

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)
2019/11/22	ME	MW1	07:39	B	18.9	67.8	0.39	24.54	32.94	98.33	6.79	4.21	8.07	4.1
2019/11/22	ME	MW1	07:41	M	10.7	329.8	0.32	24.51	32.91	98.52	6.81	3.21	8.06	5.1
2019/11/22	ME	MW1	07:42	T	1.0	114.0	0.96	24.48	32.89	98.81	6.83	3.11	8.06	3.2
2019/11/22	ME	MW1	07:43	B	19.0	20.7	0.41	24.53	32.92	97.61	6.74	3.71	8.06	3.9
2019/11/22	ME	MW1	07:45	M	10.5	289.5	0.43	24.51	32.91	98.20	6.79	3.61	8.06	5.2
2019/11/22	ME	MW1	07:46	T	1.0	55.8	0.34	24.51	32.92	98.40	6.80	3.31	8.06	3.1
2019/11/22	ME	US2	09:08	B	7.7	101.3	0.24	23.76	32.00	103.92	7.31	7.10	8.13	7.7
2019/11/22	ME	US2	09:09	M	5.0	99.6	0.79	23.74	31.85	105.12	7.41	5.10	8.14	4.9
2019/11/22	ME	US2	09:09	T	1.0	126.7	1.73	23.69	31.69	108.60	7.67	3.31	8.15	4.6
2019/11/22	ME	US2	09:10	B	8.0	173.1	0.99	23.77	32.02	104.12	7.33	7.50	8.12	7.6
2019/11/22	ME	US2	09:11	M	4.7	98.0	0.74	23.72	31.80	105.61	7.45	4.81	8.14	5.1
2019/11/22	ME	US2	09:12	T	1.1	141.8	0.99	23.70	31.67	108.39	7.65	3.31	8.15	4.7
2019/11/22	ME	US1	09:19	B	9.1	90.9	0.40	23.77	31.87	105.07	7.40	6.40	8.13	11.4
2019/11/22	ME	US1	09:20	M	5.6	109.8	0.70	23.75	31.83	105.57	7.44	5.10	8.14	5.3
2019/11/22	ME	US1	09:21	T	1.1	113.7	0.86	23.70	31.69	108.05	7.63	3.41	8.15	3.7
2019/11/22	ME	US1	09:21	B	9.1	135.8	0.36	23.76	31.86	105.06	7.40	7.20	8.13	11.3
2019/11/22	ME	US1	09:22	M	5.7	128.4	0.87	23.73	31.79	106.25	7.49	5.10	8.14	5.3
2019/11/22	ME	US1	09:23	T	0.9	186.9	0.88	23.71	31.67	108.54	7.66	3.41	8.14	3.5
2019/11/22	ME	DS1	09:31	B	11.6	80.5	0.30	23.80	31.96	104.12	7.32	7.50	8.12	7.0
2019/11/22	ME	DS1	09:31	M	7.3	71.1	0.63	23.79	31.90	104.72	7.37	6.30	8.13	6.7
2019/11/22	ME	DS1	09:32	T	0.9	123.6	0.34	23.77	31.79	107.90	7.60	3.91	8.13	4.9
2019/11/22	ME	DS1	09:33	B	12.0	54.3	0.71	23.79	31.93	104.71	7.37	6.10	8.12	7.3
2019/11/22	ME	DS1	09:34	M	7.0	103.1	0.98	23.78	31.91	104.81	7.38	6.10	8.12	6.6
2019/11/22	ME	DS1	09:35	T	1.2	220.5	0.74	23.76	31.76	106.79	7.53	4.31	8.13	4.7
2019/11/22	ME	DS2	09:45	B	9.0	262.4	0.06	23.82	31.87	105.85	7.45	7.00	8.12	7.3
2019/11/22	ME	DS2	09:46	M	5.6	119.0	0.71	23.82	31.86	105.85	7.45	6.30	8.11	7.0
2019/11/22	ME	DS2	09:46	T	1.2	113.6	1.09	23.80	31.82	106.54	7.50	5.40	8.12	6.4
2019/11/22	ME	DS2	09:47	B	9.1	99.6	0.56	23.81	31.87	105.44	7.42	5.90	8.11	7.8
2019/11/22	ME	DS2	09:48	M	5.3	230.6	0.05	23.81	31.86	105.74	7.44	6.20	8.11	7.1
2019/11/22	ME	DS2	09:49	T	1.1	71.6	0.72	23.80	31.83	106.83	7.52	5.40	8.11	6.8
2019/11/22	ME	DS3	09:56	B	9.9	125.3	0.76	23.83	31.86	105.31	7.41	8.00	8.11	6.1
2019/11/22	ME	DS3	09:56	M	6.0	163.5	0.87	23.82	31.86	105.30	7.41	7.30	8.11	6.1
