

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)
2014/01/02	MF	DS1	7:00:04	B	2.1	319.7	0.63	16.45	32.71	100.87	8.09	5.55	8.05	7
2014/01/02	MF	DS1	7:01:10	T	1.1	108.1	0.30	16.45	32.73	100.07	8.02	6.15	8.09	10
2014/01/02	MF	DS1	7:02:07	B	2.0	214.5	0.34	16.45	32.82	100.36	8.04	7.05	8.10	7
2014/01/02	MF	DS1	7:03:08	T	1.1	215.2	0.38	16.47	32.69	99.96	8.01	6.45	8.10	8
2014/01/02	MF	DS1	7:04:21	B	2.0	210.8	0.59	16.46	32.76	99.95	8.01	6.95	8.11	6
2014/01/02	MF	DS1	7:05:07	T	0.8	212.0	0.51	16.47	32.75	99.95	8.01	7.25	8.11	6
2014/01/02	MF	DS2	7:11:09	M	1.5	343.6	0.62	16.42	32.86	100.32	8.08	8.15	8.12	8
2014/01/02	MF	DS2	7:12:08	M	1.5	343.6	0.62	16.43	32.86	100.61	8.06	8.35	8.12	8
2014/01/02	MF	DS2	7:13:07	M	1.5	285.4	0.79	16.43	32.84	100.61	8.06	7.85	8.12	7
2014/01/02	MF	DS3	7:18:10	M	1.3	19.8	0.98	16.40	32.90	100.88	8.09	12.95	8.11	17
2014/01/02	MF	DS3	7:19:40	M	1.4	225.0	0.28	16.40	32.90	100.97	8.09	12.15	8.11	19
2014/01/02	MF	DS3	7:20:20	M	1.4	225.0	0.28	16.40	32.90	100.97	8.09	14.85	8.11	16
2014/01/02	MF	DS4	7:30:37	B	2.0	26.2	0.41	16.37	32.90	99.52	7.95	8.55	8.10	30
2014/01/02	MF	DS4	7:31:19	T	1.0	267.1	0.70	16.52	32.86	99.52	7.96	5.65	8.11	11
2014/01/02	MF	DS4	7:32:07	B	2.0	53.4	0.43	16.53	32.86	99.52	7.96	6.35	8.11	34
2014/01/02	MF	DS4	7:33:07	T	1.0	267.1	0.70	16.48	32.82	99.51	7.97	6.55	8.11	10
2014/01/02	MF	DS4	7:34:08	B	2.0	228.6	1.21	16.50	32.83	99.31	7.95	6.85	8.10	25
2014/01/02	MF	DS4	7:35:10	T	1.1	267.1	0.70	16.47	32.81	99.40	7.96	6.65	8.10	14
2014/01/02	MF	DS5	7:42:04	B	4.0	180.8	0.57	16.37	32.77	99.07	7.95	6.65	8.10	5
2014/01/02	MF	DS5	7:42:49	M	3.0	299.7	0.22	16.38	32.73	98.57	7.91	5.25	8.09	6
2014/01/02	MF	DS5	7:43:26	T	1.1	210.4	0.20	16.37	32.76	98.56	7.91	5.95	8.09	5
2014/01/02	MF	DS5	7:44:10	B	4.0	290.1	0.41	16.34	32.76	98.56	7.92	5.85	8.10	7
2014/01/02	MF	DS5	7:45:07	M	3.0	303.0	0.30	16.33	32.75	98.75	7.93	5.65	8.10	5
2014/01/02	MF	DS5	7:46:07	T	1.0	210.4	0.20	16.35	32.75	98.85	7.94	5.95	8.09	6
2014/01/02	MF	DS5	7:47:13	B	4.0	296.2	0.52	16.35	32.75	98.64	7.92	5.75	8.09	6
2014/01/02	MF	DS5	7:48:09	M	3.0	154.0	0.19	16.37	32.77	98.74	7.93	6.35	8.09	5
2014/01/02	MF	DS5	7:49:14	T	1.0	321.2	1.25	16.36	32.75	98.93	7.94	5.95	8.10	7
