

Impact Water Quality Monitoring for Dredging Activities at SB CMP 2

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)
2013/10/14	MF	DS1	14:41:12	B	2.2	26.0	0.05	27.56	27.77	105.73	7.14	10.58	7.89	6
2013/10/14	MF	DS1	14:42:13	T	1.0	191.0	0.67	27.56	27.77	105.82	7.15	10.88	7.90	6
2013/10/14	MF	DS1	14:43:11	B	2.1	317.3	0.72	27.55	27.78	105.92	7.16	11.38	7.91	5
2013/10/14	MF	DS1	14:44:22	T	1.0	298.8	1.01	27.55	27.78	105.60	7.14	11.88	7.91	6
2013/10/14	MF	DS1	14:45:28	B	2.1	317.3	0.72	27.55	27.78	105.49	7.13	11.28	7.91	5
2013/10/14	MF	DS1	14:46:10	T	1.1	346.3	0.54	27.55	27.78	105.39	7.12	11.58	7.91	6
2013/10/14	MF	DS2	15:05:58	B	1.9	292.2	0.70	27.61	27.75	109.48	7.39	9.38	7.96	6
2013/10/14	MF	DS2	15:06:24	T	1.2	274.9	0.78	27.61	27.75	109.68	7.40	10.28	7.96	5
2013/10/14	MF	DS2	15:07:23	B	2.1	10.6	0.41	27.61	27.74	109.77	7.41	9.88	7.96	5
2013/10/14	MF	DS2	15:08:29	T	1.1	274.9	0.78	27.61	27.74	109.76	7.41	9.18	7.96	4
2013/10/14	MF	DS2	15:09:16	B	2.2	202.7	0.60	27.61	27.74	109.55	7.40	10.28	7.96	4
2013/10/14	MF	DS2	15:10:09	T	1.1	274.9	0.78	27.61	27.75	109.74	7.41	10.28	7.96	4
2013/10/14	MF	DS3	15:16:18	B	2.1	63.3	0.23	27.68	27.73	108.99	7.35	12.18	7.96	6
2013/10/14	MF	DS3	15:17:16	T	1.1	290.4	0.48	27.67	27.73	109.57	7.39	9.78	7.96	6
2013/10/14	MF	DS3	15:19:13	B	2.0	212.3	0.39	27.67	27.73	109.16	7.36	10.08	7.96	7
2013/10/14	MF	DS3	15:20:08	T	1.0	283.1	0.38	27.67	27.73	109.55	7.39	9.78	7.96	6
2013/10/14	MF	DS3	15:21:07	B	2.1	302.7	0.45	27.67	27.73	109.44	7.38	9.38	7.96	6
2013/10/14	MF	DS3	15:22:11	T	1.1	185.2	0.28	27.67	27.73	109.43	7.38	9.88	7.96	7
2013/10/14	MF	DS4	15:28:47	B	2.0	85.9	1.34	27.75	27.74	107.87	7.27	12.88	7.96	7
2013/10/14	MF	DS4	15:30:57	T	0.9	236.9	0.92	27.75	27.74	108.35	7.30	16.69	7.95	6
2013/10/14	MF	DS4	15:33:08	B	2.2	332.6	1.92	27.73	27.75	108.13	7.28	13.28	7.96	7
2013/10/14	MF	DS4	15:34:19	T	0.9	3.6	0.22	27.75	27.75	109.41	7.37	11.48	7.96	6
2013/10/14	MF	DS4	15:35:08	B	2.2	180.6	0.30	27.75	27.75	109.20	7.35	12.08	7.96	6
2013/10/14	MF	DS4	15:36:06	T	1.0	152.0	0.61	27.75	27.75	109.29	7.36	12.96	7.96	6
2013/10/14	MF	DS5	15:41:58	B	3.1	36.4	0.16	27.86	27.98	103.38	6.94	14.28	7.94	8
2013/10/14	MF	DS5	15:43:33	T	0.9	308.8	0.86	27.87	27.92	104.36	7.01	13.08	7.94	8