2019/11/22	ME	DS3	09:57	T	1.1	100.3	1.34	23.83	31.85	106.19	7.47	5.01	8.11	6.8
2019/11/22	ME	DS3	09:58	B	10.1	80.7	1.39	23.82	31.86	105.49	7.42	7.30	8.11	5.7
2019/11/22	ME	DS3	09:59	M	6.2	98.8	1.13	23.82	31.86	105.39	7.42	7.40	8.11	6.6
2019/11/22	ME	DS3	09:59	T	1.1	236.9	0.81	23.82	31.84	106.68	7.51	5.70	8.11	6.9
2019/11/22	ME	DS4	10:05	B	12.9	95.0	0.37	23.89	31.89	103.97	7.31	10.60	8.11	9.4
2019/11/22	ME	DS4	10:06	M	7.4	113.9	0.56	23.87	31.88	104.56	7.35	7.70	8.11	7.0
2019/11/22	ME	DS4	10:07	T	1.1	149.2	0.71	23.87	31.87	105.75	7.43	6.80	8.11	6.4
2019/11/22	ME	DS4	10:08	B	13.1	92.1	0.59	23.88	31.89	104.16	7.32	10.30	8.10	9.4
2019/11/22	ME	DS4	10:08	M	7.7	65.6	0.17	23.86	31.86	105.15	7.39	7.80	8.11	7.0
2019/11/22	ME	DS4	10:09	T	1.0	227.6	0.46	23.85	31.85	105.74	7.44	5.20	8.11	6.1
2019/11/22	ME	DS5	10:17	B	8.6	77.2	0.52	23.90	31.89	105.01	7.38	9.40	8.11	8.4
2019/11/22	ME	DS5	10:17	M	5.3	75.1	0.73	23.89	31.89	105.31	7.40	6.90	8.11	8.7
2019/11/22	ME	DS5	10:18	T	1.2	110.0	0.98	23.90	31.88	105.80	7.43	5.90	8.11	6.3
2019/11/22	ME	DS5	10:19	B	9.2	94.9	0.97	23.90	31.89	104.31	7.33	12.30	8.09	8.4
2019/11/22	ME	DS5	10:20	M	5.4	72.7	0.33	23.90	31.89	104.60	7.35	8.40	8.09	8.6
2019/11/22	ME	DS5	10:20	T	1.1	75.8	0.68	23.92	31.88	105.69	7.42	5.80	8.10	6.6

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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)
2019/11/22	MF	DS1	14:26	B	7.9	79.1	0.31	24.16	31.78	106.71	7.47	3.41	8.09	4.2
2019/11/22	MF	DS1	14:27	M	5.0	304.7	0.37	24.27	31.77	108.20	7.56	3.11	8.09	4.5
2019/11/22	MF	DS1	14:27	T	1.0	270.1	0.99	24.33	31.76	110.28	7.70	2.81	8.11	3.8
2019/11/22	MF	DS1	14:28	B	8.1	340.9	1.22	24.22	31.77	107.38	7.51	3.51	8.11	4.4
2019/11/22	MF	DS1	14:29	M	4.8	21.3	0.73	24.28	31.77	108.67	7.59	3.01	8.12	4.5
2019/11/22	MF	DS1	14:30	T	1.1	327.8	0.66	24.37	31.76	111.05	7.74	2.91	8.14	4.0
2019/11/22	MF	DS2	14:35	B	7.8	255.8	0.23	24.12	31.78	105.72	7.40	4.81	8.13	5.2
2019/11/22	MF	DS2	14:36	M	5.0	262.2	0.41	24.13	31.77	106.31	7.44	4.61	8.13	3.2
2019/11/22	MF	DS2	14:37	T	1.0	312.5	0.45	24.43	31.75	109.48	7.63	3.01	8.14	4.2
2019/11/22	MF	DS2	14:37	B	8.1	14.7	0.63	24.11	31.78	106.09	7.43	4.81	8.13	5.3
2019/11/22	MF	DS2	14:38	M	5.0	298.1	0.71	24.20	31.76	106.28	7.43	4.11	8.13	3.0
2019/11/22	MF	DS2	14:39	T	1.0	327.4	0.38	24.46	31.75	110.36	7.68	3.01	8.14	3.9
2019/11/22	MF	DS3	14:44	B	8.0	340.5	0.46	24.15	31.81	104.43	7.31	5.10	8.12	5.2
2019/11/22	MF	DS3	14:45	M	4.9	319.9	0.61	24.16	31.80	105.22	7.36	4.51	8.12	4.4
2019/11/22	MF	DS3	14:46	T	1.1	306.1	1.54	24.38	31.79	108.49	7.56	3.51	8.13	4.0