2014/01/02	MF	US1	8:32:57	B	2.0	323.5	0.26	16.71	32.60	95.83	7.65	10.75	8.11	14
2014/01/02	MF	US1	8:33:33	T	1.0	50.3	0.15	16.71	32.60	95.93	7.66	10.35	8.10	17
2014/01/02	MF	US1	8:34:21	B	2.0	248.3	0.91	16.59	32.59	95.63	7.63	10.95	8.08	14
2014/01/02	MF	US1	8:35:11	T	1.0	50.3	0.15	16.72	32.59	95.82	7.65	9.95	8.08	11
2014/01/02	MF	US1	8:36:10	B	2.0	221.5	0.66	16.71	32.59	95.62	7.63	11.55	8.07	12
2014/01/02	MF	US1	8:37:06	T	1.0	242.6	0.32	16.72	32.59	95.72	7.64	10.45	8.07	13
2014/01/02	MF	US2	8:44:06	B	3.0	302.0	0.34	16.70	32.53	95.88	7.66	8.95	8.08	8
2014/01/02	MF	US2	8:45:07	T	1.0	292.8	0.41	16.70	32.53	95.58	7.63	9.75	8.07	12
2014/01/02	MF	US2	8:46:20	B	3.2	131.3	0.31	16.70	32.54	95.57	7.63	9.75	8.07	8
2014/01/02	MF	US2	8:47:08	T	1.1	292.8	0.41	16.70	32.53	95.77	7.65	8.55	8.07	10
2014/01/02	MF	US2	8:48:07	B	3.0	114.0	0.67	16.70	32.53	95.56	7.63	10.45	8.07	11
2014/01/02	MF	US2	8:49:07	T	1.0	199.2	1.17	16.70	32.53	95.96	7.67	9.05	8.07	11
2014/01/02	MF	MW1	7:11:00	B	18.0	16.5	0.18	17.12	32.53	93.67	7.44	16.19	8.02	12
2014/01/02	MF	MW1	7:11:59	M	9.9	79.9	0.50	17.12	32.52	93.26	7.47	14.50	8.02	12
2014/01/02	MF	MW1	7:12:59	T	1.0	38.2	0.66	17.10	32.47	95.06	7.54	11.60	8.03	12
2014/01/02	MF	MW1	7:14:09	B	17.8	47.4	0.90	17.11	32.50	93.85	7.44	13.40	8.03	15
2014/01/02	MF	MW1	7:15:04	M	10.0	42.9	0.24	17.12	32.51	94.45	7.48	13.70	8.03	14
2014/01/02	MF	MW1	7:15:59	T	1.0	53.6	0.31	17.10	32.46	95.24	7.55	11.80	8.03	13
2014/01/02	MF	MW1	7:17:19	B	18.0	69.9	0.46	17.11	32.51	93.84	7.44	15.00	8.03	17
2014/01/02	MF	MW1	7:18:04	M	10.0	92.0	0.37	17.10	32.47	94.03	7.46	13.90	8.04	16
2014/01/02	MF	MW1	7:18:59	T	1.1	65.3	0.37	17.09	32.44	95.23	7.55	13.90	8.04	15
2014/01/02	MF	THB1	8:20:29	B	3.1	66.6	0.70	16.68	32.25	99.44	7.96	7.10	8.05	7
2014/01/02	MF	THB1	8:21:19	T	1.1	274.3	0.24	16.69	32.20	98.74	7.90	8.10	8.04	7
2014/01/02	MF	THB1	8:22:09	B	3.0	7.5	0.61	16.69	32.22	98.54	7.89	7.70	8.03	8
2014/01/02	MF	THB1	8:22:59	T	1.0	173.9	0.19	16.69	32.19	98.53	7.89	7.40	8.03	7
2014/01/02	MF	THB1	8:23:59	B	3.0	252.0	0.34	16.69	32.23	98.33	7.87	7.30	8.03	8
2014/01/02	MF	THB1	8:24:59	T	1.0	197.9	0.83	16.69	32.18	98.42	7.88	7.60	8.03	8