2013/10/14	MF	DS5	15:44:26	B	3.0	270.9	0.62	27.88	27.98	103.46	6.94	13.08	7.94	9
2013/10/14	MF	DS5	15:45:10	T	0.9	245.8	0.33	27.87	27.95	103.95	6.98	12.88	7.94	8
2013/10/14	MF	DS5	15:46:21	B	3.1	174.4	0.45	27.81	27.97	101.36	6.81	14.68	7.93	9
2013/10/14	MF	DS5	15:47:11	T	1.1	272.8	0.23	27.82	27.84	104.72	7.04	10.78	7.94	8
2013/10/14	MF	US1	16:02:55	B	2.1	256.5	0.32	27.71	27.77	99.82	6.73	5.88	7.90	4
2013/10/14	MF	US1	16:03:36	T	1.0	355.6	0.58	27.76	27.52	100.41	6.77	4.37	7.91	2
2013/10/14	MF	US1	16:04:16	B	2.1	256.5	0.32	27.70	27.75	100.01	6.74	5.18	7.91	4
2013/10/14	MF	US1	16:05:17	T	1.1	278.5	0.25	27.76	27.53	100.79	6.80	4.27	7.91	2
2013/10/14	MF	US1	16:06:13	B	2.2	248.0	1.00	27.74	27.59	100.19	6.75	4.98	7.91	4
2013/10/14	MF	US1	16:07:08	T	1.1	227.8	0.87	27.76	27.51	100.58	6.78	3.97	7.91	3
2013/10/14	MF	US2	16:25:36	B	3.1	107.4	0.20	27.63	27.96	95.27	6.42	8.98	7.90	3
2013/10/14	MF	US2	16:26:20	T	1.1	280.4	0.37	27.65	27.92	95.57	6.44	6.88	7.90	3
2013/10/14	MF	US2	16:27:19	B	2.9	217.7	0.42	27.62	27.98	93.78	6.32	10.28	7.89	4
2013/10/14	MF	US2	16:28:24	T	1.1	82.8	0.44	27.70	27.75	97.03	6.54	5.28	7.91	3
2013/10/14	MF	US2	16:29:15	B	3.0	215.9	0.49	27.62	27.97	93.56	6.34	9.38	7.88	3
2013/10/14	MF	US2	16:30:07	T	1.0	202.7	0.36	27.68	27.65	99.58	6.72	3.97	7.91	3
2013/10/14	MF	MW1	16:41:09	B	19.1	318.6	0.28	27.74	30.10	84.03	5.59	8.58	7.97	6
2013/10/14	MF	MW1	16:42:10	M	10.6	214.8	0.40	27.73	29.91	84.64	5.63	5.68	7.96	5
2013/10/14	MF	MW1	16:43:09	T	1.0	78.9	0.14	27.65	28.96	87.88	5.89	2.97	7.94	4
2013/10/14	MF	MW1	16:44:19	B	19.0	305.5	0.40	27.74	30.08	83.64	5.56	8.88	7.95	6
2013/10/14	MF	MW1	16:45:10	M	10.5	327.1	0.30	27.72	29.85	84.46	5.62	5.98	7.95	5
2013/10/14	MF	MW1	16:46:09	T	1.1	329.0	0.31	27.63	28.69	87.19	5.85	2.97	7.93	3
2013/10/14	MF	MW1	16:47:29	B	19.0	177.3	0.34	27.74	30.05	83.46	5.55	7.88	7.95	6
2013/10/14	MF	MW1	16:48:14	M	10.5	327.1	0.30	27.72	29.87	84.37	5.62	6.18	7.95	5
2013/10/14	MF	MW1	16:48:59	T	1.2	103.7	0.61	27.62	28.73	87.51	5.87	3.27	7.93	3
2013/10/14	MF	THB1	15:19:04	B	3.1	207.7	0.17	27.52	27.59	100.94	6.83	10.48	8.06	10
2013/10/14	MF	THB1	15:19:59	T	1.1	207.5	0.41	27.59	27.55	101.65	6.87	7.08	8.06	8
2013/10/14	MF	THB1	15:20:59	B	3.0	171.5	0.51	27.53	27.57	99.84	6.76	11.28	8.04	11
