

Impact Water Quality Monitoring for Dredging Activities

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)
07/11/2012	MF	US1	14:14:26	B	12.0	269.6	0.61	24.96	30.21	92.6	6.45	13.0	8.07	17
07/11/2012	MF	US1	14:15:02	M	6.7	282.3	0.29	24.97	30.21	93.0	6.48	7.1	8.05	10
07/11/2012	MF	US1	14:15:46	T	1.0	284.8	0.42	25.00	30.13	94.1	6.55	5.2	8.03	5
07/11/2012	MF	US1	14:18:37	B	11.7	333.3	0.34	24.96	30.25	92.1	6.41	10.4	8.09	17
07/11/2012	MF	US1	14:19:14	M	6.4	316.9	0.20	24.96	30.25	92.4	6.43	8.3	8.08	10
07/11/2012	MF	US1	14:19:54	T	1.0	283.2	0.12	24.96	30.25	92.8	6.46	7.1	8.07	5
07/11/2012	MF	US2	14:25:17	B	6.0	11.5	0.54	24.90	30.31	91.9	6.40	7.7	8.11	7
07/11/2012	MF	US2	14:25:50	M	3.3	297.8	0.46	24.91	30.32	91.5	6.38	7.2	8.10	7
07/11/2012	MF	US2	14:26:29	T	1.1	323.7	0.58	24.92	30.31	92.0	6.41	5.8	8.08	6
07/11/2012	MF	US2	14:29:28	B	6.1	319.0	0.62	24.90	30.32	91.4	6.37	8.0	8.09	9
07/11/2012	MF	US2	14:30:03	M	3.5	312.7	0.21	24.91	30.32	91.3	6.36	6.3	8.08	8
07/11/2012	MF	US2	14:30:35	T	1.0	321.6	0.77	24.91	30.31	91.5	6.38	6.0	8.07	6
07/11/2012	MF	DS1	14:03:40	B	6.9	278.7	0.38	24.87	30.22	91.4	6.37	10.7	8.14	11
07/11/2012	MF	DS1	14:04:12	M	4.1	263.5	0.26	24.98	30.05	92.5	6.44	6.4	8.12	8
07/11/2012	MF	DS1	14:04:46	T	1.0	351.3	0.27	25.03	30.05	93.2	6.49	4.9	8.11	7
07/11/2012	MF	DS1	14:07:37	B	7.0	307.4	0.05	24.87	30.21	91.3	6.37	9.6	8.14	12
07/11/2012	MF	DS1	14:08:16	M	3.9	268.1	0.22	24.96	30.06	92.2	6.42	6.7	8.11	9
07/11/2012	MF	DS1	14:09:03	T	1.1	178.0	1.16	25.00	30.06	92.6	6.45	5.4	8.10	6
07/11/2012	MF	DS2	13:55:10	B	6.8	37.7	0.18	24.91	29.99	92.8	6.48	10.6	8.15	13
07/11/2012	MF	DS2	13:55:46	M	4.1	254.3	0.47	24.92	29.99	92.7	6.47	8.2	8.13	9
07/11/2012	MF	DS2	13:56:23	T	1.0	286.8	0.65	24.93	29.99	92.8	6.48	7.3	8.11	8
07/11/2012	MF	DS2	13:57:03	B	7.0	265.8	0.39	24.91	29.99	92.5	6.46	9.0	8.11	14
07/11/2012	MF	DS2	13:57:47	M	3.9	258.0	0.69	24.93	29.99	92.9	6.48	7.3	8.11	8
07/11/2012	MF	DS2	13:58:22	T	1.0	254.0	0.74	24.93	29.99	93.0	6.48	6.4	8.11	9
07/11/2012	MF	DS3	13:44:13	B	6.0	324.8	0.28	24.85	29.93	92.5	6.46	7.5	8.15	8
07/11/2012	MF	DS3	13:44:42	M	3.5	296.1	0.25	24.97	29.83	92.7	6.47	4.8	8.12	6
07/11/2012	MF	DS3	13:45:22	T	1.0	272.7	0.17	24.98	29.82	92.8	6.48	4.2	8.11	5
07/11/2012	MF	DS3	13:48:19	B	6.0	291.2	0.19	24.93	29.86	93.3	6.51	6.0	8.16	8
07/11/2012	MF	DS3	13:48:56	M	3.6	265.8	0.59	24.97	29.84	93.1	6.50	5.1	8.13	7
07/11/2012	MF	DS3	13:49:27	T	0.9	265.5	0.28	24.98	29.83	93.3	6.51	4.8	8.12	5
07/11/2012	MF	DS4	13:33:20	B	7.0	293.4	0.46	24.87	29.86	92.3	6.45	4.8	8.15	4
