

Summary Table: Impact Water Quality Monitoring for Dredging Activities

Sampling Date	Tide	Station	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temp (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	Suspended Solids (mg/L)
2010/08/02	Mid-Ebb	DS1	B	6	72.1	0.21	28.43	21.94	73.71	5.07	10.71	7.76	12
2010/08/02	Mid-Ebb	DS1	B	6	120.4	0.26	28.34	22.39	72.51	4.98	11.92	7.74	15
2010/08/02	Mid-Ebb	DS2	B	6	115.8	0.33	28.47	21.67	72.59	5	12.42	7.76	15
2010/08/02	Mid-Ebb	DS2	B	6	115.8	0.33	28.39	22.01	73.58	5.06	13.64	7.75	17
2010/08/02	Mid-Ebb	DS3	B	14	278.1	0.02	27.25	26.58	54.92	3.75	11.41	7.71	14
2010/08/02	Mid-Ebb	DS3	B	14.1	278.1	0.02	27.28	26.52	57.2	3.91	11.31	7.72	14
2010/08/02	Mid-Ebb	DS4	B	12.9	330	0.05	27.36	26.22	61.86	4.23	12.83	7.72	16
2010/08/02	Mid-Ebb	DS4	B	13	330	0.05	27.34	26.28	58.37	3.99	13.43	7.72	14
2010/08/02	Mid-Ebb	DS5	B	7.1	128.9	0.35	28.08	23.36	71.09	4.88	9.49	7.76	10
2010/08/02	Mid-Ebb	DS5	B	6.9	94.9	0.2	27.98	23.86	69.89	4.79	8.59	7.76	9
2010/08/02	Mid-Ebb	MW1	B	19	350	0.18	26.57	28.57	60.62	4.15	4.85	7.76	6
2010/08/02	Mid-Ebb	MW1	B	19.2	59.1	0.47	26.61	28.46	61	4.17	4.44	7.76	7
2010/08/02	Mid-Ebb	US1	B	8.2	76	0.15	28.32	22.46	69.84	4.8	11.72	7.74	14
2010/08/02	Mid-Ebb	US1	B	7.9	160.6	0.06	28.3	22.58	70.93	4.87	13.33	7.74	12
2010/08/02	Mid-Ebb	US2	B	7.1	194.5	0.03	28.61	20.98	77.77	5.36	4.95	7.77	6
2010/08/02	Mid-Ebb	US2	B	7	110.6	0.1	28.32	22.64	71.57	4.91	8.89	7.72	6
2010/08/02	Mid-Flood	DS1	B	8	281.1	0.18	28.2	22.74	69.2	4.76	18.28	7.72	23
2010/08/02	Mid-Flood	DS1	B	8.1	220.3	0.21	28.23	22.65	73	5.02	17.57	7.72	22
2010/08/02	Mid-Flood	DS2	B	7	311.8	0.36	28.34	22.39	67.1	4.61	12.32	7.71	17
2010/08/02	Mid-Flood	DS2	B	7	280.7	0.3	28.35	22.28	71.1	4.89	12.02	7.72	14
2010/08/02	Mid-Flood	DS3	B	7	324	0.41	28.65	21.35	68.9	4.74	8.08	7.7	9
2010/08/02	Mid-Flood	DS3	B	7	311.8	0.36	28.55	21.66	68.1	4.68	10.5	7.69	11
2010/08/02	Mid-Flood	DS4	B	6.9	312.3	0.3	28.6	21.22	69.8	4.81	4.75	7.7	7
2010/08/02	Mid-Flood	DS4	B	6.9	312.3	0.3	28.57	21.32	69.4	4.78	5.25	7.7	9
2010/08/02	Mid-Flood	DS5	B	6.8	342.3	0.3	28.77	20.15	74.4	5.14	4.34	7.71	4
2010/08/02	Mid-Flood	DS5	B	6.9	334.2	0.28	28.89	19.5	76.5	5.29	4.14	7.72	5
2010/08/02	Mid-Flood	MW1	B	19	64.8	0.27	26.34	29.25	50.7	3.47	8.89	7.72	5
2010/08/02	Mid-Flood	MW1	B	19.1	64.8	0.27	26.07	30.21	52.9	3.61	9.39	7.72	4
2010/08/02	Mid-Flood	US1	B	5.9	301	0.26	28.16	22.87	66.1	4.54	15.05	7.71	18
2010/08/02	Mid-Flood	US1	B	6	336.5	0.25	28.18	22.84	71.3	4.9	14.24	7.72	17
2010/08/02	Mid-Flood	US2	B	5.2	292.6	0.32	28.21	22.52	71	4.89	11.01	7.74	15
2010/08/02	Mid-Flood	US2	B	5	288.2	0.3	28.15	22.89	72.8	5	11.92	7.73	12
2010/08/02	Mid-Ebb	DS1	M	3.9	133.3	0.36	29.09	18.77	90.67	6.28	5.76	7.85	7
2010/08/02	Mid-Ebb	DS1	M	3.7	115.7	0.38	29.13	18.54	92.65	6.42	5.15	7.86	7
2010/08/02	Mid-Ebb	DS2	M	3.8	114.6	0.49	29.31	18.42	97.71	6.75	4.95	7.88	8