2013/10/14	MF	THB1	15:22:04	T	1.1	207.5	0.41	27.54	27.55	100.35	6.79	10.08	8.03	9
2013/10/14	MF	THB1	15:22:59	B	3.0	171.5	0.51	27.52	27.58	99.66	6.74	10.58	8.03	10
2013/10/14	MF	THB1	15:23:59	T	1.1	338.0	0.81	27.53	27.57	100.57	6.80	10.28	8.04	7
2013/10/14	MF	THB2	14:48:04	M	1.3	40.0	0.03	27.72	27.01	99.75	6.75	6.08	7.76	4
2013/10/14	MF	THB2	14:49:04	M	1.3	40.0	0.03	27.74	27.13	98.90	6.69	6.98	7.76	3
2013/10/14	MF	THB2	14:50:03	M	1.3	40.0	0.03	27.75	27.17	96.98	6.55	7.78	7.76	4
2013/10/14	MF	WSR45C	15:46:29	B	11.9	161.0	0.62	27.60	28.31	90.16	6.07	5.88	8.03	5
2013/10/14	MF	WSR45C	15:47:19	M	7.1	252.1	0.45	27.70	27.84	95.50	6.43	3.67	8.04	4
2013/10/14	MF	WSR45C	15:48:10	T	1.1	226.9	0.47	27.72	27.79	97.92	6.60	2.27	8.02	4
2013/10/14	MF	WSR45C	15:49:29	B	11.9	234.0	0.32	27.65	28.59	86.75	5.82	6.78	7.98	7
2013/10/14	MF	WSR45C	15:50:24	M	7.1	263.5	0.17	27.70	27.83	95.11	6.41	3.37	8.00	4
2013/10/14	MF	WSR45C	15:51:24	T	1.1	288.3	0.32	27.69	27.76	99.65	6.72	2.07	8.01	3
2013/10/14	MF	WSR45C	15:52:14	B	12.1	209.0	0.21	27.66	28.72	89.08	5.98	6.68	7.97	6
2013/10/14	MF	WSR45C	15:53:09	M	6.9	213.0	0.14	27.61	28.00	91.51	6.17	4.27	7.98	4
2013/10/14	MF	WSR45C	15:54:04	T	1.1	230.1	0.34	27.69	27.81	95.24	6.42	3.07	8.00	2
2013/10/14	MF	WSR46	14:50:34	B	9.4	4.4	0.25	27.57	28.15	89.52	6.03	14.38	8.10	16
2013/10/14	MF	WSR46	14:51:34	M	5.7	248.6	0.57	27.63	27.82	90.22	6.09	6.08	8.09	6
2013/10/14	MF	WSR46	14:52:24	T	1.1	229.1	0.11	27.88	26.98	94.54	6.38	2.97	8.04	3
2013/10/14	MF	WSR46	14:53:29	B	9.3	302.9	0.60	27.58	28.20	88.83	5.98	15.49	8.03	16
2013/10/14	MF	WSR46	14:54:24	M	5.7	6.7	0.10	27.66	28.05	89.64	6.04	7.58	8.01	6
2013/10/14	MF	WSR46	14:55:19	T	1.0	330.8	0.46	27.88	27.01	95.16	6.42	3.17	8.00	2
2013/10/14	MF	WSR46	14:56:09	B	9.2	270.4	0.31	27.60	28.23	88.85	5.98	15.59	8.00	15
2013/10/14	MF	WSR46	14:57:04	M	5.6	292.2	0.81	27.66	27.94	89.86	6.05	6.98	8.00	6
2013/10/14	MF	WSR46	14:57:59	T	1.2	326.6	0.26	27.86	26.94	95.58	6.45	3.37	7.99	4

Impact Water Quality Monitoring for Dredging Activities at SB CMP 2

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)
2013/10/14	ME	DS1	7:31:31	B	2.9	323.7	0.31	27.48	28.19	90.44	6.10	7.18	7.83	5
2013/10/14	ME	DS1	7:32:25	T	1.1	183.5	0.75	27.46	28.18	90.04	6.08	6.98	7.84	4