07/11/2012	MF	DS4	13:33:52	M	3.9	321.9	0.47	24.93	29.84	92.0	6.42	4.2	8.13	6
07/11/2012	MF	DS4	13:34:37	T	1.0	171.0	0.20	24.95	29.83	92.4	6.45	3.9	8.12	3
07/11/2012	MF	DS4	13:37:50	B	7.2	270.6	0.28	24.78	29.92	92.2	6.45	5.4	8.17	6
07/11/2012	MF	DS4	13:38:26	M	3.9	253.5	0.35	24.86	29.87	92.0	6.43	4.7	8.14	5
07/11/2012	MF	DS4	13:39:00	T	1.2	283.8	0.36	24.93	29.84	92.4	6.45	3.8	8.13	5
07/11/2012	MF	DS5	13:21:27	B	6.8	8.5	0.33	24.87	30.08	87.6	6.12	8.8	8.12	9
07/11/2012	MF	DS5	13:22:41	M	4.0	257.2	0.50	25.11	29.61	90.2	6.29	4.4	8.10	6
07/11/2012	MF	DS5	13:23:20	T	1.1	300.8	0.49	25.14	29.59	90.7	6.32	3.5	8.09	4
07/11/2012	MF	DS5	13:26:53	B	7.0	310.2	0.16	24.86	30.14	88.5	6.18	7.9	8.17	9
07/11/2012	MF	DS5	13:27:29	M	4.0	283.5	0.53	25.05	29.70	90.3	6.29	5.0	8.12	7
07/11/2012	MF	DS5	13:28:01	T	0.9	290.9	0.18	25.13	29.62	91.5	6.37	3.4	8.11	6
07/11/2012	MF	MW1	15:25:56	B	19.2	90.2	0.30	25.09	31.23	84.2	5.81	6.7	7.73	7
07/11/2012	MF	MW1	15:26:41	M	10.0	63.2	0.55	25.08	31.21	84.6	5.84	4.4	7.80	7
07/11/2012	MF	MW1	15:27:32	T	0.9	110.9	0.10	25.09	31.20	85.4	5.90	3.8	7.74	4
07/11/2012	MF	MW1	15:28:20	B	19.0	11.2	0.26	25.09	31.27	83.4	5.76	7.0	7.75	7
07/11/2012	MF	MW1	15:29:06	M	10.2	356.9	0.15	25.08	31.24	84.1	5.81	5.2	7.73	6
07/11/2012	MF	MW1	15:29:54	T	0.8	37.3	0.32	25.08	31.20	85.2	5.89	3.5	7.74	4

Impact Water Quality Monitoring for Dredging Activities

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)
07/11/2012	ME	US1	05:51:23	B	8.1	129.5	0.15	24.95	30.38	89.4	6.22	6.2	7.67	7
07/11/2012	ME	US1	05:51:54	M	4.5	121.1	0.36	24.85	30.03	89.9	6.28	4.4	7.67	3
07/11/2012	ME	US1	05:52:40	T	1.2	17.3	0.15	24.70	29.79	92.1	6.45	3.0	7.63	2
07/11/2012	ME	US1	05:53:18	B	8.2	201.3	0.29	24.94	30.38	89.9	6.26	6.1	7.67	7
07/11/2012	ME	US1	05:54:02	M	4.5	66.0	0.40	24.69	29.78	92.9	6.51	2.6	7.67	3
07/11/2012	ME	US1	05:54:35	T	1.1	99.3	0.14	24.69	29.78	93.3	6.54	2.5	7.67	2
07/11/2012	ME	US2	05:40:49	B	7.2	116.0	0.26	25.02	30.44	85.6	5.95	5.9	7.60	6
07/11/2012	ME	US2	05:41:47	M	4.2	130.6	0.30	24.91	30.22	88.9	6.19	4.3	7.63	4
07/11/2012	ME	US2	05:42:46	T	1.2	133.1	0.44	24.72	29.68	93.5	6.55	2.4	7.63	4
07/11/2012	ME	US2	05:45:11	B	7.1	138.0	0.35	25.04	30.47	85.1	5.91	6.0	7.62	6
07/11/2012	ME	US2	05:45:43	M	4.3	96.8	0.48	24.81	29.93	90.3	6.32	3.7	7.65	4
07/11/2012	ME	US2	05:46:16	T	1.0	98.8	0.43	24.73	29.74	93.1	6.53	2.6	7.65	3
07/11/2012	ME	DS1	05:58:53	B	6.9	117.7	0.66	24.95	30.44	90.2	6.27	7.4	7.66	10
07/11/2012	ME	DS1	05:59:28	M	4.0	89.8	0.25	24.69	29.82	91.1	6.39	3.7	7.65	3
07/11/2012	ME	DS1	06:00:16	T	1.0	122.2	0.50	24.65	29.80	92.8	6.51	2.8	7.66	3
