

## 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)
2016/11/23	ME	MW1	07:13	B	19	282.3	0.81	25.44	30.42	80.86	5.58	3.5	7.83	6.20
2016/11/23	ME	MW1	07:14	M	10.5	171.7	0.4	25.4	30.17	81.15	5.61	2.5	7.84	4.60
2016/11/23	ME	MW1	07:15	T	1.1	254.3	0.5	25.41	29.98	82.35	5.7	2.3	7.84	4.50
2016/11/23	ME	MW1	07:16	B	19	320.8	0.41	25.45	30.4	80.25	5.54	3.3	7.86	6.20
2016/11/23	ME	MW1	07:17	M	10.6	168.8	0.73	25.41	30.19	80.95	5.59	2.6	7.86	9.90
2016/11/23	ME	MW1	07:18	T	1.2	148.7	0.16	25.42	29.98	81.95	5.67	2.4	7.86	8.40
2016/11/23	ME	US2	08:48	B	7	68.4	0.6	25.48	29.92	88.06	6.09	11.39	7.93	7.40
2016/11/23	ME	US2	08:49	M	4.5	77.6	1.09	25.46	28.48	86.97	6.06	5	7.88	7.60
2016/11/23	ME	US2	08:50	T	1	45.4	0.58	25.29	26.93	87.46	6.17	3.4	7.81	5.80
2016/11/23	ME	US2	08:51	B	7.1	132.2	0.47	25.48	29.96	87.26	6.03	8.79	7.94	7.20
2016/11/23	ME	US2	08:51	M	4.4	172	0.41	25.48	28.44	86.56	6.03	5.49	7.88	7.00
2016/11/23	ME	US2	08:52	T	1	85.3	1.1	25.3	26.91	87.56	6.18	3.3	7.81	5.80
2016/11/23	ME	US1	08:57	B	6.8	162.7	0.49	25.36	28.26	88.25	6.17	4.8	7.88	13.60
2016/11/23	ME	US1	08:58	M	4.5	42	0.21	25.33	27.34	87.35	6.14	3.6	7.84	9.20
2016/11/23	ME	US1	08:59	T	0.9	69.4	1.19	25.28	27.05	87.84	6.19	3.2	7.82	10.50
2016/11/23	ME	US1	09:00	B	7.1	106.5	0.58	25.42	28.05	86.75	6.07	4	7.87	13.40
2016/11/23	ME	US1	09:00	M	4.5	67	0.56	25.29	27.09	87.34	6.16	3.3	7.82	9.60
2016/11/23	ME	US1	09:01	T	1.2	159.7	0.66	25.27	27.02	87.74	6.19	3.3	7.82	10.90
2016/11/23	ME	DS1	09:06	B	7	153.3	1.12	25.54	28.8	85.44	5.94	9.39	7.86	13.00
2016/11/23	ME	DS1	09:07	M	4.3	126.7	0.4	25.41	27.94	87.13	6.1	5.59	7.85	9.00
2016/11/23	ME	DS1	09:08	T	1.2	118.1	0.75	25.31	27.29	87.73	6.17	3.6	7.83	4.30
2016/11/23	ME	DS1	09:09	B	7	100.6	0.32	25.52	28.75	85.03	5.91	8.49	7.86	13.80
2016/11/23	ME	DS1	09:10	M	4.6	103.4	0.93	25.44	28.18	86.63	6.05	6.19	7.86	9.50
2016/11/23	ME	DS1	09:11	T	1	211.6	0.53	25.3	27.3	87.72	6.17	3.5	7.83	4.20
2016/11/23	ME	DS2	09:15	B	10.5	206.2	0.75	25.48	28.57	86.92	6.05	7.39	7.86	7.10
2016/11/23	ME	DS2	09:16	M	6	5.2	0.42	25.45	28.11	86.61	6.05	5.59	7.85	6.50
2016/11/23	ME	DS2	09:17	T	0.9	151.9	0.57	25.29	27.23	88.11	6.21	3.3	7.82	4.10
2016/11/23	ME	DS2	09:18	B	10.1	232.3	0.2	25.49	28.76	85.91	5.98	9.39	7.87	6.80
2016/11/23	ME	DS2	09:18	M	6.1	57.5	0.57	25.47	28.34	86.01	6	6.19	7.86	6.60
2016/11/23	ME	DS2	09:19	T	1.1	104.9	0.51	25.34	27.32	87.51	6.15	3.6	7.83	4.00
2016/11/23	ME	DS3	09:24	B	6	41.6	0.88	25.52	29.4	86.8	6.01	12.59	7.9	5.90
2016/11/23	ME	DS3	09:25	M	4	115.5	0.76	25.44	28.03	86.7	6.06	6.09	7.85	5.20
2016/11/23	ME	DS3	09:26	T	1	266.4	0.19	25.31	27.43	87.79	6.17	3.4	7.83	4.10
2016/11/23	ME	DS3	09:27	B	6.2	24.2	0.19	25.52	29.41	86	5.96	12.29	7.9	5.70
2016/11/23	ME	DS3	09:27	M	4	271.2	0.68	25.45	28.33	86.69	6.05	6.29	7.86	#REF!