2014/01/02	MF	THB2	8:26:23	M	1.3	40.0	0.03	16.81	32.40	95.56	7.62	3.75	7.83	5
2014/01/02	MF	THB2	8:27:19	M	1.3	40.0	0.03	16.81	32.40	95.44	7.61	4.15	7.88	5
2014/01/02	MF	THB2	8:28:13	M	1.3	40.0	0.03	16.83	32.42	95.41	7.61	4.85	7.91	5
2014/01/02	MF	WSR45C	7:50:19	B	12.1	120.5	0.31	16.86	32.17	96.49	7.70	16.59	8.05	14
2014/01/02	MF	WSR45C	7:51:09	M	7.1	251.2	0.69	16.86	32.17	96.18	7.68	13.50	8.05	13
2014/01/02	MF	WSR45C	7:51:59	T	1.1	126.8	0.21	16.86	32.17	96.48	7.70	10.50	8.05	11
2014/01/02	MF	WSR45C	7:53:01	B	12.1	120.5	0.31	16.86	32.17	95.68	7.64	14.00	8.03	16
2014/01/02	MF	WSR45C	7:53:59	M	7.0	321.9	0.37	16.87	32.17	95.87	7.65	14.10	8.04	15
2014/01/02	MF	WSR45C	7:54:59	T	1.1	265.4	0.36	16.86	32.17	96.37	7.69	11.10	8.04	11
2014/01/02	MF	WSR45C	7:55:59	B	12.1	254.5	0.58	16.87	32.17	95.46	7.62	15.00	8.03	16
2014/01/02	MF	WSR45C	7:56:59	M	7.0	219.5	0.27	16.87	32.17	95.76	7.64	14.20	8.04	17
2014/01/02	MF	WSR45C	7:57:59	T	1.0	242.1	0.56	16.86	32.17	96.35	7.69	11.50	8.04	13
2014/01/02	MF	WSR46	8:58:49	B	9.2	79.3	0.19	16.72	32.06	97.28	7.79	13.40	8.02	10
2014/01/02	MF	WSR46	8:59:39	M	5.4	311.5	1.06	16.72	32.06	96.97	7.77	13.10	8.01	12
2014/01/02	MF	WSR46	9:00:24	T	1.1	299.4	0.88	16.73	32.05	97.27	7.79	11.50	8.01	12
2014/01/02	MF	WSR46	9:01:19	B	9.0	314.4	1.12	16.72	32.07	96.57	7.73	13.40	8.01	12
2014/01/02	MF	WSR46	9:02:04	M	5.6	295.4	0.54	16.72	32.07	96.76	7.75	13.90	8.01	14
2014/01/02	MF	WSR46	9:02:59	T	1.1	309.5	0.52	16.72	32.06	97.06	7.77	12.60	8.01	11
2014/01/02	MF	WSR46	9:03:59	B	8.9	311.5	0.80	16.72	32.07	96.36	7.72	12.60	8.01	13
2014/01/02	MF	WSR46	9:05:00	M	5.6	271.8	0.40	16.72	32.06	96.65	7.74	11.80	8.00	13
2014/01/02	MF	WSR46	9:06:04	T	0.9	334.6	0.28	16.72	32.06	97.04	7.77	10.60	8.00	13

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)
2014/01/02	ME	DS1	12:29:41	B	2.9	275.6	0.17	16.89	32.36	96.72	7.71	6.95	8.08	7
2014/01/02	ME	DS1	12:30:37	T	1.1	285.5	0.69	16.82	32.39	96.22	7.68	7.45	8.11	9
2014/01/02	ME	DS1	12:31:14	B	3.0	292.1	0.22	16.75	32.42	95.83	7.65	6.95	8.11	7
2014/01/02	ME	DS1	12:32:12	T	1.0	285.5	0.69	16.80	32.40	96.24	7.68	7.55	8.10	9
2014/01/02	ME	DS1	12:33:10	B	3.0	77.5	0.51	16.75	32.44	95.44	7.62	5.45	8.10	6