2013/10/14	ME	DS1	7:33:17	B	3.1	97.4	0.77	27.48	28.21	89.44	6.04	6.98	7.84	4
2013/10/14	ME	DS1	7:34:07	T	1.1	183.5	0.75	27.46	28.20	89.63	6.05	6.68	7.85	4
2013/10/14	ME	DS1	7:35:10	B	3.0	97.4	0.77	27.48	28.21	89.23	6.02	6.98	7.85	5
2013/10/14	ME	DS1	7:36:27	T	1.0	183.5	0.75	27.46	28.20	89.33	6.03	7.08	7.86	4
2013/10/14	ME	DS2	7:40:41	B	3.9	329.9	0.54	27.39	28.21	90.52	6.12	5.68	7.86	5
2013/10/14	ME	DS2	7:41:39	M	2.9	65.3	0.57	27.38	28.21	89.81	6.07	5.68	7.86	4
2013/10/14	ME	DS2	7:43:05	T	1.0	166.5	0.66	27.38	28.21	89.71	6.06	5.38	7.86	4
2013/10/14	ME	DS2	7:44:15	B	3.9	39.4	0.11	27.39	28.20	89.31	6.04	5.98	7.86	6
2013/10/14	ME	DS2	7:45:08	M	3.0	344.0	0.97	27.38	28.20	89.31	6.04	5.88	7.86	4
2013/10/14	ME	DS2	7:46:08	T	1.0	36.6	0.70	27.38	28.20	89.60	6.06	5.78	7.86	5
2013/10/14	ME	DS2	7:47:08	B	4.1	61.1	0.23	27.40	28.21	89.10	6.02	6.18	7.86	6
2013/10/14	ME	DS2	7:47:55	M	3.0	314.7	0.63	27.39	28.21	89.40	6.04	5.78	7.87	4
2013/10/14	ME	DS2	7:48:43	T	0.9	36.6	0.70	27.39	28.21	89.50	6.05	5.98	7.87	4
2013/10/14	ME	DS3	7:52:46	B	7.1	354.0	0.15	27.41	28.24	91.08	6.15	5.38	7.87	3
2013/10/14	ME	DS3	7:54:02	M	4.7	57.1	0.66	27.41	28.23	89.18	6.03	4.98	7.87	3
2013/10/14	ME	DS3	7:55:26	T	1.1	19.8	0.53	27.35	28.21	89.58	6.06	5.08	7.87	2
2013/10/14	ME	DS3	7:56:33	B	7.1	354.0	0.15	27.44	28.25	88.58	5.98	5.28	7.87	3
2013/10/14	ME	DS3	7:57:30	M	4.3	125.8	0.79	27.44	28.25	88.78	5.99	5.28	7.87	3
2013/10/14	ME	DS3	7:58:41	T	1.0	19.8	0.53	27.43	28.24	89.17	6.02	5.48	7.87	2
2013/10/14	ME	DS3	7:59:31	B	6.9	48.5	0.86	27.54	28.40	86.37	5.82	7.28	7.87	3
2013/10/14	ME	DS3	8:00:10	M	4.4	284.6	0.31	27.45	28.25	86.47	5.84	7.28	7.87	3
2013/10/14	ME	DS3	8:01:09	T	1.1	19.8	0.53	27.44	28.24	89.07	6.01	5.38	7.87	3
2013/10/14	ME	DS4	8:06:15	B	5.0	113.6	0.75	27.55	28.43	86.06	5.79	6.28	7.87	3
2013/10/14	ME	DS4	8:07:33	M	3.4	2.6	0.39	27.50	28.36	87.65	5.91	5.38	7.87	6
2013/10/14	ME	DS4	8:08:09	T	1.0	82.9	0.57	27.44	28.27	88.25	5.96	5.48	7.88	3
2013/10/14	ME	DS4	8:09:10	B	5.0	49.1	0.44	27.52	28.37	87.25	5.88	5.68	7.87	7
2013/10/14	ME	DS4	8:10:07	M	3.4	2.6	0.39	27.46	28.30	87.75	5.92	5.38	7.87	3
2013/10/14	ME	DS4	8:11:07	T	1.0	358.1	0.51	27.39	28.22	88.94	6.01	5.38	7.88	3
