



Table 2-2 Concentrations of Dissolved Copper, Silver and TSS in Samples Collected During Monitoring Event #2 of the Providence River Dredging Monitoring. Samples were collected on 21 May 2003.

Laboratory Sample ID	Sample Location ID	Position in Water Column	Analytical Results		
			Dissolved Ag ($\mu\text{g/L}$)	Dissolved Cu ($\mu\text{g/L}$)	TSS (mg/L)
0305091-07	PRO2 DRG1-T	Surface	<0.5 ^a	1.8	11
0305091-08	PRO2 DRG1-M	Mid-depth	<0.5 ^a	0.71	66
0305091-09	PRO2 DRG1-B	Bottom	<0.5 ^a	0.62	28
0305091-10	PRO 2 CM1-T	Surface	<0.5 ^a	1.8	19
0305091-11	PRO2 CM1-M	Mid-depth	<0.5 ^a	1.7	62
0305091-12	PRO2 CM1-B	Bottom	<0.5 ^a	1.7	69
0305091-04	PRO2 UCR2-T	Surface	<0.5 ^a	1.2	14
0305091-05	PRO2 UCR2-M	Mid-depth	<0.5 ^a	0.71	18
0305091-06	PRO2 UCR2-B	Bottom	<0.5 ^a	0.78	18

^a Measured concentrations were less than the reporting limit for Dissolved Ag of 0.5 $\mu\text{g/L}$.

*Water Quality Standards for the State of Rhode Island for protecting marine organisms from acute toxicity are as follows: Ag - 1.9 $\mu\text{g/L}$; Cu - 4.8 $\mu\text{g/L}$



Table 2-3 Results of the of Sea Urchin (*Arbacia punctulata*) Fertilization Test with Samples Collected During Monitoring Event #2 of the Providence River Dredging Monitoring. Samples were collected on 21 May 2003.

Sample Location ID	Mean % Fertilization
PRO2-DGR-1	99.6
PRO2 UCR-2	99.6
PRO2-CM	99.8
PRO1-195	100
Artificial Seawater Control ^a	98.6
Natural Seawater Control ^b	99.8

^aArtificial seawater control was required since samples were fortified with artificial sea salts to achieve the required salinity of 30 ± 2 ppt.

^bNatural seawater control is the standard laboratory control.



Table 2-4. Results of the of Sea Urchin (*Arbacia punctulata*) Embryo Survival and Development Test with Samples Collected During Monitoring Event #2 of the Providence River Dredging Monitoring. Samples were collected on 21 May 2003.

Sample Location ID	Mean % Normal Embryo Development	Mean % Embryo Survival
PRO2 DRG1	90.2	86
PRO2-UCR2	93.8	96
PRO2 CM	89.2*	100
PRO2 195	88	94
Artificial Seawater Control	93.6	96
Natural Seawater Control	93.4	100

^aArtificial seawater control was required since samples were fortified with artificial sea salts to achieve the required salinity of 30 ± 2 ppt.

^bNatural seawater control is the standard laboratory control.

*Indicates a statistically significant reduction ($P < 0.05$) in the response relative to the corresponding response in the reference sample.