

## 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)
2019/12/09	ME	MW1	09:40	B	19.0	246.3	0.33	20.99	33.30	88.38	6.48	6.45	7.90	7.7
2019/12/09	ME	MW1	09:41	M	10.7	0.7	0.39	20.99	33.32	88.07	6.46	4.45	7.91	5.4
2019/12/09	ME	MW1	09:42	T	1.0	233.3	0.56	21.00	33.33	88.67	6.50	3.55	7.92	6.6
2019/12/09	ME	MW1	09:44	B	19.0	279.9	0.48	20.98	33.33	87.27	6.40	4.35	7.94	8.3
2019/12/09	ME	MW1	09:45	M	10.4	283.4	0.22	20.99	33.34	87.67	6.43	4.35	7.94	5.5
2019/12/09	ME	MW1	09:46	T	1.0	199.3	0.67	21.00	33.34	88.47	6.49	3.75	7.95	6.3
2019/12/09	ME	US2	10:52	M	4.4	208.8	0.41	19.77	33.42	95.79	7.18	4.75	8.17	6.9
2019/12/09	ME	US2	10:53	T	1.1	67.9	0.47	19.87	33.41	96.49	7.22	4.15	8.18	4.6
2019/12/09	ME	US1	10:59	B	8.1	83.4	0.41	19.64	33.36	97.38	7.32	5.35	8.23	7.4
2019/12/09	ME	US1	11:00	M	5.2	111.4	0.54	19.70	33.36	96.88	7.28	5.25	8.22	8.7
2019/12/09	ME	US1	11:00	T	1.1	196.5	1.34	20.16	33.39	97.58	7.26	3.05	8.21	5.1
2019/12/09	ME	US1	11:01	B	8.2	136.9	0.49	19.73	33.36	96.48	7.24	4.75	8.22	7.3
2019/12/09	ME	US1	11:02	M	5.1	69.6	1.07	19.90	33.37	97.18	7.27	3.85	8.22	9.1
2019/12/09	ME	US1	11:03	T	1.1	155.4	0.67	20.19	33.39	97.48	7.25	2.95	8.21	4.9
2019/12/09	ME	DS1	11:10	B	8.1	99.0	0.51	19.48	33.31	98.57	7.43	7.75	8.22	9.5
2019/12/09	ME	DS1	11:11	M	4.9	90.3	0.36	19.46	33.30	97.67	7.37	6.35	8.23	7.4
2019/12/09	ME	DS1	11:12	T	0.9	86.4	0.51	19.52	33.30	98.47	7.42	5.45	8.23	6.9
2019/12/09	ME	DS1	11:13	B	8.0	106.0	0.68	19.49	33.31	97.47	7.35	6.25	8.23	9.3
2019/12/09	ME	DS1	11:13	M	5.1	111.9	0.94	19.50	33.31	97.37	7.34	6.65	8.23	7.5
2019/12/09	ME	DS1	11:14	T	1.1	73.2	0.27	19.59	33.31	97.96	7.37	5.65	8.23	6.8
2019/12/09	ME	DS2	11:22	B	8.1	33.0	0.49	19.76	33.36	96.96	7.27	10.45	8.20	11.1
2019/12/09	ME	DS2	11:23	M	5.0	38.4	0.36	19.75	33.37	96.76	7.26	6.95	8.21	7.5
2019/12/09	ME	DS2	11:23	T	1.0	74.8	0.17	20.04	33.35	96.26	7.18	5.15	8.20	5.7
2019/12/09	ME	DS2	11:24	B	7.7	157.9	0.61	19.75	33.36	96.15	7.21	7.25	8.21	11.3
2019/12/09	ME	DS2	11:25	M	5.1	50.7	0.47	19.79	33.36	96.15	7.21	5.95	8.21	7.6
2019/12/09	ME	DS2	11:26	T	1.1	111.0	0.74	19.93	33.35	95.65	7.15	4.85	8.21	5.4
2019/12/09	ME	DS3	11:32	B	9.2	124.9	0.49	19.95	33.35	94.65	7.08	11.95	8.22	11.6
2019/12/09	ME	DS3	11:33	M	5.6	101.3	0.42	19.98	33.36	93.85	7.01	7.95	8.21	10.4
2019/12/09	ME	DS3	11:33	T	1.1	208.3	0.19	20.14	33.37	94.35	7.03	5.35	8.21	8.4
2019/12/09	ME	DS3	11:34	B	8.9	141.1	0.59	19.93	33.35	93.75	7.01	10.95	8.22	11.7
2019/12/09	ME	DS3	11:35	M	5.6	104.1	0.71	19.93	33.35	94.15	7.04	10.35	8.22	10.4
