

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)
2012/07/07	MF	DS1	10:12:12	B	9.2	285.0	0.30	27.49	23.01	69.0	4.79	21.2	7.68	30
2012/07/07	MF	DS1	10:12:45	M	4.9	316.0	0.47	28.61	15.27	77.0	5.48	9.5	7.66	28
2012/07/07	MF	DS1	10:13:27	T	1.2	326.8	0.31	28.70	15.22	79.9	5.68	6.1	7.67	10
2012/07/07	MF	DS1	10:16:31	B	9.2	242.6	0.27	27.50	23.27	69.0	4.78	18.6	7.68	11
2012/07/07	MF	DS1	10:17:10	M	5.2	320.3	0.61	28.47	15.97	75.1	5.34	8.2	7.65	10
2012/07/07	MF	DS1	10:17:41	T	1.0	357.9	0.35	28.64	15.33	78.8	5.60	5.7	7.67	11
2012/07/07	MF	DS2	9:59:54	B	12.1	234.3	0.29	27.63	22.14	67.5	4.70	37.5	7.68	43
2012/07/07	MF	DS2	10:01:17	M	6.5	225.2	0.42	28.06	18.79	69.3	4.88	18.3	7.66	43
2012/07/07	MF	DS2	10:02:19	T	1.1	300.0	0.52	28.57	14.10	75.9	5.44	5.8	7.64	19
2012/07/07	MF	DS2	10:05:03	B	11.9	42.5	0.18	27.64	22.03	68.5	4.77	40.9	7.68	19
2012/07/07	MF	DS2	10:05:40	M	6.6	246.5	0.27	28.06	18.71	69.6	4.90	21.6	7.66	7
2012/07/07	MF	DS2	10:06:14	T	1.0	321.4	0.59	28.47	14.85	74.5	5.32	8.0	7.64	7
2012/07/07	MF	DS3	9:43:59	B	27.8	149.8	0.25	26.55	27.12	29.3	2.02	8.4	7.43	22
2012/07/07	MF	DS3	9:46:07	M	15.1	346.9	0.06	27.92	21.55	64.4	4.48	17.5	7.62	22
2012/07/07	MF	DS3	9:47:37	T	1.2	270.1	0.65	28.46	14.75	72.8	5.21	7.1	7.60	27
2012/07/07	MF	DS3	9:51:49	B	27.6	253.0	0.32	26.63	26.77	33.1	2.28	9.2	7.47	28
2012/07/07	MF	DS3	9:52:38	M	15.2	276.3	0.01	27.88	21.80	63.6	4.42	17.4	7.64	14
2012/07/07	MF	DS3	9:53:36	T	1.2	286.0	0.90	28.53	14.31	74.0	5.30	8.2	7.61	15
2012/07/07	MF	DS4	9:30:32	B	10.1	311.8	0.64	28.05	19.42	69.7	4.90	11.6	7.57	25
2012/07/07	MF	DS4	9:31:12	M	5.5	285.3	0.78	28.24	17.35	70.5	4.99	8.5	7.57	24
2012/07/07	MF	DS4	9:31:52	T	1.1	316.4	0.91	28.49	14.31	72.6	5.20	8.6	7.55	11
2012/07/07	MF	DS4	9:35:24	B	10.0	298.9	0.29	28.06	19.38	69.2	4.86	12.4	7.60	11
2012/07/07	MF	DS4	9:36:04	M	5.6	287.3	1.06	28.31	16.62	71.0	5.04	7.3	7.59	12
2012/07/07	MF	DS4	9:36:37	T	1.1	276.8	0.74	28.45	14.77	71.6	5.13	9.2	7.58	14
2012/07/07	MF	DS5	9:19:06	B	11.0	286.3	0.57	27.98	20.05	67.3	4.71	12.6	7.53	16
2012/07/07	MF	DS5	9:19:48	M	6.0	289.6	0.76	28.32	17.84	69.9	4.92	9.7	7.55	15
2012/07/07	MF	DS5	9:20:34	T	0.9	330.8	0.61	28.55	13.65	75.2	5.41	8.5	7.53	15
2012/07/07	MF	DS5	9:23:33	B	11.0	330.8	0.64	27.90	20.38	65.7	4.60	13.0	7.55	16
2012/07/07	MF	DS5	9:24:13	M	6.0	262.3	0.67	28.28	17.48	69.5	4.91	8.3	7.55	10
2012/07/07	MF	DS5	9:24:49	T	0.9	295.6	0.64	28.54	13.36	74.9	5.39	7.7	7.54	12
2012/07/07	MF	MW1	7:50:29	B	17.9	32.2	0.50	26.94	26.33	62.7	4.31	6.1	7.45	9
2012/07/07	MF	MW1	7:51:55	M	10.0	4.3	0.16	27.63	22.04	68.0	4.74	4.5	7.48	9
