/11/20	ME	DS2	07:15	B	22.9	99.9	0.22	24.29	31.67	101.85	7.12	7.70	8.08	6.1
2019/11/20	ME	DS2	07:16	M	12.4	115.2	0.33	24.18	31.41	102.66	7.20	8.80	8.09	7.8
2019/11/20	ME	DS2	07:17	T	1.3	97.2	0.43	24.05	30.71	110.87	7.82	3.61	8.13	3.1
2019/11/20	ME	DS3	07:22	B	9.9	82.1	0.74	24.20	31.50	104.27	7.30	10.10	8.10	10.9
2019/11/20	ME	DS3	07:23	M	6.0	114.8	0.65	24.17	31.38	104.67	7.34	8.30	8.10	7.8
2019/11/20	ME	DS3	07:23	T	1.1	88.8	0.38	24.05	30.74	111.18	7.84	3.41	8.14	4.3
2019/11/20	ME	DS3	07:24	B	9.9	55.1	0.91	24.20	31.48	103.77	7.27	11.50	8.09	10.7
2019/11/20	ME	DS3	07:25	M	5.8	132.1	0.49	24.16	31.30	104.77	7.35	8.30	8.10	8.0
2019/11/20	ME	DS3	07:26	T	1.3	96.6	0.77	24.05	30.73	111.28	7.85	3.61	8.13	4.2
2019/11/20	ME	DS4	07:35	B	13.8	87.1	0.43	24.20	31.48	103.28	7.23	11.80	8.12	8.5
2019/11/20	ME	DS4	07:36	M	8.0	72.9	0.18	24.19	31.40	104.28	7.31	9.00	8.10	7.4
2019/11/20	ME	DS4	07:37	T	1.3	121.3	0.79	24.14	30.85	110.59	7.78	3.31	8.13	5.7
2019/11/20	ME	DS4	07:38	B	13.7	83.6	1.10	24.20	31.46	103.38	7.24	12.70	8.09	8.9
2019/11/20	ME	DS4	07:39	M	7.8	298.2	0.27	24.19	31.37	103.99	7.29	8.00	8.09	7.6
2019/11/20	ME	DS4	07:40	T	1.0	125.4	1.54	24.16	30.83	111.00	7.81	3.41	8.13	5.8
2019/11/20	ME	DS5	07:46	B	9.7	108.1	0.76	24.20	31.41	104.69	7.34	10.80	8.11	9.9
2019/11/20	ME	DS5	07:47	M	6.1	255.4	0.21	24.16	31.15	107.20	7.53	5.90	8.11	6.9
2019/11/20	ME	DS5	07:48	T	1.2	173.4	0.18	24.15	30.86	110.91	7.80	3.51	8.13	3.4
2019/11/20	ME	DS5	07:49	B	10.1	54.1	1.17	24.20	31.37	104.70	7.34	10.00	8.09	9.6
2019/11/20	ME	DS5	07:50	M	6.1	75.5	0.64	24.19	31.19	106.50	7.47	6.40	8.10	6.7
2019/11/20	ME	DS5	07:50	T	1.0	110.9	1.32	24.14	30.87	110.71	7.79	3.51	8.12	3.5

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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)
2019/11/20	MF	DS1	13:13	B	8.7	317.6	1.19	24.37	31.16	110.21	7.71	8.10	8.20	9.1
2019/11/20	MF	DS1	13:14	M	5.6	89.8	0.23	24.33	31.17	109.01	7.63	5.60	8.20	4.8
2019/11/20	MF	DS1	13:15	T	1.1	269.6	0.44	24.52	31.15	115.63	8.07	3.61	8.22	7.6
2019/11/20	MF	DS1	13:16	B	9.1	322.2	0.81	24.37	31.27	116.63	8.16	4.91	8.17	8.9
2019/11/20	MF	DS1	13:19	M	5.5	304.9	0.29	24.36	31.23	107.63	7.53	7.60	8.18	4.7
2019/11/20	MF	DS1	13:20	T	1.3	322.2	0.14	24.40	31.16	110.94	7.76	5.40	8.19	7.8
2019/11/20	MF	DS2	13:25	B	8.1	319.4	0.68	24.36	31.16	108.95	7.62	4.91	8.19	5.8
2019/11/20	MF	DS2	13:26	M	5.0	333.3	0.21	24.36	31.15	109.85	7.69	4.91	8.19	3.7
2019/11/20	MF	DS2	13:26	T	1.4	317.0	1.51	24.44	31.13	114.46	8.00	3.51	8.21	5.8
2019/11/20	MF	DS2	13:27	B	7.9	31.7	0.59	24.36	31.14	111.46	7.80	5.30	8.20	5.6
2019/11/20	MF	DS2	13:28	M	5.2	310.7	0.79	24.34	31.13	112.06	7.85	4.71	8.20	3.8
2019/11/20	MF	DS2	13:28	T	1.3	267.4	0.55	24.36	31.13	113.87	7.97	4.01	8.21	5.8
2019/11/20	MF	DS3	13:33	B	7.8	301.5	0.50	24.33	31.18	107.27	7.51	6.10	8.19	6.2
