

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)
2017/07/31	ME	MW1	06:33	B	19.3	142.8	0.34	26.63	30.64	49.49	3.34	3.44	8.15	6.00
2017/07/31	ME	MW1	06:35	M	10.5	211.1	0.56	28.42	23.93	67.64	4.6	3.24	8.18	3.90
2017/07/31	ME	MW1	06:36	T	1	73.3	0.43	29.49	18.53	83.4	5.74	2.84	8.21	3.10
2017/07/31	ME	MW1	06:37	B	19	39.4	0.47	26.63	30.64	48.38	3.27	3.34	8.11	5.80
2017/07/31	ME	MW1	06:38	M	10.6	349.9	0.37	28.42	23.88	66.02	4.49	3.24	8.17	4.00
2017/07/31	ME	MW1	06:39	T	0.9	71.5	0.57	29.48	18.57	82.87	5.71	2.84	8.2	3.10
2017/07/31	ME	US2	08:14	B	6.9	220.9	0.35	28.59	22.65	62.45	4.27	4.04	7.98	4.60
2017/07/31	ME	US2	08:14	M	4.5	49	0.94	28.79	21.68	61.85	4.23	3.74	8.02	4.80
2017/07/31	ME	US2	08:15	T	1.1	42.7	1.06	29.53	12.77	76.94	5.46	5.55	8.09	6.00
2017/07/31	ME	US2	08:20	B	6.9	211.5	0.5	28.56	22.81	62.31	4.26	4.94	7.96	4.30
2017/07/31	ME	US2	08:20	M	4.6	94.2	0.58	29.01	20.72	63.78	4.37	3.54	8.01	4.90
2017/07/31	ME	US2	08:21	T	1.1	135.6	0.94	29.62	14.08	78.07	5.5	5.35	8.03	5.90
2017/07/31	ME	US1	08:28	B	9	110.6	0.75	28.41	23.43	58.31	3.98	9.95	7.93	4.80
2017/07/31	ME	US1	08:29	M	5.5	96.1	0.78	28.84	21.42	60.27	4.13	5.15	7.98	5.00
2017/07/31	ME	US1	08:30	T	1	165.8	0.68	29.47	12.3	78.98	5.63	5.55	8.03	4.80
2017/07/31	ME	US1	08:35	B	9	34.3	0.67	28.43	23.34	57.18	3.9	17.06	7.88	5.10
2017/07/31	ME	US1	08:36	M	5.3	92.9	0.74	28.82	21.61	61.7	4.22	4.34	7.93	4.80
2017/07/31	ME	US1	08:36	T	0.8	152.5	1.15	29.51	12.71	75.18	5.34	5.35	8.04	4.80
2017/07/31	ME	DS1	08:43	B	9	144.6	0.43	28.29	23.84	56.64	3.86	8.65	7.83	6.90
2017/07/31	ME	DS1	08:43	M	5.5	89.7	0.54	28.51	22.86	56.34	3.85	9.75	7.88	8.80
2017/07/31	ME	DS1	08:44	T	1	101.6	1.05	29.56	13.08	76.3	5.41	6.05	7.99	4.50
2017/07/31	ME	DS1	08:44	B	9.1	298.3	0.79	28.27	23.94	55.55	3.79	8.65	7.86	7.10
2017/07/31	ME	DS1	08:45	M	5.5	257.5	0.46	28.6	22.5	57.21	3.91	7.45	7.9	8.70
2017/07/31	ME	DS1	08:46	T	1	192.1	1.06	29.61	13.72	78.05	5.51	5.45	7.98	4.50
2017/07/31	ME	DS2	08:52	B	8.9	113.6	0.98	28.07	24.72	55.1	3.75	6.45	7.84	9.10
2017/07/31	ME	DS2	08:53	M	5.6	92.4	0.53	28.52	22.84	56.38	3.85	7.45	7.88	4.70
2017/07/31	ME	DS2	08:54	T	0.8	94.5	0.67	29.61	13.34	77.88	5.51	5.45	7.96	4.60
2017/07/31	ME	DS2	08:55	B	9	264.2	0.5	28.01	25.03	54.5	3.71	6.45	7.84	8.70
2017/07/31	ME	DS2	08:55	M	5.5	125.2	0.44	28.63	22.36	57.44	3.93	6.45	7.89	4.90
2017/07/31	ME	DS2	08:56	T	0.9	106	1.2	29.64	13.7	78.35	5.53	5.15	7.95	4.60
