

Summary Report: Impact Water Quality Monitoring for Dredging Activities

Sampling Date	Tide	Station	Area	Time	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temperature (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	Weather	Sea Condition	Suspended Solids (mg/L)
2009/09/14	Mid-Ebb	DS1	Downstream	9:51:16	Bottom	6.1	117.0	0.39	29.29	29.75	95.4	6.19	13.3	7.83	Raining	0.3M	22
2009/09/14	Mid-Ebb	DS1	Downstream	9:54:44	Bottom	6.0	117.0	0.39	29.28	29.92	92.5	6.00	8.3	7.83	Raining	0.3M	22
2009/09/14	Mid-Ebb	DS1	Downstream	9:52:23	Middle	3.9	146.3	0.37	29.56	28.26	106.7	6.96	12.5	7.86	Raining	0.3M	27
2009/09/14	Mid-Ebb	DS1	Downstream	9:55:41	Middle	4.0	149.1	0.43	29.49	28.42	106.6	6.95	12.2	7.86	Raining	0.3M	28
2009/09/14	Mid-Ebb	DS1	Downstream	9:53:28	Surface	1.1	143.9	0.59	29.67	27.91	115.2	7.51	4.9	7.88	Raining	0.3M	7
2009/09/14	Mid-Ebb	DS1	Downstream	9:56:46	Surface	1.1	143.9	0.59	29.66	27.95	112.5	7.33	4.3	7.88	Raining	0.3M	6
2009/09/14	Mid-Ebb	DS2	Downstream	9:41:34	Bottom	7.0	90.7	0.15	29.31	29.89	96.9	6.28	7.7	7.82	Raining	0.3M	12
2009/09/14	Mid-Ebb	DS2	Downstream	9:44:22	Bottom	7.0	92.3	0.25	29.30	29.95	95.1	6.17	8.6	7.83	Raining	0.3M	11
2009/09/14	Mid-Ebb	DS2	Downstream	9:42:32	Middle	4.6	137.7	0.37	29.36	29.42	97.0	6.30	5.5	7.83	Raining	0.3M	6
2009/09/14	Mid-Ebb	DS2	Downstream	9:45:21	Middle	4.5	137.7	0.37	29.36	29.26	95.1	6.19	5.4	7.83	Raining	0.3M	7
2009/09/14	Mid-Ebb	DS2	Downstream	9:43:25	Surface	1.2	163.3	0.51	29.68	27.98	112.0	7.30	6.2	7.87	Raining	0.3M	6
2009/09/14	Mid-Ebb	DS2	Downstream	9:46:18	Surface	1.4	163.3	0.51	29.53	28.16	107.8	7.03	5.5	7.86	Raining	0.3M	7
2009/09/14	Mid-Ebb	DS3	Downstream	9:31:52	Bottom	7.2	91.3	0.23	29.44	28.76	105.9	6.90	5.6	7.84	Raining	0.3M	10
2009/09/14	Mid-Ebb	DS3	Downstream	9:34:48	Bottom	7.0	102.2	0.36	29.39	28.84	104.1	6.79	5.1	7.85	Raining	0.3M	9
2009/09/14	Mid-Ebb	DS3	Downstream	9:32:49	Middle	4.4	110.9	0.33	29.69	28.35	109.5	7.12	3.9	7.85	Raining	0.3M	6
2009/09/14	Mid-Ebb	DS3	Downstream	9:35:38	Middle	4.4	110.9	0.33	29.70	28.28	107.5	6.99	4.2	7.85	Raining	0.3M	5
2009/09/14	Mid-Ebb	DS3	Downstream	9:33:42	Surface	1.1	154.5	0.50	29.75	28.20	111.7	7.26	4.2	7.86	Raining	0.3M	6
2009/09/14	Mid-Ebb	DS3	Downstream	9:36:23	Surface	1.7	154.5	0.50	29.75	28.19	110.0	7.15	3.8	7.86	Raining	0.3M	5
2009/09/14	Mid-Ebb	DS4	Downstream	9:21:01	Bottom	4.8	75.7	0.44	29.28	29.85	100.6	6.53	7.8	7.82	Raining	0.3M	7
2009/09/14	Mid-Ebb	DS4	Downstream	9:24:19	Bottom	4.9	86.7	0.43	29.31	29.01	99.0	6.46	7.3	7.85	Raining	0.3M	8
2009/09/14	Mid-Ebb	DS4	Downstream	9:22:12	Middle	2.9	97.9	0.49	29.34	28.13	114.9	7.52	3.6	7.87	Raining	0.3M	7
2009/09/14	Mid-Ebb	DS4	Downstream	9:25:19	Middle	3.3	150.6	0.37	29.35	28.02	113.4	7.43	3.7	7.87	Raining	0.3M	8
2009/09/14	Mid-Ebb	DS4	Downstream	9:23:06	Surface	1.1	137.6	0.38	29.34	27.99	115.5	7.57	3.6	7.87	Raining	0.3M	6
2009/09/14	Mid-Ebb	DS4	Downstream	9:25:56	Surface	1.2	137.6	0.38	29.35	27.94	114.0	7.47	3.4	7.87	Raining	0.3M	6
2009/09/14	Mid-Ebb	MW1	Ma Wan	7:20:05	Bottom	18.2	39.0	0.18	29.21	30.66	80.3	5.20	4.9	7.61	Raining	0.3M	5
2009/09/14	Mid-Ebb	MW1	Ma Wan	7:23:28	Bottom	18.1	23.2	0.16	29.23	30.77	80.7	5.21	4.6	7.69	Raining	0.3M	7
2009/09/14	Mid-Ebb	MW1	Ma Wan	7:21:00	Middle	9.2	53.2	0.38	29.21	30.66	79.7	5.16	4.1	7.63	Raining	0.3M	6
2009/09/14	Mid-Ebb	MW1	Ma Wan	7:24:19	Middle	9.1	69.0	0.34	29.19	30.57	79.7	5.16	3.9	7.69	Raining	0.3M	7