2019/11/20	MF	DS3	13:34	M	4.9	271.0	0.49	24.37	31.17	109.28	7.65	4.71	8.19	4.3
2019/11/20	MF	DS3	13:34	T	1.0	268.1	0.39	24.53	31.14	115.79	8.08	3.21	8.21	3.6
2019/11/20	MF	DS3	13:35	B	8.1	107.5	0.49	24.35	31.18	108.48	7.59	6.30	8.18	6.2
2019/11/20	MF	DS3	13:36	M	5.2	246.9	0.66	24.36	31.17	109.08	7.63	4.41	8.19	4.3
2019/11/20	MF	DS3	13:37	T	1.2	268.2	1.74	24.57	31.14	115.49	8.05	3.21	8.22	3.6
2019/11/20	MF	DS4	13:42	B	7.7	260.6	0.67	24.35	31.23	106.39	7.44	6.30	8.19	8.6
2019/11/20	MF	DS4	13:42	M	5.2	264.1	0.91	24.46	31.14	112.31	7.85	3.61	8.21	4.8
2019/11/20	MF	DS4	13:43	T	1.4	348.2	1.54	24.50	31.13	115.31	8.05	3.11	8.21	3.4
2019/11/20	MF	DS4	13:44	B	8.0	219.3	0.16	24.34	31.24	105.50	7.38	5.30	8.18	8.2
2019/11/20	MF	DS4	13:44	M	5.1	328.6	0.41	24.36	31.17	108.31	7.58	4.31	8.19	4.7
2019/11/20	MF	DS4	13:45	T	1.0	213.9	1.20	24.48	31.14	112.82	7.88	3.31	8.21	3.5
2019/11/20	MF	DS5	13:50	B	7.7	18.0	0.25	24.40	31.13	110.12	7.70	8.00	8.20	8.4
2019/11/20	MF	DS5	13:50	M	5.0	226.2	0.98	24.42	31.13	111.33	7.78	6.10	8.20	5.0
2019/11/20	MF	DS5	13:51	T	1.3	252.4	0.13	24.64	30.82	118.24	8.25	4.11	8.22	3.0
2019/11/20	MF	DS5	13:52	B	8.0	315.4	0.78	24.38	31.17	109.43	7.66	6.60	8.19	8.1
2019/11/20	MF	DS5	13:53	M	5.0	287.9	0.92	24.53	31.07	115.24	8.05	3.61	8.21	5.4
2019/11/20	MF	DS5	13:53	T	1.1	297.1	0.26	24.65	30.86	117.25	8.18	3.91	8.22	3.2
2019/11/20	MF	US1	14:07	B	9.0	261.1	0.48	24.52	31.68	104.96	7.30	6.10	8.14	6.0
2019/11/20	MF	US1	14:08	M	5.1	301.7	0.73	24.29	31.19	109.88	7.70	5.20	8.19	6.1
2019/11/20	MF	US1	14:09	T	1.3	250.7	0.42	24.34	31.08	115.60	8.10	4.41	8.22	5.9
2019/11/20	MF	US1	14:10	B	9.2	255.1	0.63	24.50	31.69	104.47	7.27	6.40	8.14	6.0
2019/11/20	MF	US1	14:10	M	5.5	302.1	1.22	24.30	31.11	111.09	7.78	5.01	8.21	6.4
2019/11/20	MF	US1	14:11	T	1.3	351.8	1.32	24.34	31.09	117.11	8.20	4.11	8.22	6.1
2019/11/20	MF	US2	14:16	B	24.1	168.7	0.36	24.68	31.97	100.78	6.98	8.50	8.12	8.1
2019/11/20	MF	US2	14:17	M	13.1	307.0	0.25	24.60	31.80	101.28	7.03	7.60	8.14	8.0
2019/11/20	MF	US2	14:18	T	1.1	281.6	0.74	24.50	31.37	114.72	8.00	3.71	8.20	3.6
2019/11/20	MF	US2	14:20	B	23.8	232.7	0.29	24.68	31.98	99.99	6.93	7.80	8.12	8.2
2019/11/20	MF	US2	14:21	M	12.9	205.9	0.42	24.60	31.82	102.10	7.09	7.40	8.14	8.2
2019/11/20	MF	US2	14:22	T	1.2	301.8	1.16	24.60	31.43	115.24	8.02	3.71	8.20	3.4
2019/11/20	MF	MW1	15:24	B	18.8	85.9	0.21	24.68	32.69	98.16	6.77	6.80	8.03	7.0
2019/11/20	MF	MW1	15:25	M	10.9	77.0	0.81	24.67	32.66	98.86	6.82	5.80	8.03	5.4
2019/11/20	MF	MW1	15:26	T	1.0	49.2	0.17	24.68	32.30	101.17	7.00	4.71	8.05	4.4
2019/11/20	MF	MW1	15:27	B	19.3	295.0	0.33	24.68	32.70	97.66	6.74	7.10	8.03	7.1
2019/11/20	MF	MW1	15:28	M	10.6	29.5	0.51	24.67	32.67	97.66	6.74	6.30	8.03	5.5
2019/11/20	MF	MW1	15:29	T	1.2	82.7	0.86	24.67	32.57	99.47	6.87	4.41	8.04	4.5