2017/07/31	ME	DS3	09:03	B	7.1	166.2	0.97	28.44	23.17	58.18	3.97	6.75	7.79	5.70
2017/07/31	ME	DS3	09:03	M	4.5	124.7	0.54	29.12	19.51	63.77	4.39	3.84	7.86	4.40
2017/07/31	ME	DS3	09:04	T	1.1	124	0.6	29.56	13.69	75.83	5.36	4.94	7.92	5.80
2017/07/31	ME	DS3	09:05	B	7.1	189.6	0.31	28.48	23.05	57.97	3.96	6.05	7.81	5.60
2017/07/31	ME	DS3	09:05	M	4.6	182.5	0.2	29.34	18.19	67.38	4.66	4.44	7.87	4.70
2017/07/31	ME	DS3	09:06	T	1.2	129.3	0.83	29.57	13.5	76.21	5.39	5.04	7.92	8.60
2017/07/31	ME	DS4	09:12	B	19	312.2	0.19	27.32	27.85	49.59	3.36	6.45	7.8	8.60
2017/07/31	ME	DS4	09:13	M	10.4	17.6	0.68	27.65	26.37	49.79	3.38	6.05	7.84	8.80
2017/07/31	ME	DS4	09:13	T	1.1	112	1	29.58	13.49	76.04	5.38	5.25	7.93	4.60
2017/07/31	ME	DS4	09:14	B	18.8	244.7	0.45	27.35	27.73	48.8	3.31	6.55	7.81	8.90
2017/07/31	ME	DS4	09:15	M	10.4	288.4	0.63	27.86	25.55	50.75	3.45	6.05	7.84	8.30
2017/07/31	ME	DS4	09:16	T	0.9	63.4	0.98	29.6	13.64	75.33	5.32	5.15	7.94	4.50
2017/07/31	ME	DS5	09:22	B	8	110.2	0.78	28.33	23.67	57.96	3.95	6.65	7.78	5.10
2017/07/31	ME	DS5	09:22	M	5.1	226.6	0.05	28.68	22.03	58.35	3.99	5.35	7.81	7.50
2017/07/31	MF	DS1	12:16	B	7.8	308.3	0.46	28.41	23.26	57.7	3.94	8.15	7.71	10.50
2017/07/31	MF	DS1	12:16	M	5.1	312.2	0.9	28.93	21.29	62.19	4.26	5.85	7.77	7.40
2017/07/31	MF	DS1	12:17	T	1.1	52.6	0.34	30.06	12.43	75.86	5.35	7.05	7.84	7.40
2017/07/31	MF	DS1	12:21	B	8	15.3	0.13	28.2	24.28	56.48	3.85	11.75	7.7	10.00
2017/07/31	MF	DS1	12:22	M	5	40.3	0.25	29.02	20.9	62.77	4.3	6.05	7.78	7.50
2017/07/31	MF	DS1	12:23	T	0.9	140	0.27	30.09	12.22	80.23	5.66	7.05	7.86	7.80
2017/07/31	MF	DS2	12:35	B	7	282.3	0.08	28.67	22.45	61.63	4.21	8.75	7.71	11.60
2017/07/31	MF	DS2	12:35	M	4.5	45.6	0.37	29.07	20.2	64.03	4.4	5.25	7.76	8.10
2017/07/31	MF	DS2	12:36	T	1	22.7	1.37	30.05	11.79	79.88	5.65	6.45	7.85	8.30
2017/07/31	MF	DS2	12:39	B	6.6	241	0.49	28.72	22.25	62.52	4.27	8.75	7.71	11.30
2017/07/31	MF	DS2	12:39	M	4.6	308.4	0.89	29.05	20.43	62.42	4.28	7.05	7.78	8.80
2017/07/31	MF	DS2	12:40	T	1.1	352.3	0.63	30.24	10.7	85.85	6.09	7.15	7.86	8.40
2017/07/31	MF	DS3	12:46	B	7.2	265.8	0.45	28.73	22.29	63.49	4.34	9.35	7.7	12.10
2017/07/31	MF	DS3	12:47	M	4.4	305.8	0.42	29.3	18.2	66.88	4.63	5.35	7.79	9.20

Impact Water Quality Monitoring for Dredging Activities at ESC CMP Vd

2017/07/31	MF	DS3	12:47	T	0.9	176.9	0.86	29.9	12.54	74.85	5.29	5.95	7.84	7.30
2017/07/31	MF	DS3	12:48	B	7.1	344.8	0.35	28.82	21.81	61.2	4.18	6.85	7.74	12.40
2017/07/31	MF	DS3	12:49	M	4.7	127.1	0.17	29.08	20.61	64.18	4.4	5.45	7.78	9.60