2010/08/02	Mid-Ebb	DS2	M	3.8	94.3	0.23	29.06	18.98	93.51	6.47	4.85	7.86	6
2010/08/02	Mid-Ebb	DS3	M	7.9	81.3	0.12	27.78	24.89	69.76	4.77	13.94	7.75	12
2010/08/02	Mid-Ebb	DS3	M	8	153.6	0.16	27.79	24.52	64.07	4.39	15.66	7.75	14
2010/08/02	Mid-Ebb	DS4	M	7.6	141.4	0.1	27.88	24.14	63.95	4.39	9.29	7.75	15
2010/08/02	Mid-Ebb	DS4	M	7.4	229	0.06	28	23.63	67.92	4.66	11.51	7.76	15
2010/08/02	Mid-Ebb	DS5	M	4.3	114.3	0.36	29.1	18.8	92.2	6.38	4.44	7.87	8
2010/08/02	Mid-Ebb	DS5	M	4.5	114.3	0.36	28.88	20.23	89.7	6.18	4.85	7.84	7
2010/08/02	Mid-Ebb	MW1	M	10.4	59.9	0.07	29.17	20.59	124.31	8.51	4.14	8.08	6
2010/08/02	Mid-Ebb	MW1	M	10.3	318.7	0.08	29.07	20.86	119.91	8.21	4.14	8.05	6
2010/08/02	Mid-Ebb	US1	M	5.1	90.4	0.14	28.5	20.99	73.53	5.08	9.39	7.77	11
2010/08/02	Mid-Ebb	US1	M	4.9	121.7	0.31	28.75	19.67	78.71	5.45	6.36	7.82	11
2010/08/02	Mid-Ebb	US2	M	4.5	111.4	0.15	29.34	17.44	96.43	6.7	4.75	7.87	4
2010/08/02	Mid-Ebb	US2	M	4.7	111	0.36	29.32	17.42	92.93	6.46	4.85	7.85	6
2010/08/02	Mid-Flood	DS1	M	5	286.1	0.51	28.49	21.55	74.3	5.12	9.39	7.74	17
2010/08/02	Mid-Flood	DS1	M	5.1	309.5	0.38	29	20.6	89.2	6.12	7.17	7.8	18
2010/08/02	Mid-Flood	DS2	M	4.5	286.2	0.48	28.59	21.03	73	5.03	8.69	7.75	7
2010/08/02	Mid-Flood	DS2	M	4.6	304.1	0.53	29.15	18.16	86	5.97	6.36	7.82	8
2010/08/02	Mid-Flood	DS3	M	4.4	317.3	0.36	29.23	17.74	83.2	5.78	4.95	7.77	7
2010/08/02	Mid-Flood	DS3	M	4.4	286.2	0.48	29.25	17.63	83.1	5.77	4.85	7.78	6
2010/08/02	Mid-Flood	DS4	M	4.4	297.7	0.34	29.26	17.54	83.9	5.83	4.55	7.77	5

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2010/08/02	Mid-Flood	DS4	M	4.5	297.7	0.34	29.31	17.18	84	5.84	4.65	7.78	4
2010/08/02	Mid-Flood	DS5	M	4.6	293.7	0.2	29.08	18.45	79.1	5.49	4.85	7.74	8
2010/08/02	Mid-Flood	DS5	M	4.6	293.7	0.2	29.16	18.05	81.6	5.67	4.85	7.75	6
2010/08/02	Mid-Flood	MW1	M	10.4	82.9	0.24	27.63	24.66	66	4.53	4.44	7.75	4
2010/08/02	Mid-Flood	MW1	M	10.6	49.6	0.21	27.62	24.95	65.2	4.47	4.04	7.76	6
2010/08/02	Mid-Flood	US1	M	3.9	295.1	0.52	29.16	18.21	100.3	6.96	4.65	7.86	14
2010/08/02	Mid-Flood	US1	M	4	290.7	0.58	28.52	21.31	74.1	5.11	8.79	7.74	13
2010/08/02	Mid-Flood	US2	M	3.5	286.5	0.37	28.66	20.55	75.6	5.22	6.57	7.76	13
2010/08/02	Mid-Flood	US2	M	3.6	286.5	0.37	28.21	22.5	69.2	4.76	10.91	7.74	14
2010/08/02	Mid-Ebb	DS1	T	1.2	129.3	0.38	29.79	13.61	99.34	6.99	5.05	7.9	2
2010/08/02	Mid-Ebb	DS1	T	1.2	129.3	0.38	29.59	14.48	95.34	6.7	4.95	7.88	3
2010/08/02	Mid-Ebb	DS2	T	1.2	157.4	0.83	30.26	12.11	111.27	7.84	5.05	7.98	4
2010/08/02	Mid-Ebb	DS2	T	1.2	96.6	0.65	29.99	12.15	109.46	7.74	5.15	7.96	4
2010/08/02	Mid-Ebb	DS3	T	1.3	111.4	0.49	30.96	6.99	103.74	7.42	5.45	8.03	4
2010/08/02	Mid-Ebb	DS3	T	1.2	108.3	0.49	31.03	7.19	112.99	8.07	5.45	8.04	4
2010/08/02	Mid-Ebb	DS4	T	1.1	108.3	0.49	30.59	9.46	121.42	8.63	5.76	8.11	5
2010/08/02	Mid-Ebb	DS4	T	1.1	76.9	0.49	30.2	10.81	112.43	7.98	5.66	7.99	4