2013/10/14	ME	DS4	8:12:15	B	5.1	85.2	1.10	27.56	28.33	87.04	5.86	5.68	7.87	7
2013/10/14	ME	DS4	8:13:33	M	3.4	351.5	0.11	27.44	28.28	88.24	5.96	5.28	7.87	2
2013/10/14	ME	DS4	8:14:19	T	1.0	358.1	0.51	27.34	28.19	89.33	6.04	4.87	7.87	2
2013/10/14	ME	DS5	8:18:12	B	5.9	24.0	0.39	27.55	28.57	88.02	5.92	6.08	7.86	4
2013/10/14	ME	DS5	8:19:08	M	3.6	91.4	1.15	27.44	28.33	88.42	5.97	4.98	7.87	3
2013/10/14	ME	DS5	8:24:38	T	1.3	67.4	0.97	27.38	28.25	88.81	6.00	5.18	7.87	2
2013/10/14	ME	DS5	8:25:44	B	6.0	80.0	0.22	27.60	28.72	84.11	5.65	7.18	7.86	4
2013/10/14	ME	DS5	8:26:46	M	4.0	43.6	0.24	27.44	28.30	87.80	5.93	5.08	7.87	4
2013/10/14	ME	DS5	8:27:48	T	1.2	53.2	0.58	27.38	28.25	88.90	6.01	5.08	7.87	2
2013/10/14	ME	DS5	8:28:43	B	6.1	25.1	0.88	27.61	28.69	84.41	5.67	7.48	7.86	4
2013/10/14	ME	DS5	8:29:34	M	3.9	46.5	0.43	27.45	28.33	87.60	5.91	5.58	7.87	3
2013/10/14	ME	DS5	8:30:08	T	1.2	53.6	1.24	27.40	28.26	87.70	5.92	5.68	7.87	3
2013/10/14	ME	US1	8:49:55	B	3.2	37.0	0.70	27.81	27.81	97.32	6.59	9.58	7.89	7
2013/10/14	ME	US1	8:50:38	T	1.1	132.2	0.14	27.48	27.78	96.92	6.56	7.38	7.90	4
2013/10/14	ME	US1	8:52:42	B	3.0	113.6	0.78	27.42	27.78	96.61	6.53	8.08	7.90	8
2013/10/14	ME	US1	8:53:23	T	1.3	8.3	0.12	27.50	27.78	97.01	6.56	7.68	7.90	4
2013/10/14	ME	US1	8:56:09	B	3.0	149.0	0.34	27.50	27.78	97.00	6.56	7.88	7.90	8
2013/10/14	ME	US1	8:57:13	T	1.1	211.2	0.60	27.60	27.78	97.20	6.57	7.38	7.90	4
2013/10/14	ME	US2	9:19:43	B	2.1	204.1	0.25	27.50	27.79	98.93	6.67	11.18	7.92	6
2013/10/14	ME	US2	9:20:34	T	1.0	176.6	0.33	27.65	27.78	98.03	6.61	12.28	7.91	7
2013/10/14	ME	US2	9:21:47	B	2.0	35.3	0.45	27.65	27.78	97.63	6.59	11.78	7.91	6
2013/10/14	ME	US2	9:22:24	T	1.1	22.1	0.73	27.66	27.79	97.83	6.60	12.18	7.91	5
2013/10/14	ME	US2	9:23:29	B	2.0	26.6	0.39	27.68	27.79	97.82	6.60	12.58	7.91	6
2013/10/14	ME	US2	9:24:21	T	1.0	348.7	0.50	27.68	27.80	98.02	6.61	12.48	7.91	6
2013/10/14	ME	MW1	7:24:39	B	19.1	358.4	0.42	27.75	30.34	83.16	5.52	4.77	8.03	5
2013/10/14	ME	MW1	7:25:40	M	10.3	284.5	0.44	27.73	30.34	83.17	5.52	3.87	8.04	5
2013/10/14	ME	MW1	7:26:44	T	1.0	191.0	0.32	27.70	30.30	83.67	5.56	2.87	8.02	3
2013/10/14	ME	MW1	7:27:54	B	19.0	81.5	1.01	27.75	30.39	82.38	5.47	4.47	8.03	4
2013/10/14	ME	MW1	7:28:39	M	10.4	348.3	0.52	27.74	30.37	82.88	5.50	3.77	8.03	5