2012/07/07	MF	MW1	7:52:45	T	0.9	217.9	0.34	28.43	15.15	76.3	5.45	4.5	7.47	7
2012/07/07	MF	MW1	7:54:00	B	18.1	126.4	0.37	26.65	27.37	59.1	4.06	7.5	7.47	8
2012/07/07	MF	MW1	7:54:49	M	10.1	150.6	0.29	27.69	21.30	68.0	4.75	4.9	7.50	11
2012/07/07	MF	MW1	7:55:48	T	1.0	266.1	0.35	28.39	15.74	76.4	5.44	4.3	7.51	11
2012/07/07	MF	US1	10:25:22	B	8.3	270.7	0.25	27.51	24.78	68.8	4.73	17.5	7.66	14
2012/07/07	MF	US1	10:25:52	M	4.6	318.3	0.62	28.33	16.65	72.8	5.17	9.3	7.64	12
2012/07/07	MF	US1	10:26:30	T	1.0	354.7	0.40	28.84	15.17	80.1	5.68	5.6	7.66	14
2012/07/07	MF	US1	10:27:15	M	8.2	342.4	0.64	27.56	23.44	67.6	4.68	15.9	7.67	14
2012/07/07	MF	US1	10:27:51	M	4.5	16.6	0.25	28.26	17.23	71.5	5.06	10.5	7.64	7
2012/07/07	MF	US1	10:28:21	T	0.9	356.2	0.31	28.64	15.51	77.9	5.53	6.9	7.65	6
2012/07/07	MF	US2	10:34:28	B	8.0	335.7	0.03	27.60	22.39	68.0	4.73	31.5	7.64	34
2012/07/07	MF	US2	10:35:00	M	4.5	329.2	0.52	28.36	16.30	73.2	5.20	10.7	7.62	35
2012/07/07	MF	US2	10:35:41	T	1.0	293.9	0.45	28.46	15.61	74.8	5.32	5.7	7.62	16
2012/07/07	MF	US2	10:37:58	B	8.2	335.7	0.03	27.62	22.30	67.7	4.71	42.4	7.64	16
2012/07/07	MF	US2	10:38:31	M	4.4	292.6	0.19	28.39	16.11	73.3	5.21	10.7	7.62	8
2012/07/07	MF	US2	10:39:07	T	0.9	339.7	0.55	28.68	14.76	78.1	5.57	5.5	7.63	7

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2012/07/07	ME	DS1	14:53:28	B	6.9	89.8	0.35	28.16	19.23	71.2	4.99	54.4	7.58	52
2012/07/07	ME	DS1	14:53:59	M	4.0	83.0	0.78	28.35	17.37	71.8	5.07	21.4	7.55	55
2012/07/07	ME	DS1	14:54:40	T	1.0	91.6	0.71	29.14	13.73	85.5	6.08	6.3	7.61	18
2012/07/07	ME	DS1	15:00:55	B	6.8	86.1	0.60	28.13	19.40	70.9	4.97	58.1	7.65	19
2012/07/07	ME	DS1	15:01:34	M	4.1	86.8	0.65	28.69	15.53	75.1	5.33	13.1	7.59	6
2012/07/07	ME	DS1	15:02:08	T	1.0	102.1	0.72	29.52	13.26	86.2	6.11	5.9	7.65	4
2012/07/07	ME	DS2	15:06:33	B	7.2	74.9	0.50	28.10	19.79	70.3	4.92	53.3	7.60	37
2012/07/07	ME	DS2	15:07:13	M	4.0	92.0	0.78	28.41	16.79	72.2	5.11	14.9	7.57	36
2012/07/07	ME	DS2	15:07:52	T	1.0	95.6	0.86	29.16	13.66	86.1	6.12	5.5	7.63	12
2012/07/07	ME	DS2	15:10:00	B	7.2	77.1	0.51	28.16	19.61	72.5	5.07	27.5	7.59	14
2012/07/07	ME	DS2	15:10:40	M	4.2	117.7	0.92	28.62	15.99	75.4	5.34	10.7	7.57	14
2012/07/07	ME	DS2	15:11:13	T	1.1	124.6	0.48	29.23	13.51	86.0	6.12	5.5	7.63	14
2012/07/07	ME	DS3	15:15:51	B	6.9	77.6	0.65	28.00	20.27	67.6	4.72	56.3	7.57	51
2012/07/07	ME	DS3	15:16:53	M	3.8	80.8	0.88	28.35	18.30	70.8	4.97	20.1	7.59	52
2012/07/07	ME	DS3	15:17:37	T	1.0	111.6	0.87	29.12	13.85	84.8	6.03	5.7	7.62	13
2012/07/07	ME	DS3	15:21:12	B	7.0	92.2	0.72	28.06	20.03	68.4	4.78	34.1	7.60	14