2009/09/14	Mid-Ebb	MW1	Ma Wan	7:21:55	Surface	1.1	94.4	0.42	29.16	30.46	81.1	5.26	3.6	7.65	Raining	0.3M	4
2009/09/14	Mid-Ebb	MW1	Ma Wan	7:25:16	Surface	1.3	69.2	0.54	29.12	30.38	81.1	5.26	3.6	7.68	Raining	0.3M	6
2009/09/14	Mid-Ebb	US1	Upstream	10:01:14	Bottom	6.1	132.1	0.38	29.28	29.95	95.1	6.17	11.9	7.82	Raining	0.3M	13
2009/09/14	Mid-Ebb	US1	Upstream	10:04:21	Bottom	6.1	132.7	0.37	29.29	29.84	90.8	5.89	11.8	7.82	Raining	0.3M	12
2009/09/14	Mid-Ebb	US1	Upstream	10:02:11	Middle	4.0	148.9	0.55	29.39	28.88	94.8	6.18	6.9	7.81	Raining	0.3M	11
2009/09/14	Mid-Ebb	US1	Upstream	10:05:19	Middle	3.9	141.0	0.47	29.40	28.86	101.1	6.59	5.9	7.82	Raining	0.3M	10

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2009/09/14	Mid-Ebb	US1	Upstream	10:03:10	Surface	1.3	157.6	0.54	29.71	27.75	119.8	7.81	3.2	7.90	Raining	0.3M	4
2009/09/14	Mid-Ebb	US1	Upstream	10:06:14	Surface	1.1	157.6	0.54	29.79	27.64	119.2	7.77	3.3	7.90	Raining	0.3M	5
2009/09/14	Mid-Ebb	US2	Upstream	10:11:38	Bottom	6.8	142.5	0.32	29.30	29.65	90.9	5.90	20.3	7.81	Raining	0.3M	25
2009/09/14	Mid-Ebb	US2	Upstream	10:14:48	Bottom	6.8	143.2	0.31	29.30	29.62	89.0	5.78	23.0	7.83	Raining	0.3M	25
2009/09/14	Mid-Ebb	US2	Upstream	10:12:36	Middle	4.4	152.6	0.45	29.36	29.12	92.3	6.00	17.5	7.82	Raining	0.3M	22
2009/09/14	Mid-Ebb	US2	Upstream	10:15:49	Middle	4.2	160.7	0.59	29.40	28.58	89.6	5.85	9.7	7.82	Raining	0.3M	21
2009/09/14	Mid-Ebb	US2	Upstream	10:13:45	Surface	1.2	166.7	0.56	29.72	27.64	114.6	7.48	3.7	7.88	Raining	0.3M	5
2009/09/14	Mid-Ebb	US2	Upstream	10:16:43	Surface	1.8	164.7	0.58	29.74	27.63	113.2	7.38	3.8	7.89	Raining	0.3M	7
2009/09/22	Mid-Ebb	DS1	Downstream	14:48:12	Bottom	6.0	83.5	0.47	29.95	25.99	84.4	5.54	14.6	7.73	Sunny	0.2m	22
2009/09/22	Mid-Ebb	DS1	Downstream	14:52:39	Bottom	6.0	99.6	0.42	29.89	26.42	82.7	5.41	10.1	7.74	Sunny	0.2m	8
2009/09/22	Mid-Ebb	DS1	Downstream	14:53:34	Middle	4.1	90.2	0.60	30.06	25.17	86.9	5.71	6.3	7.72	Sunny	0.2m	7
2009/09/22	Mid-Ebb	DS1	Downstream	14:49:10	Middle	4.0	98.4	0.54	30.07	25.03	87.6	5.76	3.9	7.72	Sunny	0.2m	18
2009/09/22	Mid-Ebb	DS1	Downstream	14:49:58	Surface	1.1	81.8	0.60	30.09	24.78	89.8	5.91	3.0	7.72	Sunny	0.2m	10
2009/09/22	Mid-Ebb	DS1	Downstream	14:54:20	Surface	1.1	99.5	0.58	30.10	24.78	89.8	5.92	3.0	7.72	Sunny	0.2m	5
2009/09/22	Mid-Ebb	DS2	Downstream	14:36:16	Bottom	7.0	83.9	0.32	29.93	26.30	83.3	5.45	9.3	7.71	Sunny	0.2m	7
2009/09/22	Mid-Ebb	DS2	Downstream	14:41:49	Bottom	7.0	76.0	0.26	29.87	26.72	81.4	5.32	16.8	7.72	Sunny	0.2m	7
2009/09/22	Mid-Ebb	DS2	Downstream	14:37:19	Middle	4.5	105.8	0.38	30.05	25.41	86.2	5.66	4.6	7.71	Sunny	0.2m	7
2009/09/22	Mid-Ebb	DS2	Downstream	14:42:44	Middle	4.5	85.5	0.51	30.07	25.18	86.8	5.71	3.9	7.71	Sunny	0.2m	7
2009/09/22	Mid-Ebb	DS2	Downstream	14:38:18	Surface	1.2	120.0	0.39	30.05	25.23	88.0	5.78	3.9	7.71	Sunny	0.2m	7
2009/09/22	Mid-Ebb	DS2	Downstream	14:43:40	Surface	1.0	96.6	0.46	30.08	25.08	87.8	5.78	3.4	7.72	Sunny	0.2m	6
2009/09/22	Mid-Ebb	DS3	Downstream	14:24:13	Bottom	8.0	146.1	0.36	29.90	27.06	76.5	4.99	16.1	7.70	Sunny	0.2m	26
2009/09/22	Mid-Ebb	DS3	Downstream	14:28:51	Bottom	8.1	115.3	0.46	29.86	27.37	76.1	4.96	25.1	7.70	Sunny	0.2m	18
2009/09/22	Mid-Ebb	DS3	Downstream	14:25:04	Middle	5.0	116.9	0.44	29.97	26.40	78.0	5.10	7.9	7.69	Sunny	0.2m	16
2009/09/22	Mid-Ebb	DS3	Downstream	14:29:39	Middle	5.1	122.7	0.43	29.94	26.63	77.8	5.08	9.7	7.70	Sunny	0.2m	23
2009/09/22	Mid-Ebb	DS3	Downstream	14:25:49	Surface	1.2	113.4	0.48	29.98	25.48	81.6	5.36	7.1	7.69	Sunny	0.2m	20