2010/08/02	Mid-Ebb	DS5	T	1.3	109.2	0.76	30.28	11.79	121.86	8.59	5.25	8.08	5
2010/08/02	Mid-Ebb	DS5	T	1.2	109.2	0.76	30.71	11.57	149.92	10.51	5.45	8.28	5
2010/08/02	Mid-Ebb	MW1	T	1.1	93.4	0.39	30.5	17.26	187.51	12.79	4.44	8.38	9
2010/08/02	Mid-Ebb	MW1	T	1.3	95.4	0.52	30.51	17.17	183.99	12.55	4.55	8.41	7
2010/08/02	Mid-Ebb	US1	T	1.3	97.6	0.37	30.33	9.63	111.74	7.97	4.95	8	4
2010/08/02	Mid-Ebb	US1	T	1.2	97.6	0.37	30.1	10.77	112.13	7.98	5.15	8.02	4
2010/08/02	Mid-Ebb	US2	T	0.9	133.6	0.42	30.19	8.94	105.71	7.58	5.15	7.98	5
2010/08/02	Mid-Ebb	US2	T	1.3	133.6	0.42	30.16	10.2	110.49	7.88	5.15	8.01	4
2010/08/02	Mid-Flood	DS1	T	1.2	319.2	0.47	30.1	14.71	121	8.42	5.15	8.02	6
2010/08/02	Mid-Flood	DS1	T	1.1	319.2	0.47	30.11	14.69	118.2	8.23	5.15	8.03	6
2010/08/02	Mid-Flood	DS2	T	1.3	308.5	0.54	30.38	11.03	112	7.92	4.95	7.96	7
2010/08/02	Mid-Flood	DS2	T	1.2	308.5	0.54	30.65	10.97	112.8	7.94	4.75	7.96	6
2010/08/02	Mid-Flood	DS3	T	0.9	358.1	0.18	30.22	9.93	104.8	7.47	5.05	7.9	4
2010/08/02	Mid-Flood	DS3	T	1.4	310.6	0.4	30.07	12.46	106.9	7.54	4.95	7.91	4
2010/08/02	Mid-Flood	DS4	T	1.3	284.8	0.09	30.09	10.91	107.8	7.66	5.05	7.91	5
2010/08/02	Mid-Flood	DS4	T	1.1	284.8	0.09	29.86	13.34	101	7.11	5.05	7.86	5
2010/08/02	Mid-Flood	DS5	T	1.1	315.4	0.34	30.33	11.2	109	7.71	4.34	7.93	4
2010/08/02	Mid-Flood	DS5	T	1.1	315.4	0.34	30.21	11.18	109.5	7.76	4.95	7.94	5
2010/08/02	Mid-Flood	MW1	T	1.2	168.8	0.15	29.43	16.85	88.6	6.16	4.44	7.88	5
2010/08/02	Mid-Flood	MW1	T	1.1	168.8	0.15	29.57	16.62	101.6	7.06	4.24	7.91	4
2010/08/02	Mid-Flood	US1	T	1.2	282.3	0.49	29.67	16.89	121.5	8.42	5.56	8.02	7
2010/08/02	Mid-Flood	US1	T	1.3	282.3	0.49	29.65	16.97	122.2	8.46	5.96	8.03	7
2010/08/02	Mid-Flood	US2	T	1.2	285.7	0.54	29.51	16.74	107	7.44	4.75	7.98	7
2010/08/02	Mid-Flood	US2	T	1.3	285.7	0.54	29.59	16.68	115.8	8.04	5.05	8	5
2010/08/04	Mid-Ebb	DS1	B	5.8	42.1	0.17	27.65	25.66	46.87	3.2	13.84	7.65	21
2010/08/04	Mid-Ebb	DS1	B	6.1	94.4	0.23	27.64	25.75	46.57	3.18	18.18	7.65	18
2010/08/04	Mid-Ebb	DS2	B	5	100.4	0.3	29.34	14.99	86.84	6.11	5.25	8.02	9
2010/08/04	Mid-Ebb	DS2	B	5.1	104.7	0.36	28.72	20.89	74.97	5.16	4.24	7.85	9
2010/08/04	Mid-Ebb	DS3	B	13.9	45.9	0.1	26.06	29.62	43.86	3.01	13.13	7.72	16
2010/08/04	Mid-Ebb	DS3	B	14	45.9	0.1	26.03	29.72	43.45	2.98	12.83	7.71	16
2010/08/04	Mid-Ebb	DS4	B	11.9	99.7	0.08	26.28	29.04	51.22	3.51	8.69	7.73	10
2010/08/04	Mid-Ebb	DS4	B	11.7	88.3	0.37	26.34	28.9	48.42	3.32	8.89	7.73	12
2010/08/04	Mid-Ebb	DS5	B	6.9	114	0.22	27.61	25.36	50.21	3.44	12.02	7.68	14
2010/08/04	Mid-Ebb	DS5	B	6.8	121.1	0.22	27.63	25.26	51.7	3.54	12.22	7.67	16
2010/08/04	Mid-Ebb	MW1	B	18.9	30	0.2	24.94	32.02	50.69	3.49	5.05	7.76	10
2010/08/04	Mid-Ebb	MW1	B	18.9	30	0.2	24.92	32.08	52.08	3.59	5.96	7.8	8
2010/08/04	Mid-Ebb	US1	B	9	99.9	0.11	27.63	25.74	44.09	3.01	10.61	7.68	13
2010/08/04	Mid-Ebb	US1	B	8.8	148.5	0.07	27.63	25.76	49.17	3.36	10.71	7.68	12

