**Appendix C. Table 7. Copper - Phase II APMP Freshwater Results at Brynes Irrigation Canal, 2003.**

| StationCode | StationName | SampleDate | MediumName | ApplicationTime | Units | SampleTypeCode | StationTreatment | Species | TestDuration | Alkalinity | Chlorophyll a | Conductivity | Ca, Dissolved | Mg, dissolved | Na, Dissolved | Cu, Dissolved | Cu, Total | DO | Hardness | Total Ammonia | pH | Total Kjeldahl Nitrogen | Total Nitrogen | Total Phosphorus | TSS | Reproduction | Percent Survival |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | mg/L | mg/m3 | µS/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L | mg/L N | pH | mg/L | mg/L | mg/L | mg/L | neonates/adult | % |
| Control | Lab Control | | Freshwater | NA | NA | Grab | Reference | Ceriodaphnia dubia | 2 days | | | | | | | | | | | | | | | | | | 100 |
| BC-01 | Brynes Irrigation Canal | 5/1/2003 | Freshwater | Pre-App | NA | Grab | Treated | Ceriodaphnia dubia | 2 days | | | 287 | | | | | | 10 | | | 8.44 | | | | | | SIGM 60 |
| Control | Lab Control | | Freshwater | NA | NA | Grab | Reference | Ceriodaphnia dubia | 6 days | | | | | | | | | | | | | | | | | 19.1 | 100 |
| BC-01 | Brynes Irrigation Canal | 5/1/2003 | Freshwater | Pre-App | NA | Grab | Treated | Ceriodaphnia dubia | 6 days | | | | | | | | | | | | | | | | | 1.8 | SIGM 30 |
| Control | Lab Control | | Freshwater | NA | NA | Grab | Reference | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | 95 |
| BC-01 | Brynes Irrigation Canal | 5/1/2003 | Freshwater | Pre-App | NA | Grab | Treated | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | 100 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | Pre-App | NA | Grab | Treated | | | 153 | <RL | | 19.1 | 29 | 6.83 | 0.0066 | 0.0082 | | 165 | <RL | | | 0.515 | <RL | 5.5 | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 0.08 | hours | Grab | Treated | | | | | | | | | 0.85 | 0.96 | | | | | | | | | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 0.17 | hours | Grab | Treated | | | | | | | | | 1.2 | 1.33 | | | | | | | | | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 0.25 | hours | Grab | Treated | | | | | | | | | 1.43 | 1.66 | | | | | | | | | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 0.5 | hours | Grab | Treated | | | 153 | <RL | | 19.1 | 28.8 | 6.87 | 0.86 | 1.02 | | 161 | | | | 1.4 | <RL | 5.9 | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 0.5 | hours | Duplicate | Treated | | | 155 | | | 19.1 | 28.9 | 6.81 | 0.86 | 1.03 | | 161 | | | | 1.6 | <RL | 6 | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 0.5 | hours | FieldBlank | Treated | | | <RL | | | <RL | <RL | 0.79 | <RL | < RL | | <RL | | | | <RL | <RL | <RL | | |
| Control | Lab Control | | Freshwater | NA | NA | Grab | Reference | Ceriodaphnia dubia | 2 days | | | | | | | | | | | | | | | | | | 100 |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 1.5 | hours | Grab | Treated | Ceriodaphnia dubia | 2 days | | | 294 | | | | | | 9.8 | | <RL | 8.54 | | | | | | SIGM 0 |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 1.5 | hours | Duplicate | Treated | Ceriodaphnia dubia | 2 days | | | 288 | | | | | | 9.7 | | <RL | 8.52 | | | | | | SIGM 0 |
| Control | Lab Control | | Freshwater | NA | NA | Grab | Reference | Ceriodaphnia dubia | 6 days | | | | | | | | | | | | | | | | | 19.1 | 100 |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 0.5 | hours | Grab | Treated | Ceriodaphnia dubia | 6 days | | | | | | | | | | | | | | | | | 0 | SIGM 0 |
| Control | Lab Control | | Freshwater | NA | NA | Grab | Reference | Ceriodaphnia dubia | 6 days | | | | | | | | | | | | | | | | | 19.1 | 100 |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 0.5 | hours | Duplicate | Treated | Ceriodaphnia dubia | 6 days | | | | | | | | | | | | | | | | | 0 | SIGM 0 |
| Control | Lab Control | | Freshwater | NA | NA | Grab | Reference | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | 95 |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 0.5 | hours | Grab | Treated | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | SIGM 0 |