2009/09/22	Mid-Ebb	DS3	Downstream	14:30:32	Surface	1.1	120.0	0.39	30.01	25.95	78.6	5.15	8.2	7.69	Sunny	0.2m	12
2009/09/22	Mid-Ebb	DS4	Downstream	14:08:01	Bottom	18.0	257.6	0.04	29.83	27.62	77.1	5.02	13.2	7.71	Sunny	0.2m	9
2009/09/22	Mid-Ebb	DS4	Downstream	14:17:20	Bottom	16.0	166.7	0.13	29.83	27.68	78.9	5.13	10.5	7.71	Sunny	0.2m	9
2009/09/22	Mid-Ebb	DS4	Downstream	14:09:03	Middle	10.1	118.2	0.20	30.08	26.31	83.5	5.45	5.8	7.71	Sunny	0.2m	8
2009/09/22	Mid-Ebb	DS4	Downstream	14:18:25	Middle	10.0	111.2	0.21	30.05	26.01	79.3	5.19	7.8	7.68	Sunny	0.2m	8
2009/09/22	Mid-Ebb	DS4	Downstream	14:10:03	Surface	1.2	110.5	0.33	30.20	25.02	85.8	5.64	5.7	7.68	Sunny	0.2m	9
2009/09/22	Mid-Ebb	DS4	Downstream	14:19:18	Surface	1.1	121.9	0.37	30.19	25.22	85.8	5.63	5.9	7.69	Sunny	0.2m	7
2009/09/22	Mid-Ebb	DS5	Downstream	13:55:57	Bottom	7.9	131.3	0.15	29.95	26.83	80.1	5.23	8.4	7.68	Sunny	0.2m	14
2009/09/22	Mid-Ebb	DS5	Downstream	14:00:49	Bottom	8.1	122.2	0.23	29.93	26.98	80.6	5.26	7.7	7.70	Sunny	0.2m	8

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Sampling Date	Tide	Station	Area	Time	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temperature (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	Weather	Sea Condition	Suspended Solids (mg/L)
2009/09/22	Mid-Ebb	DS5	Downstream	13:57:12	Middle	5.0	123.9	0.39	30.06	25.85	79.1	5.18	9.2	7.66	Sunny	0.2m	9
2009/09/22	Mid-Ebb	DS5	Downstream	14:01:50	Middle	5.0	109.2	0.30	30.05	26.18	82.3	5.38	7.2	7.69	Sunny	0.2m	9
2009/09/22	Mid-Ebb	DS5	Downstream	13:58:17	Surface	1.0	72.4	0.49	30.12	25.56	86.7	5.68	6.5	7.69	Sunny	0.2m	12
2009/09/22	Mid-Ebb	DS5	Downstream	14:02:37	Surface	1.2	118.3	0.41	30.12	25.62	83.9	5.50	7.4	7.69	Sunny	0.2m	8
2009/09/22	Mid-Ebb	MW1	Ma Wan	16:27:36	Bottom	17.6	59.3	0.20	29.91	27.54	87.6	5.70	5.1	7.72	Sunny	0.2m	9
2009/09/22	Mid-Ebb	MW1	Ma Wan	16:31:43	Bottom	17.9	13.2	0.20	29.89	27.60	85.7	5.57	5.4	7.71	Sunny	0.2m	6
2009/09/22	Mid-Ebb	MW1	Ma Wan	16:28:37	Middle	10.2	48.5	0.24	29.92	27.48	87.6	5.70	4.9	7.72	Sunny	0.2m	7
2009/09/22	Mid-Ebb	MW1	Ma Wan	16:32:43	Middle	9.9	68.4	0.28	29.93	27.37	87.6	5.70	4.1	7.71	Sunny	0.2m	9
2009/09/22	Mid-Ebb	MW1	Ma Wan	16:29:36	Surface	1.1	85.5	0.59	30.03	27.00	94.7	6.17	3.8	7.74	Sunny	0.2m	5
2009/09/22	Mid-Ebb	MW1	Ma Wan	16:33:49	Surface	1.1	71.3	0.40	30.13	26.80	93.9	6.11	3.8	7.74	Sunny	0.2m	8
2009/09/22	Mid-Ebb	US1	Upstream	15:08:36	Bottom	6.1	85.6	0.52	29.70	28.13	81.5	5.30	37.2	7.76	Sunny	0.2m	27
2009/09/22	Mid-Ebb	US1	Upstream	15:12:28	Bottom	6.1	85.6	0.52	29.72	27.91	91.3	5.95	31.9	7.77	Sunny	0.2m	10
2009/09/22	Mid-Ebb	US1	Upstream	15:09:24	Middle	4.0	103.9	0.54	30.03	25.55	85.4	5.61	6.5	7.72	Sunny	0.2m	7
2009/09/22	Mid-Ebb	US1	Upstream	15:13:23	Middle	4.1	124.2	0.57	30.11	24.33	83.0	5.48	5.5	7.67	Sunny	0.2m	34
2009/09/22	Mid-Ebb	US1	Upstream	15:10:07	Surface	1.1	104.8	0.60	30.15	23.83	83.1	5.50	3.6	7.65	Sunny	0.2m	8
2009/09/22	Mid-Ebb	US1	Upstream	15:14:03	Surface	1.2	122.6	0.48	30.16	23.78	81.9	5.42	3.5	7.64	Sunny	0.2m	9
2009/09/22	Mid-Ebb	US2	Upstream	15:18:54	Bottom	7.0	92.3	0.40	29.78	27.25	84.1	5.50	18.3	7.76	Sunny	0.2m	11
2009/09/22	Mid-Ebb	US2	Upstream	15:23:15	Bottom	7.1	97.6	0.41	29.80	27.56	83.8	5.46	12.8	7.76	Sunny	0.2m	9
2009/09/22	Mid-Ebb	US2	Upstream	15:19:51	Middle	4.7	82.1	0.40	29.95	25.88	78.4	5.15	8.6	7.70	Sunny	0.2m	5
2009/09/22	Mid-Ebb	US2	Upstream	15:24:08	Middle	4.5	134.4	0.35	30.02	25.02	77.5	5.10	7.0	7.66	Sunny	0.2m	11