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2010/08/04	Mid-Ebb	US2	B	11.9	75.3	0.18	27.54	25.79	52.48	3.59	7.88	7.71	9
2010/08/04	Mid-Ebb	US2	B	12.1	109.4	0.15	27.54	25.75	51.38	3.51	7.68	7.71	9
2010/08/04	Mid-Flood	DS1	B	7.8	318.9	0.14	28.19	22.75	64.76	4.45	97.87	7.74	104
2010/08/04	Mid-Flood	DS1	B	7.9	37.5	0.1	28.22	22.59	69.17	4.76	62.62	7.75	114
2010/08/04	Mid-Flood	DS2	B	5.9	319	0.69	28.35	21.68	69.86	4.82	8.69	7.74	12
2010/08/04	Mid-Flood	DS2	B	6.1	342.4	0.74	28.24	22.33	72.16	4.97	9.6	7.73	11
2010/08/04	Mid-Flood	DS3	B	6.9	158.2	0.09	27.99	23.63	63.35	4.35	5.86	7.69	8
2010/08/04	Mid-Flood	DS3	B	7	280.4	0.28	27.97	23.85	63.35	4.34	6.26	7.69	7
2010/08/04	Mid-Flood	DS4	B	6.9	223.8	0.23	28.64	20.51	93.75	6.48	4.75	7.89	8
2010/08/04	Mid-Flood	DS4	B	7	262.1	0.29	28.56	20.86	91.66	6.33	5.56	7.87	10
2010/08/04	Mid-Flood	DS5	B	6.9	169.7	0.43	28.73	20.05	89.84	6.21	5.35	7.85	10
2010/08/04	Mid-Flood	DS5	B	6.9	265.7	0.53	28.77	20.35	107.05	7.39	6.67	7.93	8
2010/08/04	Mid-Flood	MW1	B	18.9	126.4	0.07	24.77	32.13	46.39	3.21	8.08	7.69	13
2010/08/04	Mid-Flood	MW1	B	18.3	353.7	0.03	24.78	32.13	51.6	3.56	7.98	7.69	12
2010/08/04	Mid-Flood	US1	B	6.1	297.5	0.66	28.62	20.45	85.89	5.94	23.13	7.87	28
2010/08/04	Mid-Flood	US1	B	6.1	280.7	0.39	28.52	20.89	85.49	5.91	13.43	7.85	32
2010/08/04	Mid-Flood	US2	B	5.7	300.5	0.3	28.21	22.28	75.49	5.2	12.83	7.81	14
2010/08/04	Mid-Flood	US2	B	5.7	300.5	0.3	28.45	21.1	83	5.73	7.98	7.85	16
2010/08/04	Mid-Ebb	DS1	M	3.9	132.7	0.23	27.83	24.95	51.66	3.53	6.67	7.66	12
2010/08/04	Mid-Ebb	DS1	M	4.1	80.5	0.35	27.78	25.05	49.86	3.41	9.6	7.67	13
2010/08/04	Mid-Ebb	DS2	M	3.3	90.3	0.4	29.5	15.62	106.48	7.45	5.05	8.04	9
2010/08/04	Mid-Ebb	DS2	M	3.5	90.2	0.57	29.27	14.96	96.79	6.82	4.95	7.99	7
2010/08/04	Mid-Ebb	DS3	M	8.1	181.3	0.05	26.83	27.73	43.56	2.98	11.41	7.69	16
2010/08/04	Mid-Ebb	DS3	M	8	244.3	0.06	27.28	26.26	47.44	3.25	13.74	7.69	17
2010/08/04	Mid-Ebb	DS4	M	6.9	95.5	0.17	27.52	25.51	49.72	3.4	12.02	7.69	12
2010/08/04	Mid-Ebb	DS4	M	6.8	102.4	0.25	27.69	24.91	50.32	3.45	10.81	7.7	14
2010/08/04	Mid-Ebb	DS5	M	4.5	78.8	0.38	28.3	22.64	66.55	4.57	7.17	7.76	8
2010/08/04	Mid-Ebb	DS5	M	3.6	64.9	0.43	29.68	12.19	107.88	7.67	5.66	8.08	8
2010/08/04	Mid-Ebb	MW1	M	10.5	102.7	0.18	27.86	23.45	97.58	6.72	4.04	8.07	7
2010/08/04	Mid-Ebb	MW1	M	10.6	290.5	0.08	27.63	24.3	91.57	6.3	3.74	8.06	6
2010/08/04	Mid-Ebb	US1	M	5.5	85	0.25	27.94	23.46	56.05	3.85	3.74	7.76	8
2010/08/04	Mid-Ebb	US1	M	5.6	109.4	0.35	27.85	23.57	46.97	3.23	4.85	7.7	10
2010/08/04	Mid-Ebb	US2	M	6.9	84.6	0.3	27.63	24.91	59.46	4.08	4.24	7.76	8
2010/08/04	Mid-Ebb	US2	M	7.1	85.4	0.13	27.84	24.7	46.59	3.19	5.66	7.67	6
2010/08/04	Mid-Flood	DS1	M	4.9	316.1	0.35	28.54	21.02	76.87	5.3	76.26	7.81	75
2010/08/04	Mid-Flood	DS1	M	4.7	322.5	0.39	28.82	19.62	90.39	6.26	74.74	7.87	85
2010/08/04	Mid-Flood	DS2	M	4	333.2	0.26	29.36	15.84	113.39	7.94	6.06	8.05	7