2019/11/22	MF	DS3	14:46	B	8.1	326.0	0.58	24.15	31.80	104.60	7.32	5.50	8.12	4.9
2019/11/22	MF	DS3	14:47	M	5.0	270.2	0.53	24.16	31.80	104.60	7.32	5.60	8.12	4.4
2019/11/22	MF	DS3	14:48	T	0.9	311.4	0.63	24.26	31.80	106.18	7.42	4.01	8.13	3.8
2019/11/22	MF	DS4	14:53	B	8.0	20.8	1.88	24.19	31.79	106.33	7.44	4.91	8.13	7.8
2019/11/22	MF	DS4	14:53	M	5.0	338.6	0.38	24.21	31.78	106.62	7.45	3.91	8.13	4.6
2019/11/22	MF	DS4	14:54	T	1.1	76.1	0.46	24.54	31.66	110.99	7.72	2.61	8.14	3.0
2019/11/22	MF	DS4	14:55	B	8.1	62.1	0.80	24.16	31.79	106.11	7.42	4.91	8.12	7.3
2019/11/22	MF	DS4	14:55	M	5.0	280.6	0.85	24.16	31.79	106.20	7.43	4.01	8.13	4.9
2019/11/22	MF	DS4	14:56	T	1.1	357.6	0.40	24.56	31.64	111.46	7.75	2.51	8.14	3.0
2019/11/22	MF	DS5	15:01	B	7.9	273.5	0.54	24.35	31.71	105.15	7.34	5.01	8.13	7.0
2019/11/22	MF	DS5	15:02	M	5.0	291.3	0.74	24.39	31.69	107.43	7.49	4.11	8.13	4.4
2019/11/22	MF	DS5	15:02	T	1.0	341.6	0.30	24.64	31.50	109.80	7.63	2.81	8.14	3.4
2019/11/22	MF	DS5	15:03	B	8.1	288.5	0.55	24.34	31.72	107.21	7.48	5.30	8.12	7.0
2019/11/22	MF	DS5	15:04	M	5.0	351.0	0.73	24.41	31.68	108.50	7.56	3.81	8.13	4.2
2019/11/22	MF	DS5	15:04	T	1.0	271.1	0.71	24.71	31.46	111.96	7.77	2.71	8.14	3.4
2019/11/22	MF	US1	15:18	B	10.1	264.9	0.57	23.89	31.91	106.65	7.49	5.40	8.06	8.0
2019/11/22	MF	US1	15:19	M	6.0	1.6	0.79	24.08	31.82	107.04	7.50	5.20	8.06	4.3
2019/11/22	MF	US1	15:20	T	1.0	267.3	0.85	24.16	31.80	108.62	7.60	4.41	8.07	8.2
2019/11/22	MF	US1	15:21	B	9.8	257.1	0.83	23.96	31.88	106.63	7.48	6.40	8.08	7.9
2019/11/22	MF	US1	15:21	M	6.3	119.0	0.50	24.10	31.82	107.81	7.55	4.71	8.09	4.4
2019/11/22	MF	US1	15:22	T	1.1	304.6	0.71	24.15	31.80	109.09	7.63	4.21	8.10	8.3
2019/11/22	MF	US2	15:29	B	23.4	182.3	0.05	23.98	31.88	105.35	7.39	9.10	8.10	5.9
2019/11/22	MF	US2	15:30	M	12.6	348.7	0.80	24.06	31.85	107.22	7.51	7.30	8.10	6.5
2019/11/22	MF	US2	15:31	T	1.0	241.2	0.81	24.16	31.83	110.67	7.74	4.21	8.11	4.2
2019/11/22	MF	US2	15:33	B	23.0	88.9	0.59	24.01	31.87	105.91	7.43	7.60	8.10	5.9
2019/11/22	MF	US2	15:34	M	12.6	299.1	0.32	24.09	31.84	107.67	7.54	6.80	8.11	6.4
2019/11/22	MF	US2	15:35	T	1.1	359.6	0.86	24.13	31.84	110.14	7.71	4.91	8.11	4.2
2019/11/22	MF	MW1	16:34	B	19.1	144.9	0.37	24.53	32.76	95.23	6.58	3.91	8.01	4.0
2019/11/22	MF	MW1	16:35	M	10.6	349.9	0.25	24.52	32.75	95.12	6.58	4.21	8.01	4.1
2019/11/22	MF	MW1	16:36	T	0.9	228.5	0.18	24.50	32.64	96.20	6.66	3.21	8.02	3.6
2019/11/22	MF	MW1	16:37	B	18.9	165.6	0.09	24.53	32.76	94.51	6.53	5.90	8.01	4.1
2019/11/22	MF	MW1	16:38	M	10.4	198.5	0.32	24.52	32.74	94.70	6.55	4.41	8.01	4.0
2019/11/22	MF	MW1	16:39	T	1.0	330.4	0.41	24.49	32.62	96.07	6.65	3.31	8.02	3.7