2016/11/23	ME	DS3	09:28	T	1.1	42.9	0.59	25.28	27.33	87.89	6.19	3.3	7.83	#REF!
2016/11/23	ME	DS4	09:32	B	7.1	339.8	1.26	25.33	27.65	88.08	6.18	4.5	7.82	#REF!
2016/11/23	ME	DS4	09:33	M	4.6	87.4	0.71	25.33	27.63	88.08	6.18	4	7.82	#REF!
2016/11/23	ME	DS4	09:34	T	1.2	278.2	0.11	25.29	27.43	88.07	6.2	3.6	7.81	#REF!
2016/11/23	ME	DS4	09:35	B	6.9	121.9	0.3	25.44	28.48	86.58	6.04	6.69	7.86	#REF!
2016/11/23	ME	DS4	09:36	M	4.5	128.9	0.81	25.4	27.94	86.97	6.09	4.3	7.83	#REF!
2016/11/23	ME	DS4	09:37	T	1.1	165.5	0.21	25.3	27.43	88.07	6.19	3.4	7.81	#REF!
2016/11/23	ME	DS5	09:41	B	5.8	81.7	0.65	25.41	28.18	88.16	6.16	4.1	7.83	7.00
2016/11/23	ME	DS5	09:42	M	4.1	197.6	0.46	25.33	27.86	88.06	6.18	3.8	7.82	7.90
2016/11/23	MF	US2	14:02	B	6.9	314.2	0.21	25.48	28.99	86.13	5.99	6.89	7.87	11.80
2016/11/23	MF	US2	14:03	M	4.7	281.3	0.71	25.45	28.45	86.33	6.02	5.19	7.86	7.60
2016/11/23	MF	US2	14:03	T	1.3	307	0.7	25.26	27.52	89.13	6.27	3	7.84	5.60
2016/11/23	MF	US2	14:04	B	7.2	337.6	0.54	25.48	28.95	86.43	6.01	6.49	7.88	11.90
2016/11/23	MF	US2	14:05	M	4.6	321.3	0.59	25.45	28.51	86.14	6.01	5.19	7.87	8.20
2016/11/23	MF	US2	14:06	T	1	326.1	0.5	25.29	27.65	88.44	6.21	3	7.84	5.70
2016/11/23	MF	US1	14:10	B	7.1	264.9	0.55	25.51	28.91	87.05	6.05	7.19	7.88	#REF!
2016/11/23	MF	US1	14:11	M	4.6	326.4	0.41	25.46	28.3	86.96	6.07	4.3	7.86	#REF!
2016/11/23	MF	US1	14:12	T	1	288.2	0.66	25.3	27.46	89.36	6.28	2.9	7.84	#REF!
2016/11/23	MF	US1	14:13	B	7.1	319.3	0.54	25.52	28.88	85.96	5.97	7.29	7.88	#REF!
2016/11/23	MF	US1	14:14	M	4.5	126	0.29	25.48	28.47	86.37	6.02	4.9	7.87	#REF!
2016/11/23	MF	US1	14:15	T	1	283.7	1.17	25.28	27.48	89.47	6.29	2.9	7.85	#REF!