2010/08/04	Mid-Flood	DS2	M	4	318	0.46	29.22	16.29	77.97	5.46	6.16	7.95	8
2010/08/04	Mid-Flood	DS3	M	4.5	277.9	0.19	28.51	20.83	81.06	5.6	4.55	7.83	6
2010/08/04	Mid-Flood	DS3	M	4.4	280	0.4	28.67	20.14	89.37	6.18	4.85	7.88	7
2010/08/04	Mid-Flood	DS4	M	4.4	245.4	0.28	28.68	20.27	94.86	6.56	4.55	7.9	8
2010/08/04	Mid-Flood	DS4	M	4.4	251.1	0.31	28.64	20.46	93.26	6.44	4.75	7.9	6
2010/08/04	Mid-Flood	DS5	M	4.6	278	0.76	29.74	17.22	154.87	10.7	5.25	8.26	12
2010/08/04	Mid-Flood	DS5	M	4.5	241.6	0.48	29.82	17.22	160.48	11.07	5.96	8.29	10
2010/08/04	Mid-Flood	MW1	M	10.7	287.5	0.19	25.7	29.94	56.1	3.86	4.65	7.73	8
2010/08/04	Mid-Flood	MW1	M	10.6	329.6	0.13	26.32	28.33	63.62	4.38	6.97	7.77	9
2010/08/04	Mid-Flood	US1	M	4	301.4	0.52	30	13.14	153.66	10.81	10.3	8.33	16
2010/08/04	Mid-Flood	US1	M	3.8	310.8	0.64	29.4	16.86	125.54	8.74	12.42	8.1	16
2010/08/04	Mid-Flood	US2	M	4	291.6	0.68	28.82	19.21	94.11	6.53	5.66	7.92	10
2010/08/04	Mid-Flood	US2	M	4	291.6	0.68	29.12	17.89	110.73	7.7	5.15	8.02	10
2010/08/04	Mid-Ebb	DS1	T	1.1	28.1	0.16	29.21	14.81	91.14	6.44	5.35	7.91	6
2010/08/04	Mid-Ebb	DS1	T	1.3	104	0.46	29.44	15.68	99.71	6.98	5.05	8.02	6
2010/08/04	Mid-Ebb	DS2	T	1.3	104	0.46	29.69	10.65	102.59	7.35	5.86	7.98	7
2010/08/04	Mid-Ebb	DS2	T	1.4	87.7	0.65	29.69	10.84	102.18	7.32	6.06	7.97	6
2010/08/04	Mid-Ebb	DS3	T	1.1	87.6	0.49	29.84	9.63	105.55	7.59	6.06	8	7

Summary Table: Impact Water Quality Monitoring for Dredging Activities

Sampling Date	Tide	Station	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temp (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	Suspended Solids (mg/L)
2010/08/04	Mid-Ebb	DS3	T	1.2	87.6	0.49	29.76	10.58	102.95	7.37	5.96	8	6
2010/08/04	Mid-Ebb	DS4	T	1.2	87.3	0.73	29.87	9.97	108.11	7.75	5.76	8.03	6
2010/08/04	Mid-Ebb	DS4	T	1.3	87.3	0.73	29.87	10.59	110	7.86	5.96	8.07	8
2010/08/04	Mid-Ebb	DS5	T	1.2	77.8	0.69	29.9	10.47	115.06	8.23	5.86	8.11	9
2010/08/04	Mid-Ebb	DS5	T	1.2	77.8	0.69	29.92	10.18	115.05	8.24	6.06	8.08	8
2010/08/04	Mid-Ebb	MW1	T	1.3	89.7	0.51	29.68	13.96	136.37	9.6	5.15	8.36	9
2010/08/04	Mid-Ebb	MW1	T	1.3	89.7	0.51	29.68	13.77	137.85	9.71	5.45	8.38	8
2010/08/04	Mid-Ebb	US1	T	1.2	105.8	0.45	29.82	8.54	99.34	7.19	5.96	7.95	6
2010/08/04	Mid-Ebb	US1	T	1.1	105.8	0.45	29.82	8.7	99.53	7.19	6.16	7.93	6
2010/08/04	Mid-Ebb	US2	T	1.1	134.9	0.4	29.8	8.53	101.56	7.35	5.86	7.96	6
2010/08/04	Mid-Ebb	US2	T	1.4	134.9	0.4	29.84	10.7	97.86	6.99	6.16	7.99	5
2010/08/04	Mid-Flood	DS1	T	1.2	318	0.41	31.05	9.48	165.56	11.67	6.97	8.42	15
2010/08/04	Mid-Flood	DS1	T	1.3	318	0.41	31.07	9.4	167.57	11.81	6.67	8.44	13
2010/08/04	Mid-Flood	DS2	T	1.1	354.4	0.43	30.39	10.97	149.42	10.57	7.17	8.3	8
2010/08/04	Mid-Flood	DS2	T	1.3	354.4	0.43	29.99	11.85	130.11	9.22	7.27	8.15	10
2010/08/04	Mid-Flood	DS3	T	1	296.5	0.29	30.26	13.05	174.83	12.25	6.87	8.4	11
2010/08/04	Mid-Flood	DS3	T	1.2	354.4	0.43	29.91	14.12	157.32	11.02	6.77	8.33	12