2019/12/09	ME	DS3	11:35	T	1.2	347.4	0.60	20.16	33.35	94.54	7.04	4.75	8.21	7.9
2019/12/09	ME	DS4	11:44	B	14.0	124.8	0.70	20.23	33.36	93.04	6.92	6.95	8.19	7.5
2019/12/09	ME	DS4	11:45	M	8.0	61.3	0.51	20.25	33.36	92.44	6.87	5.65	8.19	5.5
2019/12/09	ME	DS4	11:45	T	1.0	70.9	0.37	20.31	33.36	93.44	6.94	5.05	8.19	4.6
2019/12/09	ME	DS4	11:47	B	14.0	87.7	0.41	20.24	33.35	91.64	6.81	6.55	8.19	7.6
2019/12/09	ME	DS4	11:47	M	7.8	81.6	0.84	20.23	33.35	91.84	6.83	6.25	8.19	5.5
2019/12/09	ME	DS4	11:48	T	0.9	79.7	0.23	20.26	33.36	92.83	6.90	5.55	8.20	4.5
2019/12/09	ME	DS5	11:54	B	8.0	191.7	0.49	20.28	33.36	92.63	6.88	6.95	8.19	7.1
2019/12/09	ME	DS5	11:55	M	4.9	111.3	0.31	20.28	33.36	92.43	6.87	5.65	8.19	6.6
2019/12/09	ME	DS5	11:55	T	1.0	133.4	0.77	20.42	33.37	93.52	6.93	3.95	8.19	5.3
2019/12/09	ME	DS5	11:56	B	8.1	2.6	0.29	20.28	33.36	92.13	6.84	6.25	8.19	7.1
2019/12/09	ME	DS5	11:57	M	5.1	180.7	0.33	20.27	33.36	92.03	6.84	5.85	8.19	6.6
2019/12/09	ME	DS5	11:58	T	1.1	65.0	0.69	20.45	33.37	93.32	6.91	3.85	8.19	5.6

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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)
2019/12/09	MF	DS1	15:11	B	10.1	276.8	0.57	19.96	33.32	97.93	7.32	5.25	7.89	9.3
2019/12/09	MF	DS1	15:12	M	5.9	331.7	0.32	20.14	33.32	96.33	7.18	4.95	7.88	6.9
2019/12/09	MF	DS1	15:13	T	1.1	358.0	0.39	20.45	33.33	97.52	7.22	3.55	7.89	5.5
2019/12/09	MF	DS1	15:14	B	9.8	322.6	1.06	19.99	33.34	95.32	7.12	6.15	7.89	9.6
2019/12/09	MF	DS1	15:14	M	6.0	313.3	0.17	20.14	33.34	95.61	7.12	4.85	7.90	6.6
2019/12/09	MF	DS1	15:15	T	1.2	316.5	0.25	20.45	33.35	97.10	7.19	3.65	7.91	5.8
2019/12/09	MF	DS2	15:24	B	7.9	244.4	0.39	20.06	33.38	96.33	7.19	5.65	7.92	6.6
2019/12/09	MF	DS2	15:24	M	5.0	344.5	0.32	20.20	33.39	95.93	7.14	5.45	7.92	6.8
2019/12/09	MF	DS2	15:25	T	1.0	283.3	0.25	20.33	33.39	96.82	7.19	4.25	7.93	4.9
2019/12/09	MF	DS2	15:26	B	8.0	306.3	0.67	20.11	33.39	95.52	7.12	7.85	7.93	6.3
2019/12/09	MF	DS2	15:27	M	5.2	292.0	0.75	20.11	33.39	95.41	7.11	5.85	7.94	7.1
2019/12/09	MF	DS2	15:27	T	1.0	89.2	0.34	20.39	33.40	96.70	7.17	4.05	7.94	5.0
2019/12/09	MF	DS3	15:32	B	7.2	62.1	0.17	20.12	33.40	97.95	7.30	5.65	7.96	8.9
2019/12/09	MF	DS3	15:33	M	4.6	310.8	0.24	20.19	33.40	96.75	7.20	4.65	7.96	6.6
2019/12/09	MF	DS3	15:34	T	1.1	19.0	0.28	20.43	33.41	97.94	7.25	3.35	7.97	4.7
2019/12/09	MF	DS3	15:35	B	7.1	267.8	0.61	20.10	33.41	95.74	7.13	6.25	7.97	8.9
2019/12/09	MF	DS3	15:35	M	4.7	256.6	0.23	20.12	33.41	95.74	7.13	5.05	7.97	6.9