2009/09/22	Mid-Ebb	US2	Upstream	15:20:40	Surface	1.1	122.6	0.48	30.18	23.59	79.8	5.28	4.0	7.63	Sunny	0.2m	8
2009/09/22	Mid-Ebb	US2	Upstream	15:25:01	Surface	1.1	143.1	0.45	30.16	23.80	79.1	5.23	4.5	7.63	Sunny	0.2m	5
2009/09/22	Mid-Flood	DS1	Downstream	10:17:48	Bottom	6.0	349.5	0.30	30.05	25.29	81.1	5.33	31.3	7.73	Sunny	0.2m	54
2009/09/22	Mid-Flood	DS1	Downstream	10:23:03	Bottom	6.0	3.5	0.29	30.05	25.28	80.7	5.31	32.0	7.72	Sunny	0.2m	52
2009/09/22	Mid-Flood	DS1	Downstream	10:18:57	Middle	4.0	334.9	0.33	30.07	25.09	81.9	5.39	17.2	7.72	Sunny	0.2m	24
2009/09/22	Mid-Flood	DS1	Downstream	10:23:53	Middle	4.0	337.3	0.33	30.07	25.15	81.2	5.34	19.4	7.72	Sunny	0.2m	26
2009/09/22	Mid-Flood	DS1	Downstream	10:19:54	Surface	1.1	318.6	0.42	30.15	24.83	85.2	5.61	4.8	7.72	Sunny	0.2m	15
2009/09/22	Mid-Flood	DS1	Downstream	10:24:46	Surface	1.1	278.4	0.14	30.13	24.91	84.3	5.54	6.9	7.73	Sunny	0.2m	14
2009/09/22	Mid-Flood	DS2	Downstream	10:07:22	Bottom	7.0	332.1	0.32	30.09	24.94	82.7	5.45	19.5	7.70	Sunny	0.2m	32
2009/09/22	Mid-Flood	DS2	Downstream	10:09:52	Bottom	7.0	334.5	0.22	30.09	24.87	82.7	5.45	26.0	7.70	Sunny	0.2m	31
2009/09/22	Mid-Flood	DS2	Downstream	10:08:10	Middle	4.5	359.6	0.28	30.09	24.89	83.1	5.47	16.1	7.70	Sunny	0.2m	20
2009/09/22	Mid-Flood	DS2	Downstream	10:10:53	Middle	4.5	321.7	0.35	30.11	24.88	84.1	5.54	12.1	7.71	Sunny	0.2m	21
2009/09/22	Mid-Flood	DS2	Downstream	10:09:03	Surface	1.0	336.4	0.35	30.10	24.89	83.5	5.50	15.2	7.70	Sunny	0.2m	12
2009/09/22	Mid-Flood	DS2	Downstream	10:11:37	Surface	1.0	336.4	0.35	30.13	24.86	84.9	5.58	8.9	7.71	Sunny	0.2m	12

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2009/09/22	Mid-Flood	DS3	Downstream	9:55:20	Bottom	7.0	338.1	0.38	30.11	24.56	79.9	5.27	26.4	7.69	Sunny	0.2m	48
2009/09/22	Mid-Flood	DS3	Downstream	9:59:57	Bottom	7.0	345.3	0.40	30.10	24.54	79.4	5.23	32.1	7.68	Sunny	0.2m	50
2009/09/22	Mid-Flood	DS3	Downstream	9:56:24	Middle	4.5	339.0	0.37	30.11	24.50	79.8	5.26	18.1	7.69	Sunny	0.2m	21
2009/09/22	Mid-Flood	DS3	Downstream	10:00:54	Middle	4.5	339.0	0.37	30.11	24.43	79.7	5.26	14.9	7.68	Sunny	0.2m	20
2009/09/22	Mid-Flood	DS3	Downstream	9:57:22	Surface	1.0	336.8	0.42	30.13	24.37	82.3	5.43	11.4	7.69	Sunny	0.2m	18
2009/09/22	Mid-Flood	DS3	Downstream	10:01:50	Surface	1.1	336.8	0.42	30.12	24.30	81.1	5.35	11.4	7.68	Sunny	0.2m	19
2009/09/22	Mid-Flood	DS4	Downstream	9:44:57	Bottom	7.0	330.0	0.48	30.11	24.30	81.9	5.41	12.0	7.67	Sunny	0.2m	14
2009/09/22	Mid-Flood	DS4	Downstream	9:47:36	Bottom	7.0	334.4	0.51	30.11	24.28	80.3	5.30	10.7	7.67	Sunny	0.2m	15
2009/09/22	Mid-Flood	DS4	Downstream	9:45:45	Middle	4.5	327.5	0.51	30.11	23.80	81.9	5.42	5.2	7.66	Sunny	0.2m	11
2009/09/22	Mid-Flood	DS4	Downstream	9:48:30	Middle	4.5	341.1	0.47	30.11	23.86	81.5	5.39	5.3	7.66	Sunny	0.2m	11
2009/09/22	Mid-Flood	DS4	Downstream	9:46:29	Surface	1.1	349.4	0.49	30.15	22.57	81.9	5.45	4.9	7.60	Sunny	0.2m	5
2009/09/22	Mid-Flood	DS4	Downstream	9:49:24	Surface	1.1	311.1	0.51	30.15	22.65	79.8	5.31	3.7	7.61	Sunny	0.2m	4
2009/09/22	Mid-Flood	DS5	Downstream	9:34:15	Bottom	7.9	341.8	0.43	30.13	24.62	76.8	5.06	25.8	7.65	Sunny	0.2m	22
2009/09/22	Mid-Flood	DS5	Downstream	9:37:09	Bottom	8.0	350.0	0.53	30.13	24.58	76.1	5.02	26.5	7.67	Sunny	0.2m	24
2009/09/22	Mid-Flood	DS5	Downstream	9:35:21	Middle	5.1	338.5	0.53	30.15	23.84	77.7	5.14	4.5	7.64	Sunny	0.2m	8
2009/09/22	Mid-Flood	DS5	Downstream	9:38:18	Middle	5.0	341.7	0.63	30.14	23.77	77.5	5.13	4.4	7.64	Sunny	0.2m	8