| Control | Lab Control | | Freshwater | NA | NA | Grab | Reference | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | 95 |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 0.5 | hours | Duplicate | Treated | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | SIGM 0 |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 2.58 | hours | Grab | Treated | | | | | | | | | 0.0091 | 0.0085 | | | | | | | | | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 2.67 | hours | Grab | Treated | | | | | | | | | 0.0053 | 0.0061 | | | | | | | | | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 2.92 | hours | Grab | Treated | | | | | | | | | 0.0042 | 0.0048 | | | | | | | | | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 3.18 | hours | Grab | Treated | | | | | | | | | 0.0108 | 0.014 | | | | | | | | | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 3.5 | hours | Grab | Treated | | | | | | | | | 0.7 | 0.85 | | | | | | | | | | |
| BC-01 | Brynes Irrigation Canal | 6/30/2003 | Freshwater | 4.28 | hours | Grab | Treated | | | | | | | | | 0.0988 | 0.124 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | Pre-App | | Grab | Treated | | | 149 | | | 20 | 29.6 | 8.83 | 0.0059 | 0.0116 | | 162 | | | 0.28 | 0.34 | 0.016 | 20 | | |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | Pre-App | | FieldBlank | Treated | | | ND | | | ND | 0.02 | ND | 0.0004 | ND | | ND | | | ND | 0.13 | ND | ND | | |
| Control | Lab Control | | Freshwater | NA | | Grab | Reference | Ceriodaphnia dubia | 2 days | | | | | | | | | | | | | | | | | | 100 |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | Pre-App | | Grab | Treated | Ceriodaphnia dubia | 2 days | | | | | | | | | | | | | | | | | | 100 |
| Control | Lab Control | | Freshwater | NA | | Grab | Reference | Ceriodaphnia dubia | 6 days | | | | | | | | | | | | | | | | | 29.9 | 100 |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | Pre-App | | Grab | Treated | Ceriodaphnia dubia | 6 days | | | 268 | | | | | | 11.4 | | ND | 9.25 | | | | | SIGR 6.9 | 100 |
| Control | Lab Control | | Freshwater | NA | | Grab | Reference | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | 100 |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | Pre-App | | Grab | Treated | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | 100 |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | 11 | hours | Grab | Treated | | | 149 | | | 19.8 | 30.1 | 8.86 | 0.0164 | 0.0272 | | 161 | | | 0.38 | 0.42 | 0.0195 | 18.9 | | |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | 11 | hours | Duplicate | Treated | | | 150 | | 266 | 19.3 | 29.6 | 8.92 | 0.017 | 0.0311 | 11.6 | 160 | ND | 9.38 | 0.42 | 0.48 | 0.0167 | 20.5 | | |
| Control | Lab Control | | Freshwater | NA | | Grab | Reference | Ceriodaphnia dubia | 2 days | | | | | | | | | | | | | | | | | | 100 |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | 11 | hours | Grab | Treated | Ceriodaphnia dubia | 2 days | | | | | | | | | | | | | | | | | | 100 |
| Control | Lab Control | | Freshwater | NA | | Grab | Reference | Ceriodaphnia dubia | 2 days | | | | | | | | | | | | | | | | | | 100 |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | 11 | hours | Duplicate | Treated | Ceriodaphnia dubia | 2 days | | | | | | | | | | | | | | | | | | 100 |
| Control | Lab Control | | Freshwater | NA | | Grab | Reference | Ceriodaphnia dubia | 6 days | | | | | | | | | | | | | | | | | 29.9 | 100 |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | 11 | hours | Grab | Treated | Ceriodaphnia dubia | 6 days | | | 268 | | | | | | 10.8 | | ND | 9.32 | | | | | 1.4 | SIGM 50 |
| Control | Lab Control | | Freshwater | NA | | Grab | Reference | Ceriodaphnia dubia | 6 days | | | | | | | | | | | | | | | | | 29.9 | 100 |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | 11 | hours | Duplicate | Treated | Ceriodaphnia dubia | 6 days | | | | | | | | | | | | | | | | | 3 | SIGM 60 |
| Control | Lab Control | | Freshwater | NA | | Grab | Reference | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | 100 |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | 11 | hours | Grab | Treated | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | 100 |
| Control | Lab Control | | Freshwater | NA | | Grab | Reference | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | 100 |
| BC-01 | Brynes Irrigation Canal | 8/25/2003 | Freshwater | 11 | hours | Duplicate | Treated | Oncorhynchus mykiss | 4 days | | | | | | | | | | | | | | | | | | 100 |