2012/07/07	ME	DS3	15:21:51	M	4.0	114.0	1.00	28.42	16.59	72.1	5.11	10.3	7.58	7
2012/07/07	ME	DS3	15:22:20	T	0.9	111.1	0.99	29.28	13.47	85.3	6.06	5.5	7.64	8
2012/07/07	ME	DS4	15:27:37	B	7.0	108.6	0.58	28.02	20.11	68.0	4.76	47.2	7.60	60
2012/07/07	ME	DS4	15:28:06	M	4.0	79.5	0.74	28.36	17.41	71.5	5.05	18.5	7.60	58
2012/07/07	ME	DS4	15:28:44	T	1.0	90.1	0.76	29.13	13.86	85.1	6.05	5.7	7.64	18
2012/07/07	ME	DS4	15:31:19	B	6.9	89.3	0.61	28.16	19.45	69.4	4.86	25.1	7.65	16
2012/07/07	ME	DS4	15:32:04	M	4.0	128.7	0.75	28.35	17.35	72.2	5.10	11.7	7.63	11
2012/07/07	ME	DS4	15:32:36	T	1.0	118.6	1.05	29.26	13.56	86.2	6.12	5.4	7.67	11
2012/07/07	ME	DS5	15:36:50	B	9.1	111.0	0.69	28.02	20.09	68.3	4.78	39.0	7.60	60
2012/07/07	ME	DS5	15:37:24	M	4.9	99.1	0.85	28.30	18.92	69.6	4.88	24.0	7.61	50
2012/07/07	ME	DS5	15:38:02	T	1.0	105.4	0.89	29.15	13.81	84.9	6.03	6.3	7.65	28
2012/07/07	ME	DS5	15:40:10	B	9.0	117.5	0.65	28.06	19.92	69.6	4.87	31.2	7.62	28
2012/07/07	ME	DS5	15:40:48	M	5.0	97.6	0.78	28.38	17.42	72.7	5.13	13.6	7.62	7
2012/07/07	ME	DS5	15:41:18	T	1.0	85.9	0.91	29.27	13.63	85.1	6.04	6.1	7.66	7
2012/07/07	ME	MW1	16:21:08	B	18.1	101.6	0.11	28.33	18.40	75.0	5.27	5.5	7.60	13
2012/07/07	ME	MW1	16:21:52	M	9.6	180.9	0.54	28.50	17.68	76.6	5.39	4.9	7.61	12
2012/07/07	ME	MW1	16:22:37	T	1.0	344.2	0.64	29.22	15.63	85.7	6.02	4.2	7.66	12
2012/07/07	ME	MW1	16:26:38	B	18.1	40.1	0.28	28.20	18.95	73.4	5.15	6.5	7.59	12
2012/07/07	ME	MW1	16:27:18	M	9.4	29.7	0.17	28.52	17.51	75.7	5.33	5.7	7.60	7
2012/07/07	ME	MW1	16:28:00	T	1.1	23.1	0.44	28.62	17.17	77.6	5.46	5.3	7.61	7
2012/07/07	ME	US1	14:43:39	B	7.9	116.7	0.23	28.13	18.95	68.6	4.82	45.3	7.52	77
2012/07/07	ME	US1	14:44:10	M	4.4	89.4	0.54	28.29	17.39	69.8	4.93	19.6	7.51	21
2012/07/07	ME	US1	14:44:52	T	1.1	136.5	0.71	29.20	13.63	84.9	6.04	6.2	7.57	22
2012/07/07	ME	US1	14:47:36	B	7.9	107.2	0.11	28.12	18.98	69.5	4.88	40.3	7.53	23
2012/07/07	ME	US1	14:48:14	M	4.3	92.7	0.45	28.25	17.67	69.7	4.92	17.8	7.53	17
2012/07/07	ME	US1	14:48:44	T	0.8	100.7	0.71	29.32	13.34	83.6	5.94	7.4	7.59	18
2012/07/07	ME	US2	14:32:07	B	12.0	90.0	0.10	27.96	20.10	66.2	4.63	22.2	7.47	25
2012/07/07	ME	US2	14:32:51	M	6.6	91.8	0.57	28.22	17.99	68.7	4.84	18.6	7.48	26
2012/07/07	ME	US2	14:33:35	T	1.0	120.0	0.85	29.18	13.29	86.2	6.14	6.1	7.55	17
2012/07/07	ME	US2	14:34:17	B	11.7	344.1	0.10	27.96	20.12	66.6	4.66	21.0	7.48	17
2012/07/07	ME	US2	14:34:55	M	6.5	97.9	0.62	28.22	17.91	68.7	4.85	18.8	7.49	6
2012/07/07	ME	US2	14:35:30	T	0.9	114.1	0.68	29.21	13.29	84.5	6.02	6.8	7.55	5