2009/09/22	Mid-Flood	DS5	Downstream	9:36:09	Surface	1.1	337.3	0.58	30.13	22.70	78.5	5.23	4.2	7.60	Sunny	0.2m	6
2009/09/22	Mid-Flood	DS5	Downstream	9:39:07	Surface	1.0	337.3	0.58	30.14	22.70	78.2	5.21	4.3	7.60	Sunny	0.2m	5
2009/09/22	Mid-Flood	MW1	Ma Wan	7:50:03	Bottom	18.9	47.6	0.31	29.88	27.29	79.5	5.18	17.1	7.70	Sunny	0.2m	23
2009/09/22	Mid-Flood	MW1	Ma Wan	7:56:18	Bottom	18.8	25.0	0.41	29.84	27.39	80.0	5.21	13.2	7.73	Sunny	0.2m	20
2009/09/22	Mid-Flood	MW1	Ma Wan	7:51:15	Middle	10.5	17.9	0.29	29.90	27.07	80.9	5.28	10.8	7.72	Sunny	0.2m	15
2009/09/22	Mid-Flood	MW1	Ma Wan	7:57:11	Middle	10.5	33.2	0.28	29.85	27.32	79.8	5.20	10.8	7.73	Sunny	0.2m	16
2009/09/22	Mid-Flood	MW1	Ma Wan	7:52:18	Surface	1.1	31.5	0.30	29.90	26.67	84.2	5.51	6.3	7.72	Sunny	0.2m	8
2009/09/22	Mid-Flood	MW1	Ma Wan	7:58:17	Surface	1.1	13.1	0.25	29.88	26.92	82.0	5.35	6.8	7.73	Sunny	0.2m	9
2009/09/22	Mid-Flood	US1	Upstream	10:31:40	Bottom	5.8	359.4	0.19	30.03	25.83	79.0	5.18	46.3	7.74	Sunny	0.2m	70
2009/09/22	Mid-Flood	US1	Upstream	10:35:41	Bottom	6.0	359.4	0.19	30.04	25.68	80.4	5.28	42.4	7.74	Sunny	0.2m	69
2009/09/22	Mid-Flood	US1	Upstream	10:32:41	Middle	4.0	333.6	0.23	30.03	25.77	79.9	5.24	39.0	7.74	Sunny	0.2m	36
2009/09/22	Mid-Flood	US1	Upstream	10:36:49	Middle	4.0	312.7	0.25	30.05	25.60	80.7	5.29	34.1	7.75	Sunny	0.2m	35
2009/09/22	Mid-Flood	US1	Upstream	10:33:33	Surface	1.2	278.4	0.14	30.10	25.22	84.0	5.52	11.9	7.74	Sunny	0.2m	45
2009/09/22	Mid-Flood	US1	Upstream	10:37:47	Surface	1.0	247.3	0.25	30.07	25.49	81.7	5.36	30.4	7.75	Sunny	0.2m	44
2009/09/22	Mid-Flood	US2	Upstream	10:47:19	Bottom	8.0	273.2	0.09	30.01	25.85	79.8	5.23	37.5	7.75	Sunny	0.2m	57
2009/09/22	Mid-Flood	US2	Upstream	10:52:19	Bottom	8.0	289.7	0.10	30.02	25.85	79.4	5.20	37.2	7.75	Sunny	0.2m	66
2009/09/22	Mid-Flood	US2	Upstream	10:48:09	Middle	4.9	304.5	0.12	30.02	25.83	79.5	5.21	29.5	7.75	Sunny	0.2m	34
2009/09/22	Mid-Flood	US2	Upstream	10:53:16	Middle	5.0	283.7	0.16	30.03	25.83	79.4	5.21	22.7	7.76	Sunny	0.2m	36

Summary Report: Impact Water Quality Monitoring for Dredging Activities

Sampling Date	Tide	Station	Area	Time	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temperature (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	Weather	Sea Condition	Suspended Solids (mg/L)
2009/09/22	Mid-Flood	US2	Upstream	10:49:07	Surface	1.1	274.0	0.31	30.13	25.21	86.0	5.64	9.9	7.76	Sunny	0.2m	13
2009/09/22	Mid-Flood	US2	Upstream	10:54:06	Surface	1.2	291.4	0.26	30.14	25.29	85.0	5.58	11.9	7.76	Sunny	0.2m	10
2009/09/24	Mid-Ebb	DS1	Downstream	16:09:00	Bottom	6.9	118.8	0.21	29.59	28.28	81.1	5.28	9.9	7.72	Sunny	0.3M	14
2009/09/24	Mid-Ebb	DS1	Downstream	16:13:21	Bottom	7.0	118.8	0.21	29.59	28.38	80.3	5.23	9.4	7.72	Sunny	0.3M	19
2009/09/24	Mid-Ebb	DS1	Downstream	16:09:44	Middle	4.5	119.8	0.21	29.66	28.01	84.9	5.53	8.6	7.73	Sunny	0.3M	17
2009/09/24	Mid-Ebb	DS1	Downstream	16:14:06	Middle	4.5	119.8	0.21	29.66	28.00	85.3	5.56	8.1	7.72	Sunny	0.3M	16
2009/09/24	Mid-Ebb	DS1	Downstream	16:10:29	Surface	1.1	115.5	0.30	29.67	27.98	86.3	5.62	7.8	7.73	Sunny	0.3M	17
2009/09/24	Mid-Ebb	DS1	Downstream	16:14:55	Surface	1.1	115.5	0.30	29.66	28.00	86.2	5.61	8.0	7.72	Sunny	0.3M	15
2009/09/24	Mid-Ebb	DS2	Downstream	15:58:10	Bottom	8.0	149.5	0.14	29.58	28.44	79.2	5.16	6.8	7.69	Sunny	0.3M	12
2009/09/24	Mid-Ebb	DS2	Downstream	16:05:07	Bottom	8.0	135.7	0.06	29.59	28.47	79.7	5.19	7.2	7.70	Sunny	0.3M	14