2010/08/04	Mid-Flood	DS4	T	1.2	265.6	0.49	29.69	16.71	155.29	10.76	5.86	8.25	10
2010/08/04	Mid-Flood	DS4	T	1.1	314.5	0.34	29.06	18.34	114.57	7.95	5.45	8.01	11
2010/08/04	Mid-Flood	DS5	T	1	276.2	0.67	30.59	11.79	161.48	11.33	6.97	8.36	12
2010/08/04	Mid-Flood	DS5	T	1.2	276.2	0.67	30.92	9.3	144.58	10.22	7.68	8.27	10
2010/08/04	Mid-Flood	MW1	T	0.9	66.4	0.13	30.07	16.39	192.36	13.27	5.66	8.57	12
2010/08/04	Mid-Flood	MW1	T	1.1	80.5	0.11	28.94	18.3	143.87	10.01	6.16	8.18	12
2010/08/04	Mid-Flood	US1	T	1.2	306.2	0.48	30.7	10.88	171.48	12.07	7.78	8.42	20
2010/08/04	Mid-Flood	US1	T	1.4	306.2	0.48	30.83	9.14	167.49	11.87	6.26	8.43	26
2010/08/04	Mid-Flood	US2	T	1.3	298.2	0.75	30.86	10.33	198.13	13.95	6.46	8.58	10
2010/08/04	Mid-Flood	US2	T	1.3	298.2	0.75	30.81	11.61	200.65	14.04	6.57	8.63	12
2010/08/06	Mid-Ebb	DS1	B	4.8	79.9	0.4	26.57	28.39	43.94	3.01	8.28	7.72	11
2010/08/06	Mid-Ebb	DS1	B	5	79.9	0.4	26.79	28.19	53.95	3.68	6.46	7.76	12
2010/08/06	Mid-Ebb	DS2	B	5.9	75.7	0.22	26.32	30.23	39.82	2.71	11.82	7.7	13
2010/08/06	Mid-Ebb	DS2	B	6.1	75.7	0.22	26.34	30.09	38.92	2.65	10.4	7.7	15
2010/08/06	Mid-Ebb	DS3	B	13	68.6	0.31	26.33	30.21	38.02	2.59	14.24	7.7	19
2010/08/06	Mid-Ebb	DS3	B	13.1	68.6	0.31	26.34	30.17	39.35	2.68	15.05	7.7	21
2010/08/06	Mid-Ebb	DS4	B	12.8	68.6	0.31	26.44	29.79	41.49	2.82	11.51	7.7	12
2010/08/06	Mid-Ebb	DS4	B	12.9	83.9	0.14	26.44	29.79	39.57	2.69	15.45	7.69	13
2010/08/06	Mid-Ebb	DS5	B	6.9	79.2	0.28	26.56	29.27	41.41	2.82	6.67	7.72	13
2010/08/06	Mid-Ebb	DS5	B	6.7	79.2	0.28	26.53	29.41	44.56	3.03	6.46	7.71	11
2010/08/06	Mid-Ebb	MW1	B	19.2	42.9	0.44	24.83	32.38	36.6	2.52	4.75	7.71	12
2010/08/06	Mid-Ebb	MW1	B	18.7	42.9	0.44	24.93	32.16	37.72	2.6	3.84	7.74	10
2010/08/06	Mid-Ebb	US1	B	6.3	65.6	0.28	26.3	30.21	38.25	2.6	6.57	7.69	8
2010/08/06	Mid-Ebb	US1	B	6.1	121.3	0.37	26.65	28.68	47.75	3.26	5.25	7.7	8
2010/08/06	Mid-Ebb	US2	B	5.8	69.9	0.25	26.93	27.29	50.23	3.44	3.33	7.78	10
2010/08/06	Mid-Ebb	US2	B	6.1	154.9	0.22	26.34	29.69	37.23	2.54	6.97	7.68	8
2010/08/06	Mid-Flood	DS1	B	8.1	276.2	0.25	27.05	27.23	68.71	4.7	16.26	7.89	25
2010/08/06	Mid-Flood	DS1	B	8.1	319.5	0.15	27.12	27.06	78.87	5.39	11.62	7.91	26
2010/08/06	Mid-Flood	DS2	B	6.1	279.1	0.12	26.77	28.14	54.31	3.71	11.41	7.81	16
2010/08/06	Mid-Flood	DS2	B	5.8	283	0.21	26.77	28.21	59.75	4.08	15.25	7.8	18
2010/08/06	Mid-Flood	DS3	B	5.9	344.5	0.59	26.92	27.42	59.99	4.1	10.4	7.83	12
2010/08/06	Mid-Flood	DS3	B	5.9	302.7	0.39	26.91	27.53	73.55	5.03	10.2	7.85	12
2010/08/06	Mid-Flood	DS4	B	5.7	319.7	0.3	26.94	27.24	55.94	3.83	5.05	7.76	7
2010/08/06	Mid-Flood	DS4	B	5.8	259.2	0.18	26.92	27.31	58.66	4.02	5.76	7.76	6
2010/08/06	Mid-Flood	DS5	B	7	278.5	0.32	26.71	28.06	50.6	3.46	4.75	7.76	10
2010/08/06	Mid-Flood	DS5	B	7.1	283.9	0.22	26.69	28.22	58.73	4.02	4.75	7.75	8
2010/08/06	Mid-Flood	MW1	B	19.2	242.3	0.11	25.06	31.89	44.35	3.05	4.04	7.77	8