2014/01/02	ME	DS1	12:34:08	T	1.1	285.5	0.69	16.81	32.42	95.85	7.65	8.25	8.10	6
2014/01/02	ME	DS2	12:39:54	B	3.0	55.8	0.46	17.33	32.52	97.71	7.71	4.75	8.12	5
2014/01/02	ME	DS2	12:40:36	T	1.1	51.2	0.23	17.36	32.54	97.72	7.71	4.75	8.11	6
2014/01/02	ME	DS2	12:41:09	B	3.0	296.6	0.11	17.30	32.56	97.12	7.67	4.65	8.11	5
2014/01/02	ME	DS2	12:42:19	T	1.0	51.2	0.23	17.35	32.55	97.33	7.68	4.75	8.11	6
2014/01/02	ME	DS2	12:43:08	B	3.0	45.7	0.62	17.28	32.58	96.94	7.65	4.35	8.11	4
2014/01/02	ME	DS2	12:44:02	T	0.9	51.2	0.23	17.36	32.55	97.55	7.69	4.65	8.10	5
2014/01/02	ME	DS3	12:49:25	B	4.0	112.6	0.29	17.15	32.60	99.30	7.86	4.25	8.11	6
2014/01/02	ME	DS3	12:50:18	M	3.0	91.5	0.45	17.23	32.58	96.70	7.64	5.05	8.10	7
2014/01/02	ME	DS3	12:51:30	T	1.0	62.6	0.50	17.37	32.58	97.61	7.69	4.15	8.10	5
2014/01/02	ME	DS3	12:52:12	B	3.9	17.9	0.74	17.36	32.58	97.22	7.67	4.25	8.10	6
2014/01/02	ME	DS3	12:53:26	M	3.1	54.6	0.56	17.22	32.58	97.13	7.68	4.25	8.10	6
2014/01/02	ME	DS3	12:54:19	T	1.0	62.6	0.50	17.41	32.54	98.04	7.72	4.35	8.10	5
2014/01/02	ME	DS3	12:55:08	B	4.0	25.1	0.48	17.16	32.58	96.94	7.67	4.55	8.09	6
2014/01/02	ME	DS3	12:56:12	M	3.0	66.0	0.65	17.26	32.54	97.76	7.72	4.25	8.09	5
2014/01/02	ME	DS3	12:57:06	T	1.0	62.6	0.50	17.25	32.49	98.37	7.78	4.45	8.10	5
2014/01/02	ME	DS4	13:03:57	B	6.0	126.5	0.53	17.04	32.73	93.10	7.38	5.75	8.08	6
2014/01/02	ME	DS4	13:04:57	M	4.0	179.3	0.17	17.01	32.60	94.01	7.46	5.65	8.09	5
2014/01/02	ME	DS4	13:05:49	T	1.0	21.0	0.59	17.06	32.54	95.53	7.56	4.45	8.10	4
2014/01/02	ME	DS4	13:06:34	B	6.0	8.6	0.50	17.08	32.61	94.23	7.46	5.55	8.07	6
2014/01/02	ME	DS4	13:07:18	M	3.9	62.6	0.19	17.01	32.60	94.13	7.47	5.55	8.08	6
2014/01/02	ME	DS4	13:08:10	T	1.1	21.0	0.59	17.03	32.53	97.06	7.70	4.65	8.09	5
2014/01/02	ME	DS4	13:09:18	B	6.1	13.5	0.46	17.10	32.83	93.25	7.38	5.85	8.07	5
2014/01/02	ME	DS4	13:10:26	M	4.0	62.5	0.67	17.00	32.60	94.46	7.50	5.45	8.08	5
2014/01/02	ME	DS4	13:11:16	T	1.1	21.0	0.59	17.04	32.55	96.28	7.64	4.75	8.09	6
2014/01/02	ME	DS5	13:17:33	B	7.0	66.3	0.03	17.14	32.91	92.01	7.27	5.65	8.07	6
2014/01/02	ME	DS5	13:18:38	M	4.6	107.6	0.34	16.96	32.65	94.03	7.47	5.45	8.07	6