2017/07/31	MF	DS3	12:49	T	1	10.8	0.28	30.12	11.23	83.62	5.93	7.15	7.86	7.20
2017/07/31	MF	DS4	12:55	B	6.8	173.2	0.86	28.77	21.94	64.46	4.41	5.95	7.69	10.40
2017/07/31	MF	DS4	12:56	M	4.5	290.4	0.61	29.1	19.79	65.16	4.48	4.24	7.75	7.90
2017/07/31	MF	DS4	12:56	T	1.1	110.8	1.34	30.34	9.3	83.59	5.97	7.35	7.9	7.40
2017/07/31	MF	DS4	13:00	B	7	46.9	1.68	28.77	21.91	61.06	4.18	7.65	7.71	10.10
2017/07/31	MF	DS4	13:01	M	4.6	318	0.28	29.29	18.58	68.23	4.71	4.74	7.77	7.50
2017/07/31	MF	DS4	13:02	T	1.1	41.7	0.68	30.4	9.34	89.24	6.37	8.25	7.84	7.50
2017/07/31	MF	DS5	13:07	B	6.8	231	0.78	28.74	22.1	63.13	4.32	5.04	7.68	10.00
2017/07/31	MF	DS5	13:08	M	4.7	221.4	0.78	29.06	20.23	63.73	4.38	4.24	7.73	9.90
2017/07/31	MF	DS5	13:08	T	1	17.6	0.78	30.21	10.57	84.83	6.03	8.25	7.84	8.50
2017/07/31	MF	DS5	13:11	B	7	311.9	0.28	28.73	22.16	62.22	4.25	6.25	7.68	9.90
2017/07/31	MF	DS5	13:12	M	4.6	307.3	0.34	29.18	19.58	65.11	4.48	4.04	7.72	9.10
2017/07/31	MF	DS5	13:13	T	1.1	305.3	0.41	30.2	10.53	85.71	6.09	8.35	7.82	8.60
2017/07/31	MF	US1	13:31	B	7.8	272.8	0.41	28.83	22.08	65.84	4.49	3.74	7.74	10.00
2017/07/31	MF	US1	13:31	M	5	288.7	0.62	29.03	20.83	65.84	4.51	3.84	7.77	6.20
2017/07/31	MF	US1	13:32	T	1	52.8	0.47	30.03	14.25	84.93	5.93	5.35	7.84	8.20
2017/07/31	MF	US1	13:36	B	8	207.6	0.67	28.7	22.53	65.63	4.48	4.44	7.74	9.80
2017/07/31	MF	US1	13:36	M	4.8	256.7	0.28	29.04	20.76	65.82	4.51	3.84	7.77	6.00
2017/07/31	MF	US1	13:37	T	1	46.6	0.41	30.15	13.46	84.22	5.9	5.45	7.87	8.50
2017/07/31	MF	US2	13:44	B	9	160.8	0.55	28.62	22.81	62.22	4.25	6.75	7.74	7.80
2017/07/31	MF	US2	13:44	M	5.4	228.6	1.11	29.03	20.77	67.79	4.65	4.04	7.77	6.20
2017/07/31	MF	US2	13:45	T	0.9	231.4	0.6	30.15	13.2	85.28	5.98	5.15	7.88	7.70
2017/07/31	MF	US2	13:46	B	9	250	0.14	28.67	22.54	64.2	4.38	5.55	7.74	8.40
2017/07/31	MF	US2	13:46	M	5.5	213.1	0.7	29.01	20.59	67.98	4.67	4.24	7.77	6.60
2017/07/31	MF	US2	13:47	T	1	277.3	0.28	29.97	15.33	85.07	5.91	5.15	7.85	7.80
2017/07/31	MF	MW1	14:38	B	19.9	292.9	1.02	26.35	31.45	45.8	3.09	4.14	7.82	6.00
2017/07/31	MF	MW1	14:38	M	10.6	78.5	0.22	27.27	28.28	51.45	3.48	3.14	7.85	3.90
2017/07/31	MF	MW1	14:39	T	1	132	1.02	29.97	17.78	89.52	6.14	3.34	7.97	3.10
2017/07/31	MF	MW1	14:42	B	19.1	257.7	0.84	26.39	31.34	45.4	3.07	4.14	7.81	5.80
2017/07/31	MF	MW1	14:43	M	10.4	162.3	0.67	27.49	26.61	51.74	3.52	3.14	7.84	4.00
2017/07/31	MF	MW1	14:44	T	1	313	0.66	29.64	18.85	86.62	5.94	2.94	7.94	3.10