2010/08/06	Mid-Flood	MW1	B	18.6	157.2	0.05	25.07	31.87	41.93	2.89	3.64	7.76	8

Summary Table: Impact Water Quality Monitoring for Dredging Activities

Sampling Date	Tide	Station	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temp (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	Suspended Solids (mg/L)
2010/08/06	Mid-Flood	US1	B	5.8	304.1	0.52	27.36	26.36	85.63	5.85	5.25	7.97	9
2010/08/06	Mid-Flood	US1	B	5.9	259.8	0.24	26.93	27.63	67.88	4.64	7.68	7.87	8
2010/08/06	Mid-Flood	US2	B	5.9	305.5	0.36	26.64	28.42	55.23	3.78	9.19	7.82	12
2010/08/06	Mid-Flood	US2	B	5.8	263.8	0.29	26.63	28.48	59.48	4.07	9.29	7.83	14
2010/08/06	Mid-Ebb	DS1	M	3.5	98.4	0.36	26.78	27.41	50.61	3.47	5.35	7.75	11
2010/08/06	Mid-Ebb	DS1	M	3.5	117.1	0.48	27.08	26.76	58.8	4.03	5.86	7.83	12
2010/08/06	Mid-Ebb	DS2	M	3.9	83.2	0.48	26.5	29.3	38.2	2.6	6.26	7.72	10
2010/08/06	Mid-Ebb	DS2	M	4	90.2	0.61	26.63	28.85	41.04	2.8	5.76	7.73	9
2010/08/06	Mid-Ebb	DS3	M	7.5	75	0.31	26.4	29.83	34.79	2.37	9.8	7.7	16
2010/08/06	Mid-Ebb	DS3	M	7.5	45.3	0.17	26.39	29.89	34.09	2.32	11.01	7.7	14
2010/08/06	Mid-Ebb	DS4	M	7.7	46.4	0.14	27.02	27.28	56.26	3.85	4.65	7.81	12
2010/08/06	Mid-Ebb	DS4	M	7.6	64.4	0.34	26.9	27.77	50.91	3.48	5.35	7.77	14
2010/08/06	Mid-Ebb	DS5	M	4.6	102.8	0.37	26.96	27.64	51.43	3.51	4.55	7.78	5
2010/08/06	Mid-Ebb	DS5	M	4.6	101.8	0.33	26.99	27.49	52.76	3.6	4.55	7.78	6
2010/08/06	Mid-Ebb	MW1	M	10.5	67.9	0.27	25.69	30.47	49.94	3.43	2.12	7.82	7
2010/08/06	Mid-Ebb	MW1	M	10.6	42.1	0.2	26.07	29.42	60.29	4.14	1.72	7.89	6
2010/08/06	Mid-Ebb	US1	M	3.9	72.4	0.27	26.6	28.68	38.86	2.65	5.25	7.71	5
2010/08/06	Mid-Ebb	US1	M	3.9	81.2	0.48	26.65	28.56	37.46	2.56	5.05	7.7	7
2010/08/06	Mid-Ebb	US2	M	4	132.8	0.4	26.81	28.09	40.55	2.77	5.45	7.68	8
2010/08/06	Mid-Ebb	US2	M	3.9	121.4	0.37	26.97	27.54	40.86	2.79	4.34	7.7	7
2010/08/06	Mid-Flood	DS1	M	4.9	322.7	0.29	27.53	25.88	91.42	6.25	13.13	7.99	16
2010/08/06	Mid-Flood	DS1	M	4.9	291.3	0.22	27.45	26.04	84.2	5.75	8.28	7.99	14
2010/08/06	Mid-Flood	DS2	M	3.9	294.1	0.28	27.35	26.25	80.02	5.47	6.26	7.95	8
2010/08/06	Mid-Flood	DS2	M	4	305.7	0.37	27.54	25.64	91.68	6.27	6.87	7.99	9
2010/08/06	Mid-Flood	DS3	M	3.9	340.5	0.31	27.6	24.3	79.75	5.49	7.98	7.92	9
2010/08/06	Mid-Flood	DS3	M	4.1	329.8	0.29	27.39	24.77	69.94	4.82	8.18	7.9	10
2010/08/06	Mid-Flood	DS4	M	4.1	333.4	0.02	27.41	25.43	77.9	5.35	5.15	7.85	8
2010/08/06	Mid-Flood	DS4	M	4.2	333.3	0.3	27.79	23.15	80.62	5.57	5.05	7.96	7
2010/08/06	Mid-Flood	DS5	M	4.4	317.5	0.17	27.59	24.37	81.56	5.61	5.66	7.93	8
2010/08/06	Mid-Flood	DS5	M	4.5	279.7	0.1	27.63	24.16	82.48	5.68	5.15	7.93	9
2010/08/06	Mid-Flood	MW1	M	10.7	245	0.18	25.41	31.12	45.46	3.13	3.13	7.8	9
2010/08/06	Mid-Flood	MW1	M	10.4	254.5	0.12	25.45	31.05	44.56	3.06	4.24	7.79	7
2010/08/06	Mid-Flood	US1	M	4	307.3	0.69	28.66	22.77	134.48	9.17	3.74	8.26	8
2010/08/06	Mid-Flood	US1	M	4	291.1	0.37	27.54	25.86	92.12	6.29	4.75	8.01	11