2019/12/09	MF	DS3	15:36	T	1.0	323.2	0.64	20.46	33.41	97.52	7.22	3.45	7.98	4.4
2019/12/09	MF	DS4	15:41	B	6.9	184.9	0.64	20.16	33.42	98.18	7.31	4.35	7.97	7.0
2019/12/09	MF	DS4	15:42	M	4.4	266.4	0.85	20.29	33.42	97.18	7.22	4.55	7.97	5.9
2019/12/09	MF	DS4	15:42	T	1.2	260.5	0.45	20.83	33.43	99.36	7.31	2.75	7.98	6.0
2019/12/09	MF	DS4	15:43	B	6.9	301.8	0.62	20.20	33.43	96.96	7.21	4.55	7.98	7.0
2019/12/09	MF	DS4	15:44	M	4.6	230.4	0.35	20.29	33.42	96.96	7.20	4.25	7.98	6.3
2019/12/09	MF	DS4	15:44	T	1.1	290.1	0.50	20.78	33.43	98.94	7.28	3.05	7.99	6.1
2019/12/09	MF	DS5	15:51	B	8.1	340.9	0.13	20.15	33.43	98.39	7.32	5.25	7.99	7.2
2019/12/09	MF	DS5	15:52	M	5.1	337.0	0.86	20.25	33.43	97.49	7.24	4.15	7.98	5.4
2019/12/09	MF	DS5	15:52	T	1.2	271.4	1.26	20.79	33.43	99.37	7.31	2.75	7.99	4.1
2019/12/09	MF	DS5	15:53	B	8.0	306.5	0.43	20.14	33.43	97.28	7.24	5.65	7.99	7.3
2019/12/09	MF	DS5	15:54	M	4.9	328.9	0.88	20.40	33.42	97.67	7.24	3.85	7.99	5.4
2019/12/09	MF	DS5	15:54	T	1.2	217.6	1.15	20.80	33.43	99.35	7.31	2.65	7.99	4.0
2019/12/09	MF	US1	16:09	B	9.0	303.3	0.28	20.14	33.48	100.61	7.49	6.85	8.04	10.2
2019/12/09	MF	US1	16:10	M	5.4	311.7	0.76	20.24	33.48	100.01	7.43	6.65	8.02	7.0
2019/12/09	MF	US1	16:10	T	1.4	327.8	0.72	20.52	33.49	100.60	7.44	3.85	8.01	6.6
2019/12/09	MF	US1	16:11	B	9.1	310.6	0.38	20.12	33.47	99.01	7.37	7.15	8.01	9.3
2019/12/09	MF	US1	16:12	M	5.4	307.7	0.58	20.27	33.46	99.40	7.38	5.85	8.01	7.5
2019/12/09	MF	US1	16:13	T	1.1	329.1	0.49	20.56	33.48	100.28	7.41	3.25	8.01	6.5
2019/12/09	MF	US2	16:19	B	13.8	236.1	0.33	3:21	33.40	98.44	7.33	7.65	8.00	11.0
2019/12/09	MF	US2	16:20	M	8.1	300.0	0.87	20.27	33.40	98.44	7.31	6.45	8.00	8.7
2019/12/09	MF	US2	16:20	T	1.0	308.3	0.84	20.53	33.41	98.03	7.25	4.15	7.99	5.9
2019/12/09	MF	US2	16:21	B	14.2	0.9	0.60	20.15	33.45	97.73	7.27	7.85	8.01	11.5
2019/12/09	MF	US2	16:22	M	8.0	135.8	0.34	20.24	33.45	97.92	7.28	7.15	8.00	8.5
2019/12/09	MF	US2	16:23	T	1.0	277.6	1.16	20.27	33.45	97.91	7.27	8.65	8.00	5.5
2019/12/09	MF	MW1	17:29	B	19.1	24.3	0.03	21.06	33.45	89.17	6.53	5.75	7.95	7.3
2019/12/09	MF	MW1	17:30	M	10.5	151.2	0.43	21.05	33.48	88.58	6.48	5.25	7.95	7.5
2019/12/09	MF	MW1	17:31	T	1.2	92.3	0.51	21.05	33.44	88.47	6.48	5.55	7.96	8.2
2019/12/09	MF	MW1	17:32	B	19.1	324.5	0.45	21.06	33.50	87.18	6.38	5.25	7.97	7.4
2019/12/09	MF	MW1	17:33	M	10.8	199.2	0.43	21.06	33.50	87.57	6.41	5.95	7.97	7.4
2019/12/09	MF	MW1	17:34	T	1.2	128.0	0.40	21.06	33.49	88.2	6.45	5.8	7.98	8.3