2014/01/02	ME	DS5	13:19:24	T	1.0	81.0	1.24	17.07	32.57	93.83	7.44	5.35	8.08	6
2014/01/02	ME	DS5	13:20:13	B	7.1	51.5	0.16	17.13	32.89	93.04	7.35	5.75	8.06	6
2014/01/02	ME	DS5	13:21:09	M	4.6	318.2	0.33	16.98	32.68	93.55	7.43	5.45	8.07	5
2014/01/02	ME	DS5	13:22:33	T	1.1	81.0	1.24	17.13	32.53	96.88	7.67	4.65	8.08	6
2014/01/02	ME	DS5	13:23:46	B	6.9	256.0	0.61	17.14	32.90	92.56	7.31	5.95	8.06	8
2014/01/02	ME	DS5	13:24:14	M	4.5	356.4	0.05	16.98	32.67	93.17	7.40	5.55	8.07	6
2014/01/02	ME	DS5	13:25:00	T	1.0	81.0	1.24	17.11	32.53	95.70	7.58	4.85	8.08	6
2014/01/02	ME	US1	13:49:52	B	2.1	31.8	0.32	16.89	32.65	100.76	8.01	8.35	8.10	7
2014/01/02	ME	US1	13:50:58	T	1.0	191.4	0.52	17.13	32.59	101.78	8.06	7.25	8.09	8
2014/01/02	ME	US1	13:51:04	B	2.0	343.6	0.49	16.92	32.65	100.77	8.01	9.05	8.08	9
2014/01/02	ME	US1	13:52:02	T	1.0	101.4	0.52	17.28	32.59	102.30	8.08	6.75	8.08	6
2014/01/02	ME	US1	13:53:01	B	2.0	337.1	0.39	17.38	32.55	102.71	8.10	5.85	8.08	7
2014/01/02	ME	US1	13:54:07	T	1.1	101.4	0.52	17.49	32.54	102.92	8.10	5.65	8.08	6
2014/01/02	ME	US2	14:00:29	B	2.0	215.6	0.43	17.15	32.64	105.41	8.34	9.85	8.10	6
2014/01/02	ME	US2	14:01:05	T	1.2	238.3	1.08	17.36	32.64	106.12	8.36	4.55	8.10	10
2014/01/02	ME	US2	14:02:10	B	2.1	213.1	0.52	17.22	32.64	106.03	8.38	4.55	8.09	4
2014/01/02	ME	US2	14:03:02	T	1.0	238.3	1.08	17.23	32.64	105.94	8.37	7.35	8.09	8
2014/01/02	ME	US2	14:04:10	B	1.9	141.7	0.45	16.85	32.73	105.14	8.36	5.15	8.09	36
2014/01/02	ME	US2	14:05:06	T	1.0	102.3	0.39	17.11	32.64	106.26	8.42	4.45	8.09	8
2014/01/02	ME	MW1	14:13:09	B	18.0	348.2	0.31	17.33	32.79	88.37	6.96	5.30	8.01	6
2014/01/02	ME	MW1	14:13:59	M	9.4	57.8	0.52	17.33	32.71	89.18	7.03	4.11	8.01	5
2014/01/02	ME	MW1	14:14:59	T	1.0	158.3	0.33	17.33	32.74	89.59	7.06	4.31	8.01	5
2014/01/02	ME	MW1	14:16:19	B	17.9	22.0	1.10	17.33	32.79	88.09	6.94	5.60	8.01	5
2014/01/02	ME	MW1	14:17:09	M	10.2	85.1	0.41	17.32	32.74	88.90	7.01	4.41	8.01	5
2014/01/02	ME	MW1	14:18:04	T	1.0	84.6	0.29	17.33	32.70	89.92	7.09	4.81	8.00	6
2014/01/02	ME	MW1	14:19:14	B	17.9	4.7	0.26	17.33	32.77	88.31	6.96	4.91	8.00	6
2014/01/02	ME	MW1	14:19:59	M	10.0	285.4	0.61	17.32	32.75	88.62	6.98	5.10	8.00	6