2010/08/06	Mid-Flood	US2	M	3.9	299.3	0.31	26.7	28.26	63.7	4.35	7.37	7.84	12
2010/08/06	Mid-Flood	US2	M	4	259.5	0.21	27.23	26.82	78	5.33	4.04	7.99	10
2010/08/06	Mid-Ebb	DS1	T	1.2	116.5	0.65	27.99	23.35	98.79	6.79	3.94	8.07	7
2010/08/06	Mid-Ebb	DS1	T	1.1	112.6	0.58	27.52	24.95	74.46	5.11	4.65	7.92	9
2010/08/06	Mid-Ebb	DS2	T	1.3	109.3	0.81	28.62	22.03	115.32	7.9	4.75	8.14	9
2010/08/06	Mid-Ebb	DS2	T	1.2	115.1	0.74	27.95	23.85	88.15	6.05	5.56	7.98	8
2010/08/06	Mid-Ebb	DS3	T	1.5	125.3	0.82	28.39	22.55	97.09	6.66	4.44	8.05	8
2010/08/06	Mid-Ebb	DS3	T	1.3	125.1	0.81	28.55	22.19	100.04	6.86	5.25	8.04	9
2010/08/06	Mid-Ebb	DS4	T	1.3	124.3	0.53	28.09	23.37	87.84	6.03	3.94	8.02	10
2010/08/06	Mid-Ebb	DS4	T	1.3	120.9	0.5	28.27	23.21	91.3	6.25	4.85	8	8
2010/08/06	Mid-Ebb	DS5	T	1.1	92.6	0.75	27.8	24.36	89.2	6.12	3.54	7.99	8
2010/08/06	Mid-Ebb	DS5	T	1.2	81.5	0.68	28.41	23.13	96.62	6.6	4.34	8.03	6
2010/08/06	Mid-Ebb	MW1	T	1	84.6	0.46	28.57	19.65	133.39	9.27	2.32	8.4	5
2010/08/06	Mid-Ebb	MW1	T	1.1	55	0.42	28.64	18.51	131.92	9.22	2.32	8.46	3
2010/08/06	Mid-Ebb	US1	T	0.9	119.8	0.62	28.75	20.46	125.17	8.63	4.04	8.22	7
2010/08/06	Mid-Ebb	US1	T	1.2	120.7	0.84	28.31	21.9	109.85	7.57	3.74	8.13	6
2010/08/06	Mid-Ebb	US2	T	1.2	116	0.64	28.58	20.89	125.89	8.69	3.54	8.23	7
2010/08/06	Mid-Ebb	US2	T	1.3	120.3	0.56	28.62	20.4	126.54	8.75	4.44	8.23	6
2010/08/06	Mid-Flood	DS1	T	1.4	315	0.17	29.23	18.7	170.9	11.81	4.85	8.45	9
2010/08/06	Mid-Flood	DS1	T	1.2	314.1	0.19	29.12	18.9	160.67	11.11	5.76	8.41	8
2010/08/06	Mid-Flood	DS2	T	1.2	332.5	0.62	29.12	18.53	159.44	11.05	5.96	8.37	8

Summary Table: Impact Water Quality Monitoring for Dredging Activities

Sampling Date	Tide	Station	Depth	Depth (m)	Current Direction	Current Velocity (m/s)	Water Temp (°C)	Salinity (ppt)	D.O. Saturation (%)	D.O. (mg/L)	Turbidity (NTU)	pH	Suspended Solids (mg/L)
2010/08/06	Mid-Flood	DS2	T	1.3	323.3	0.43	29	18.96	146.32	10.13	5.35	8.34	8
2010/08/06	Mid-Flood	DS3	T	1.2	26.7	0.29	29.04	19.05	160.52	11.11	5.56	8.37	9
2010/08/06	Mid-Flood	DS3	T	1.2	9.9	0.34	28.66	19.74	130.66	9.06	5.45	8.21	10
2010/08/06	Mid-Flood	DS4	T	1.1	348.2	0.35	29.81	16.4	178.27	12.35	7.47	8.55	11
2010/08/06	Mid-Flood	DS4	T	1.2	359.1	0.38	29.49	17.77	168.08	11.62	6.77	8.46	12
2010/08/06	Mid-Flood	DS5	T	1.3	350.8	0.29	29.93	14.55	151.51	10.59	8.69	8.38	12
2010/08/06	Mid-Flood	DS5	T	1.1	351.7	0.23	29.11	17.41	138.12	9.63	7.58	8.22	11
2010/08/06	Mid-Flood	MW1	T	0.9	180	0.01	26.45	28.85	69.71	4.77	1.72	7.92	4
2010/08/06	Mid-Flood	MW1	T	1	158.2	0.09	26.49	28.76	69.93	4.78	1.82	7.92	4
2010/08/06	Mid-Flood	US1	T	1.3	341	0.27	29.02	20.29	154.29	10.6	4.34	8.37	9
2010/08/06	Mid-Flood	US1	T	1.2	311.9	0.39	29.01	19.93	156.69	10.79	4.75	8.39	7
2010/08/06	Mid-Flood	US2	T	1.1	296.6	0.5	29.23	20	164.23	11.27	4.14	8.47	6
2010/08/06	Mid-Flood	US2	T	1.2	348.7	0.58	28.78	22.1	151.89	10.38	4.14	8.34	8