2016/11/23	MF	DS1	14:20	B	8.2	290.8	0.44	25.5	29.15	86.19	5.98	8.39	7.87	#REF!
2016/11/23	MF	DS1	14:21	M	4.9	244.3	0.69	25.5	28.97	85.99	5.97	6.69	7.88	#REF!

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2016/11/23	MF	DS1	14:22	T	1.1	253.8	0.67	25.67	28.15	88.4	6.15	3.4	7.83	#REF!
2016/11/23	MF	DS1	14:22	B	7.9	40.8	0.45	25.5	29.14	85.29	5.92	8.19	7.88	#REF!
2016/11/23	MF	DS1	14:23	M	5.1	301.9	0.48	25.52	28.97	85.39	5.93	6.19	7.88	#REF!
2016/11/23	MF	DS1	14:24	T	1.1	244.3	0.66	25.45	27.73	88.4	6.19	3.3	7.84	#REF!
2016/11/23	MF	DS2	14:29	B	7	277	0.84	25.49	29.14	86.02	5.97	12.69	7.88	#REF!
2016/11/23	MF	DS2	14:30	M	4.7	250.9	0.32	25.58	28.86	86.62	6.01	6.79	7.87	#REF!
2016/11/23	MF	DS2	14:30	T	1	28.8	0.55	25.63	27.97	89.03	6.21	4.3	7.83	#REF!
2016/11/23	MF	DS2	14:31	B	7	232.6	0.08	25.49	29.13	85.32	5.92	11.39	7.89	#REF!
2016/11/23	MF	DS2	14:32	M	4.5	328.4	0.77	25.6	28.81	86.53	6.01	6.09	7.87	#REF!
2016/11/23	MF	DS2	14:33	T	1.2	299.1	1.16	25.49	27.77	88.34	6.18	3.3	7.84	#REF!
2016/11/23	MF	DS3	14:37	B	7.2	299.5	0.43	25.5	29	87.35	6.07	7.99	7.87	#REF!
2016/11/23	MF	DS3	14:38	M	4.5	340.4	0.63	25.62	28.5	87.45	6.08	5.49	7.84	#REF!
2016/11/23	MF	DS3	14:38	T	1	230.4	0.52	25.45	27.54	89.26	6.26	3.6	7.82	#REF!
2016/11/23	MF	DS3	14:39	B	6.9	67.5	0.24	25.5	29.02	86.05	5.98	8.29	7.88	#REF!
2016/11/23	MF	DS3	14:40	M	4.6	318.5	0.61	25.62	28.5	86.95	6.05	5.89	7.85	#REF!
2016/11/23	MF	DS3	14:40	T	1.2	216.2	1.52	25.5	27.75	88.86	6.22	3.6	7.82	#REF!
2016/11/23	MF	DS4	14:45	B	7	189.1	0.2	25.62	28.47	88.38	6.15	4.7	7.85	#REF!
2016/11/23	MF	DS4	14:45	M	4.6	337.6	0.47	25.61	28.02	89.58	6.25	3.7	7.83	#REF!
2016/11/23	MF	DS4	14:46	T	1.2	30.8	0.25	25.45	27.69	90.69	6.35	2.8	7.83	#REF!
2016/11/23	MF	DS4	14:47	B	7.2	91.4	0.16	25.5	29.04	87.08	6.05	7.09	7.88	#REF!
2016/11/23	MF	DS4	14:47	M	4.6	340.5	0.34	25.6	28.09	88.69	6.18	3.5	7.83	#REF!
2016/11/23	MF	DS4	14:48	T	1.1	313.5	0.51	25.5	27.78	90.09	6.3	2.9	7.83	#REF!
2016/11/23	MF	DS5	14:52	B	8.1	315.9	0.81	25.62	28.28	88.1	6.13	4.2	7.83	#REF!
2016/11/23	MF	DS5	14:53	M	5.1	269.3	0.42	25.62	27.83	88.91	6.2	2.7	7.82	#REF!
2016/11/23	MF	DS5	14:53	T	1.2	321	1.04	25.39	26.75	89.21	6.29	2.4	7.78	#REF!
2016/11/23	MF	DS5	14:54	B	7.9	297.6	1.16	25.63	28.23	87.1	6.06	3.9	7.83	#REF!