2009/09/24	Mid-Ebb	DS2	Downstream	15:59:00	Middle	5.0	79.9	0.06	29.69	27.96	87.1	5.67	8.6	7.70	Sunny	0.3M	13
2009/09/24	Mid-Ebb	DS2	Downstream	16:03:24	Middle	5.1	101.7	0.12	29.66	28.06	83.8	5.46	8.3	7.71	Sunny	0.3M	13
2009/09/24	Mid-Ebb	DS2	Downstream	15:59:46	Surface	1.1	101.4	0.14	29.72	27.86	90.7	5.91	8.7	7.71	Sunny	0.3M	12
2009/09/24	Mid-Ebb	DS2	Downstream	16:04:14	Surface	0.9	101.4	0.14	29.72	27.87	89.1	5.80	9.1	7.72	Sunny	0.3M	13
2009/09/24	Mid-Ebb	DS3	Downstream	15:47:31	Bottom	8.0	157.5	0.16	29.63	28.19	83.2	5.42	6.6	7.69	Sunny	0.3M	18
2009/09/24	Mid-Ebb	DS3	Downstream	15:51:59	Bottom	8.0	169.9	0.09	29.56	28.64	78.9	5.13	7.5	7.68	Sunny	0.3M	20
2009/09/24	Mid-Ebb	DS3	Downstream	15:48:16	Middle	5.0	104.8	0.09	29.71	27.93	87.4	5.69	11.8	7.70	Sunny	0.3M	19
2009/09/24	Mid-Ebb	DS3	Downstream	15:52:49	Middle	5.0	334.5	0.07	29.76	27.91	88.8	5.78	12.0	7.71	Sunny	0.3M	12
2009/09/24	Mid-Ebb	DS3	Downstream	15:49:04	Surface	1.0	122.2	0.11	29.84	27.73	92.4	6.01	12.8	7.70	Sunny	0.3M	11
2009/09/24	Mid-Ebb	DS3	Downstream	15:53:47	Surface	1.2	122.2	0.11	29.81	27.86	91.4	5.95	11.9	7.71	Sunny	0.3M	17
2009/09/24	Mid-Ebb	DS4	Downstream	15:36:13	Bottom	17.9	264.3	0.01	29.57	28.66	79.4	5.16	14.8	7.64	Sunny	0.3M	20
2009/09/24	Mid-Ebb	DS4	Downstream	15:41:11	Bottom	17.9	261.6	0.10	29.55	28.82	78.5	5.10	16.7	7.66	Sunny	0.3M	17
2009/09/24	Mid-Ebb	DS4	Downstream	15:37:10	Middle	10.1	137.8	0.07	29.64	28.28	84.0	5.47	10.8	7.65	Sunny	0.3M	17
2009/09/24	Mid-Ebb	DS4	Downstream	15:42:04	Middle	10.0	187.7	0.04	29.64	28.24	83.9	5.46	11.2	7.68	Sunny	0.3M	21
2009/09/24	Mid-Ebb	DS4	Downstream	15:38:04	Surface	1.3	303.7	0.08	29.81	27.84	91.5	5.95	10.8	7.66	Sunny	0.3M	25
2009/09/24	Mid-Ebb	DS4	Downstream	15:43:34	Surface	1.2	257.7	0.06	29.85	27.88	91.8	5.97	10.3	7.69	Sunny	0.3M	18
2009/09/24	Mid-Ebb	DS5	Downstream	15:25:30	Bottom	8.0	265.0	0.07	29.55	28.76	78.9	5.13	6.6	7.62	Sunny	0.3M	12
2009/09/24	Mid-Ebb	DS5	Downstream	15:30:24	Bottom	8.0	258.1	0.13	29.53	28.98	78.4	5.09	6.8	7.62	Sunny	0.3M	15
2009/09/24	Mid-Ebb	DS5	Downstream	15:26:24	Middle	5.0	16.2	0.15	29.76	28.07	88.3	5.74	8.1	7.64	Sunny	0.3M	17
2009/09/24	Mid-Ebb	DS5	Downstream	15:31:08	Middle	5.0	45.0	0.10	29.71	28.17	86.2	5.61	7.4	7.65	Sunny	0.3M	12
2009/09/24	Mid-Ebb	DS5	Downstream	15:27:09	Surface	1.1	11.8	0.22	29.86	27.70	93.1	6.06	11.0	7.64	Sunny	0.3M	13
2009/09/24	Mid-Ebb	DS5	Downstream	15:32:01	Surface	1.1	358.8	0.10	29.86	27.76	93.0	6.05	10.4	7.66	Sunny	0.3M	11
2009/09/24	Mid-Ebb	MW1	Ma Wan	17:43:11	Bottom	17.0	37.7	0.10	29.52	29.41	78.3	5.08	6.1	7.71	Sunny	0.3M	9
2009/09/24	Mid-Ebb	MW1	Ma Wan	17:47:24	Bottom	16.9	65.2	0.19	29.52	29.39	80.8	5.24	4.1	7.70	Sunny	0.3M	7

Summary Report: Impact Water Quality Monitoring for Dredging Activities

Sampling Date	Tide	Station	Area	Time	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temperature (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	Weather	Sea Condition	Suspended Solids (mg/L)
2009/09/24	Mid-Ebb	MW1	Ma Wan	17:44:05	Middle	9.5	8.6	0.10	29.54	29.34	78.4	5.08	5.6	7.70	Sunny	0.3M	8
2009/09/24	Mid-Ebb	MW1	Ma Wan	17:48:21	Middle	9.7	104.5	0.12	29.54	29.33	78.4	5.08	4.6	7.70	Sunny	0.3M	10
2009/09/24	Mid-Ebb	MW1	Ma Wan	17:45:12	Surface	1.0	57.9	0.31	29.56	29.27	79.3	5.14	4.4	7.70	Sunny	0.3M	10
2009/09/24	Mid-Ebb	MW1	Ma Wan	17:49:40	Surface	1.1	70.2	0.25	29.60	29.11	80.9	5.24	4.1	7.71	Sunny	0.3M	8
2009/09/24	Mid-Ebb	US1	Upstream	16:23:07	Bottom	6.1	134.6	0.18	29.72	27.81	86.1	5.61	12.1	7.72	Sunny	0.3M	18