2014/01/02	ME	MW1	14:20:59	T	1.1	77.6	0.42	17.33	32.70	89.74	7.07	4.51	8.00	6
2014/01/02	ME	THB1	12:57:40	B	3.0	261.8	0.24	17.18	32.32	99.96	7.92	4.21	8.10	4
2014/01/02	ME	THB1	12:58:29	T	1.0	194.9	0.70	17.50	32.29	100.27	7.90	3.71	8.09	4
2014/01/02	ME	THB1	12:59:09	B	2.9	147.3	0.46	16.90	32.35	99.57	7.93	4.91	8.10	5
2014/01/02	ME	THB1	13:00:09	T	1.0	65.2	0.07	17.18	32.28	100.79	7.99	4.31	8.10	3
2014/01/02	ME	THB1	13:00:59	B	3.0	13.8	0.38	16.76	32.39	98.89	7.90	7.30	8.10	8
2014/01/02	ME	THB1	13:01:59	T	1.1	95.7	0.18	17.07	32.28	100.50	7.98	4.11	8.09	4
2014/01/02	ME	THB2	13:03:41	M	1.3	40.0	0.03	17.58	32.28	103.95	8.18	5.75	8.05	4
2014/01/02	ME	THB2	13:04:39	M	1.3	40.0	0.03	17.57	32.27	104.17	8.19	6.85	8.05	4
2014/01/02	ME	THB2	13:05:31	M	1.3	40.0	0.03	17.58	32.27	104.40	8.21	6.85	8.05	5
2014/01/02	ME	WSR45C	13:33:19	B	12.9	97.9	0.38	17.19	32.66	90.09	7.12	5.30	8.04	6
2014/01/02	ME	WSR45C	13:34:19	M	7.5	111.2	0.26	17.10	32.48	90.00	7.14	4.31	8.04	6
2014/01/02	ME	WSR45C	13:35:19	T	1.1	55.7	0.43	17.39	32.22	93.73	7.40	4.41	8.05	6
2014/01/02	ME	WSR45C	13:36:19	B	12.9	97.9	0.38	17.19	32.68	89.41	7.07	5.90	8.04	6
2014/01/02	ME	WSR45C	13:37:09	M	7.5	313.3	0.34	17.09	32.48	89.62	7.12	4.41	8.04	5
2014/01/02	ME	WSR45C	13:38:09	T	1.2	13.1	0.57	17.40	32.22	93.95	7.42	4.31	8.05	5
2014/01/02	ME	WSR45C	13:39:09	B	13.2	97.9	0.38	17.18	32.66	89.43	7.07	5.80	8.04	8
2014/01/02	ME	WSR45C	13:40:04	M	7.4	345.7	0.56	17.11	32.50	89.13	7.06	5.70	8.03	6
2014/01/02	ME	WSR45C	13:41:11	T	1.0	75.8	1.55	17.41	32.22	93.98	7.42	4.21	8.04	6
2014/01/02	ME	WSR46	12:24:15	B	9.0	295.0	0.45	16.78	32.21	91.98	7.35	9.50	8.05	8
2014/01/02	ME	WSR46	12:25:19	M	5.4	97.0	0.32	16.80	32.20	92.49	7.39	7.10	8.06	8
2014/01/02	ME	WSR46	12:26:09	T	1.0	190.6	0.45	16.92	32.20	93.70	7.47	8.40	8.06	9
2014/01/02	ME	WSR46	12:26:59	B	9.0	166.5	0.37	16.77	32.20	92.21	7.37	9.00	8.06	7
2014/01/02	ME	WSR46	12:27:59	M	5.5	5.9	0.23	16.79	32.20	92.61	7.40	7.20	8.07	7
2014/01/02	ME	WSR46	12:28:59	T	1.0	149.3	0.84	16.85	32.18	94.02	7.50	6.60	8.07	6
2014/01/02	ME	WSR46	12:29:59	B	9.1	128.6	0.41	16.76	32.20	92.63	7.41	7.10	8.07	8
2014/01/02	ME	WSR46	12:30:59	M	5.6	99.0	0.67	16.77	32.19	92.14	7.36	7.00	8.07	