2013/10/14	ME	MW1	7:29:29	T	1.1	340.7	0.34	27.70	30.30	83.69	5.56	2.67	8.02	3
2013/10/14	ME	MW1	7:30:44	B	19.2	342.4	0.36	27.73	30.35	82.39	5.47	3.97	8.03	5
2013/10/14	ME	MW1	7:31:29	M	10.7	74.5	0.50	27.73	30.34	82.89	5.50	3.47	8.03	3
2013/10/14	ME	MW1	7:32:14	T	0.9	49.2	0.59	27.68	30.22	83.70	5.57	2.67	8.03	3
2013/10/14	ME	THB1	8:40:19	B	3.1	88.4	0.22	27.53	27.66	95.59	6.46	6.08	8.00	5
2013/10/14	ME	THB1	8:41:04	T	1.1	278.6	0.47	27.54	27.66	95.40	6.45	6.08	7.99	5
2013/10/14	ME	THB1	8:41:59	B	3.1	221.7	0.32	27.54	27.65	94.70	6.40	6.58	7.98	7
2013/10/14	ME	THB1	8:42:59	T	1.1	59.1	0.43	27.55	27.66	95.21	6.44	5.78	7.98	6
2013/10/14	ME	THB1	8:43:59	B	3.1	7.6	0.20	27.56	27.66	94.91	6.42	6.48	7.98	5
2013/10/14	ME	THB1	8:44:59	T	1.0	42.4	0.73	27.56	27.66	95.01	6.42	6.08	7.98	4
2013/10/14	ME	THB2	8:57:26	M	1.4	40.0	0.03	27.35	27.09	93.05	6.33	3.58	7.60	6
2013/10/14	ME	THB2	8:58:20	M	1.4	40.0	0.03	27.35	27.10	93.44	6.36	3.58	7.62	4
2013/10/14	ME	THB2	8:59:12	M	1.4	40.0	0.03	27.36	27.11	93.43	6.36	3.68	7.63	6
2013/10/14	ME	WSR45C	8:10:04	B	12.3	99.6	0.32	27.74	29.43	79.96	5.34	7.88	7.99	10
2013/10/14	ME	WSR45C	8:11:00	M	7.0	26.1	0.23	27.55	28.32	85.99	5.79	3.17	7.99	3
2013/10/14	ME	WSR45C	8:11:59	T	1.0	52.6	0.75	27.57	28.30	86.50	5.83	3.17	7.98	3
2013/10/14	ME	WSR45C	8:12:59	B	12.1	60.0	0.31	27.74	29.32	79.67	5.32	7.98	7.97	9
2013/10/14	ME	WSR45C	8:13:59	M	7.0	58.3	0.21	27.56	28.28	85.91	5.79	3.17	7.98	2
2013/10/14	ME	WSR45C	8:14:59	T	1.1	244.9	1.64	27.57	28.27	86.41	5.82	3.17	7.98	3
2013/10/14	ME	WSR45C	8:15:59	B	12.1	150.3	0.29	27.73	29.23	79.48	5.31	9.48	7.97	9
2013/10/14	ME	WSR45C	8:16:59	M	7.1	120.2	0.19	27.58	28.27	85.62	5.77	3.17	7.98	2
2013/10/14	ME	WSR45C	8:17:59	T	1.1	330.3	1.45	27.49	28.05	88.44	5.97	2.87	7.98	3
2013/10/14	ME	WSR46	9:17:39	B	9.0	38.1	0.63	27.80	28.71	83.19	5.57	14.78	7.98	16
2013/10/14	ME	WSR46	9:18:29	M	5.6	74.7	0.61	27.73	28.28	83.90	5.64	16.09	7.98	15
2013/10/14	ME	WSR46	9:19:19	T	1.2	38.6	0.45	27.60	27.84	90.86	6.13	3.97	7.96	5
2013/10/14	ME	WSR46	9:20:19	B	9.4	83.9	0.56	27.81	28.52	82.70	5.54	16.29	7.94	15
2013/10/14	ME	WSR46	9:21:09	M	5.1	82.5	0.86	27.74	28.19	83.71	5.62	15.09	7.95	15
2013/10/14	ME	WSR46	9:22:04	T	1.2	157.4	1.87	27.78	27.					