2009/09/24	Mid-Ebb	US1	Upstream	16:26:57	Bottom	5.9	161.6	0.23	29.73	27.80	86.1	5.61	11.7	7.72	Sunny	0.3M	16
2009/09/24	Mid-Ebb	US1	Upstream	16:23:58	Middle	4.0	111.2	0.10	29.75	27.80	87.3	5.69	9.8	7.72	Sunny	0.3M	18
2009/09/24	Mid-Ebb	US1	Upstream	16:27:45	Middle	4.1	129.0	0.19	29.76	27.80	86.9	5.66	9.2	7.73	Sunny	0.3M	15
2009/09/24	Mid-Ebb	US1	Upstream	16:24:49	Surface	1.0	7.8	0.10	29.77	27.80	88.2	5.75	8.8	7.73	Sunny	0.3M	15
2009/09/24	Mid-Ebb	US1	Upstream	16:28:31	Surface	1.1	7.8	0.10	29.78	27.80	87.8	5.72	8.9	7.73	Sunny	0.3M	18
2009/09/24	Mid-Ebb	US2	Upstream	16:32:27	Bottom	7.0	112.5	0.21	29.56	28.08	84.3	5.50	16.0	7.75	Sunny	0.3M	12
2009/09/24	Mid-Ebb	US2	Upstream	16:36:41	Bottom	7.0	122.5	0.16	29.63	27.95	85.2	5.56	15.8	7.74	Sunny	0.3M	12
2009/09/24	Mid-Ebb	US2	Upstream	16:33:13	Middle	4.6	85.8	0.18	29.73	27.75	88.6	5.77	10.1	7.74	Sunny	0.3M	13
2009/09/24	Mid-Ebb	US2	Upstream	16:37:26	Middle	4.5	106.9	0.12	29.68	27.89	86.9	5.66	12.3	7.75	Sunny	0.3M	24
2009/09/24	Mid-Ebb	US2	Upstream	16:33:59	Surface	1.1	201.5	0.08	29.85	27.63	92.0	5.99	8.2	7.75	Sunny	0.3M	24
2009/09/24	Mid-Ebb	US2	Upstream	16:38:17	Surface	1.1	219.6	0.29	29.78	27.72	90.1	5.87	9.3	7.75	Sunny	0.3M	14
2009/09/24	Mid-Flood	DS1	Downstream	12:15:25	Bottom	6.0	335.4	0.30	29.53	27.52	78.3	5.13	17.9	7.74	Sunny	0.3M	19
2009/09/24	Mid-Flood	DS1	Downstream	12:19:43	Bottom	6.0	301.2	0.30	29.58	27.70	79.0	5.17	14.8	7.77	Sunny	0.3M	19
2009/09/24	Mid-Flood	DS1	Downstream	12:16:06	Middle	4.0	316.4	0.28	29.55	27.51	78.2	5.12	16.1	7.75	Sunny	0.3M	21
2009/09/24	Mid-Flood	DS1	Downstream	12:20:24	Middle	4.0	300.3	0.36	29.61	27.69	78.8	5.15	13.4	7.77	Sunny	0.3M	22
2009/09/24	Mid-Flood	DS1	Downstream	12:16:50	Surface	1.1	288.9	0.37	29.57	27.50	78.4	5.13	15.7	7.75	Sunny	0.3M	22
2009/09/24	Mid-Flood	DS1	Downstream	12:21:04	Surface	1.1	288.9	0.37	29.62	27.68	79.0	5.16	13.1	7.77	Sunny	0.3M	20
2009/09/24	Mid-Flood	DS2	Downstream	11:58:45	Bottom	7.0	337.3	0.19	29.66	27.29	79.7	5.21	16.3	7.74	Sunny	0.2M	17
2009/09/24	Mid-Flood	DS2	Downstream	12:04:42	Bottom	7.0	316.3	0.30	29.67	27.30	78.5	5.13	14.4	7.74	Sunny	0.2M	12
2009/09/24	Mid-Flood	DS2	Downstream	11:59:41	Middle	4.6	325.1	0.32	29.67	27.29	77.9	5.09	13.6	7.74	Sunny	0.2M	14
2009/09/24	Mid-Flood	DS2	Downstream	12:05:29	Middle	4.5	314.8	0.34	29.69	27.30	78.5	5.13	12.1	7.75	Sunny	0.2M	22
2009/09/24	Mid-Flood	DS2	Downstream	12:00:32	Surface	1.2	314.2	0.45	29.75	27.28	79.1	5.17	10.8	7.74	Sunny	0.2M	23
2009/09/24	Mid-Flood	DS2	Downstream	12:06:11	Surface	1.0	308.2	0.38	29.73	27.30	79.3	5.18	10.4	7.75	Sunny	0.2M	18
2009/09/24	Mid-Flood	DS3	Downstream	11:49:50	Bottom	7.2	332.6	0.29	29.68	27.15	75.1	4.92	22.4	7.73	Sunny	0.2M	26
2009/09/24	Mid-Flood	DS3	Downstream	11:52:13	Bottom	7.1	325.6	0.23	29.68	27.16	75.2	4.92	15.7	7.73	Sunny	0.2M	19
2009/09/24	Mid-Flood	DS3	Downstream	11:44:58	Middle	4.5	323.7	0.25	29.71	27.10	75.2	4.92	14.9	7.72	Sunny	0.2M	17
2009/09/24	Mid-Flood	DS3	Downstream	11:50:38	Middle	4.5	317.1	0.28	29.69	27.12	74.8	4.90	16.0	7.73	Sunny	0.2M	31
2009/09/24	Mid-Flood	DS3	Downstream	11:45:55	Surface	1.0	328.0	0.36	29.76	27.10	75.6	4.94	12.4	7.72	Sunny	0.2M	34
2009/09/24	Mid-Flood	DS3	Downstream	11:51:18	Surface	1.3	309.0	0.34	29.75	27.12	75.3	4.92	13.5	7.73	Sunny	0.2M	27

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Sampling Date	Tide	Station	Area	Time	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temperature (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	Weather	Sea Condition	Suspended Solids (mg/L)