07/11/2012	ME	DS1	06:00:55	B	7.1	118.1	0.57	24.94	30.42	90.2	6.28	6.5	7.69	9
07/11/2012	ME	DS1	06:01:32	M	4.0	143.0	0.18	24.67	29.81	92.1	6.46	3.2	7.68	3
07/11/2012	ME	DS1	06:02:06	T	1.2	95.8	0.27	24.65	29.80	92.8	6.51	2.7	7.68	3
07/11/2012	ME	DS2	06:06:52	B	7.1	107.5	0.19	24.95	30.39	90.8	6.32	21.6	7.70	11
07/11/2012	ME	DS2	06:07:32	M	4.1	93.2	0.23	24.68	29.91	91.8	6.44	3.8	7.67	4
07/11/2012	ME	DS2	06:08:15	T	1.1	156.4	0.24	24.67	29.90	92.2	6.46	2.9	7.66	2
07/11/2012	ME	DS2	06:09:41	B	7.6	96.6	0.11	24.95	30.41	90.1	6.27	9.9	7.69	12
07/11/2012	ME	DS2	06:10:21	M	4.0	114.0	0.24	24.68	29.90	92.0	6.45	3.4	7.68	3
07/11/2012	ME	DS2	06:10:53	T	1.0	343.1	0.38	24.67	29.90	92.2	6.46	2.7	7.68	2
07/11/2012	ME	DS3	06:15:21	B	6.1	131.0	0.59	24.95	30.42	88.9	6.18	8.2	7.71	3
07/11/2012	ME	DS3	06:15:56	M	3.5	114.0	0.19	24.70	29.97	91.2	6.39	3.8	7.69	3
07/11/2012	ME	DS3	06:16:40	T	1.0	114.0	0.45	24.68	29.97	91.8	6.43	3.1	7.68	4
07/11/2012	ME	DS3	06:17:21	B	6.1	105.5	0.28	24.94	30.32	88.8	6.18	6.3	7.68	3
07/11/2012	ME	DS3	06:17:57	M	3.5	244.5	0.02	24.68	29.96	91.5	6.41	3.4	7.69	3
07/11/2012	ME	DS3	06:18:30	T	1.0	65.9	0.38	24.67	29.96	91.9	6.44	3.0	7.68	3
07/11/2012	ME	DS4	06:23:32	B	5.2	90.0	0.46	24.95	30.32	87.7	6.10	5.7	7.65	8
07/11/2012	ME	DS4	06:24:04	M	3.1	119.8	0.41	24.66	29.99	90.5	6.34	3.8	7.68	3
07/11/2012	ME	DS4	06:24:44	T	1.1	44.5	0.25	24.65	29.98	91.2	6.40	3.2	7.68	3
07/11/2012	ME	DS4	06:25:20	B	5.1	100.9	0.39	24.95	30.30	87.0	6.05	5.7	7.67	8
07/11/2012	ME	DS4	06:25:59	M	3.0	35.3	0.40	24.67	30.00	90.7	6.36	3.5	7.69	4
07/11/2012	ME	DS4	06:26:31	T	1.2	98.8	0.43	24.65	29.99	91.3	6.40	3.3	7.69	4
07/11/2012	ME	DS5	06:31:28	B	6.1	142.6	0.41	24.81	30.13	89.0	6.21	5.7	7.68	6
07/11/2012	ME	DS5	06:31:59	M	3.5	155.5	0.18	24.81	30.13	88.7	6.19	5.1	7.67	4
07/11/2012	ME	DS5	06:32:38	T	1.0	114.5	0.37	24.64	29.99	90.9	6.38	3.4	7.67	4
07/11/2012	ME	DS5	06:33:15	B	6.0	152.3	0.50	24.81	30.13	88.7	6.20	4.8	7.67	8
07/11/2012	ME	DS5	06:33:54	M	3.4	119.0	0.41	24.65	29.99	90.8	6.37	3.7	7.68	4
07/11/2012	ME	DS5	06:34:24	T	1.1	146.7	0.19	24.65	30.00	91.0	6.38	3.3	7.67	3
07/11/2012	ME	MW1	04:30:09	B	19.3	69.6	0.11	25.07	31.25	83.6	5.78	2.6	7.28	3
07/11/2012	ME	MW1	04:31:07	M	9.9	357.0	0.33	25.07	31.23	83.3	5.76	2.4	7.48	3
07/11/2012	ME	MW1	04:31:55	T	1.2	13.0	0.01	25.07	31.20	83.5	5.77	2.2	7.52	2
07/11/2012	ME	MW1	04:32:55	B	19.3	69.6	0.11	25.06	31.22	82.8	5.73	2.4	7.62	3
07/11/2012	ME	MW1	04:33:43	M	10.1	4.2	0.21	25.08	31.22	82.8	5.72	2.3	7.61	4
07/11/2012	ME	MW1	04:34:26	T	1.1	148.8	0.37	25.03	31.16	83.6	5.78	2.1	7.60	3