2009/09/24	Mid-Flood	DS4	Downstream	11:30:18	Bottom	7.9	288.4	0.22	29.73	27.05	76.0	4.97	15.3	7.70	Sunny	0.2M	26
2009/09/24	Mid-Flood	DS4	Downstream	11:36:24	Bottom	8.0	340.0	0.23	29.70	27.06	75.4	4.94	18.2	7.71	Sunny	0.2M	20
2009/09/24	Mid-Flood	DS4	Downstream	11:31:01	Middle	5.0	313.3	0.24	29.76	27.05	76.5	5.00	13.3	7.70	Sunny	0.2M	18
2009/09/24	Mid-Flood	DS4	Downstream	11:37:15	Middle	5.0	339.4	0.26	29.72	27.03	74.5	4.88	16.7	7.71	Sunny	0.2M	24
2009/09/24	Mid-Flood	DS4	Downstream	11:32:03	Surface	1.2	299.8	0.37	29.77	27.05	76.8	5.02	13.0	7.71	Sunny	0.2M	24
2009/09/24	Mid-Flood	DS4	Downstream	11:38:05	Surface	1.1	328.0	0.36	29.75	26.99	74.5	4.88	16.7	7.71	Sunny	0.2M	26
2009/09/24	Mid-Flood	DS5	Downstream	11:17:32	Bottom	8.0	335.4	0.30	29.71	26.98	74.4	4.87	10.8	7.69	Sunny	0.2M	12
2009/09/24	Mid-Flood	DS5	Downstream	11:21:55	Bottom	8.0	338.7	0.24	29.71	26.96	73.3	4.80	10.0	7.68	Sunny	0.2M	11
2009/09/24	Mid-Flood	DS5	Downstream	11:18:20	Middle	5.1	331.7	0.30	29.75	26.88	76.1	4.98	7.9	7.70	Sunny	0.2M	12
2009/09/24	Mid-Flood	DS5	Downstream	11:22:42	Middle	5.0	327.4	0.31	29.77	26.89	75.3	4.93	7.8	7.69	Sunny	0.2M	17
2009/09/24	Mid-Flood	DS5	Downstream	11:19:09	Surface	1.1	326.1	0.22	29.78	26.86	76.6	5.02	6.7	7.70	Sunny	0.2M	18
2009/09/24	Mid-Flood	DS5	Downstream	11:23:27	Surface	1.1	326.1	0.22	29.81	26.88	76.4	5.00	7.3	7.70	Sunny	0.2M	12
2009/09/24	Mid-Flood	MW1	Ma Wan	9:50:43	Bottom	16.9	80.5	0.27	29.48	29.10	69.2	4.49	8.8	7.64	Sunny	0.2M	13
2009/09/24	Mid-Flood	MW1	Ma Wan	9:54:42	Bottom	16.9	61.3	0.26	29.45	29.05	70.3	4.57	8.6	7.69	Sunny	0.2M	5
2009/09/24	Mid-Flood	MW1	Ma Wan	9:51:49	Middle	9.4	73.7	0.25	29.47	28.91	70.6	4.59	8.0	7.67	Sunny	0.2M	7
2009/09/24	Mid-Flood	MW1	Ma Wan	9:55:34	Middle	9.6	64.8	0.33	29.47	28.94	70.6	4.59	7.4	7.70	Sunny	0.2M	14
2009/09/24	Mid-Flood	MW1	Ma Wan	9:52:44	Surface	1.1	59.7	0.18	29.59	27.68	78.2	5.11	4.1	7.66	Sunny	0.2M	13
2009/09/24	Mid-Flood	MW1	Ma Wan	9:56:27	Surface	1.1	302.1	0.39	29.58	27.79	76.4	4.99	4.7	7.68	Sunny	0.2M	12
2009/09/24	Mid-Flood	US1	Upstream	12:29:45	Bottom	5.0	311.2	0.24	29.56	27.98	77.7	5.07	21.2	7.77	Sunny	0.3M	14
2009/09/24	Mid-Flood	US1	Upstream	12:34:41	Bottom	5.1	289.2	0.19	29.56	27.98	77.7	5.07	22.3	7.77	Sunny	0.3M	12
2009/09/24	Mid-Flood	US1	Upstream	12:30:39	Middle	3.5	286.9	0.39	29.66	27.75	79.3	5.18	12.6	7.77	Sunny	0.3M	12
2009/09/24	Mid-Flood	US1	Upstream	12:35:25	Middle	3.5	286.9	0.39	29.60	27.85	78.4	5.12	13.5	7.76	Sunny	0.3M	34
2009/09/24	Mid-Flood	US1	Upstream	12:31:27	Surface	1.2	292.8	0.43	29.71	27.64	80.4	5.25	9.8	7.77	Sunny	0.3M	35
2009/09/24	Mid-Flood	US1	Upstream	12:36:08	Surface	1.1	292.8	0.43	29.74	27.59	80.3	5.24	9.1	7.76	Sunny	0.3M	14
2009/09/24	Mid-Flood	US2	Upstream	12:41:50	Bottom	7.0	291.8	0.17	29.59	27.87	78.8	5.15	18.9	7.77	Sunny	0.3M	13
2009/09/24	Mid-Flood	US2	Upstream	12:46:07	Bottom	6.9	282.0	0.26	29.60	27.85	79.3	5.18	14.9	7.78	Sunny	0.3M	16
2009/09/24	Mid-Flood	US2	Upstream	12:42:41	Middle	4.6	261.0	0.30	29.61	27.81	79.2	5.17	12.5	7.77	Sunny	0.3M	14
2009/09/24	Mid-Flood	US2	Upstream	12:46:55	Middle	4.4	287.4	0.25	29.63	27.80	80.6	5.26	9.8	7.77	Sunny	0.3M	30
2009/09/24	Mid-Flood	US2	Upstream	12:43:28	Surface	1.0	264.9	0.42	29.72	27.60	83.0	5.41	7.8	7.78	Sunny	0.3M	31
2009/09/24	Mid-Flood	US2	Upstream	12:47:43	Surface	1.2	282.4	0.34	29.70	27.67	83.4	5.44	7.5	7.78	Sunny	0.3M	14